

# Harold William Thimbleby

BSc MSc PhD Hon.FRSA FIET CEng

*January 3, 2012*

- **Prolific researcher** Recent book on user interface design, *Press On* (MIT Press) was 2007 winner of the Association of American Publishers Publishing Awards for Excellence Competition in the Computer and Information Sciences category. Royal Society-Leverhulme Trust Senior Research Fellow, 2008–2009; Royal Society-Wolfson Research Merit Award Holder, 2001–2006. Awarded the British Computer Society Wilkes Medal for a paper in the *Computer Journal*. Has 535 publications, of which 239 are refereed and 213 invited.
- **Team builder** Founded Swansea University Research Forum. Previously, founded University College London Interaction Centre (UCLIC) in November 2001, and was Director to 2005.
- **International reputation** Visiting positions in Canada, New Zealand and South Africa, *etc.* On numerous international editorial boards and conference committees. Presented 49 national and international keynotes, including first German Software Ergonomics conference, first International Handheld and Ubiquitous Computing Conference, first Asia-Pacific Conference on Human-Computer Interaction, *etc.*
- **Excellent speaker** Over 383 seminars and presentations (including at Cambridge, Harvard, MIT, Oxford, Royal Institution, Royal Society, Stanford and the House of Lords) in 22 different countries.
- **Advancing public understanding of science** 28<sup>th</sup>. Gresham Professor of Geometry. Widely interviewed and reported in the media. Largest post-bag ever for a *New Scientist* feature article. Presented at many international science festivals in UK and internationally, and at the Royal Society Summer Science Exhibition.

## Personal details

**Work address** Department of Computer Science,  
University of Wales Swansea,  
Singleton Park,  
SWANSEA,  
SA2 8PP.

**Email** harold@thimbleby.net

**URL** <http://harold.thimbleby.net>

**Date of birth** 19 July 1955

## Contents

- 1 **Appointments ... page 3**  
Current • Previous • Visiting positions.
- 2 **Qualifications ... 3**
- 3 **Professional profile ... 4**  
Professional society membership • Editorial board memberships  
International committee memberships • National committee memberships  
Government (OST/DTI) committees etc • Conference and workshop committees  
External professorial & readership assessment • Internal committees  
Grants funded • Prizes • Courses and consultancies • Refereeing  
School governing.
- 4 **Publications ... 8**  
Publications: refereed • Publications: not refereed  
Books, other papers, patents, etc: not refereed • Unpublished working papers  
Discussion papers, etc. • Commissioned material.
- 5 **Other outputs ... 34**  
Other conference presentations  
Unpublished conference posters/demonstrations • Software • Seminars  
Public events & lectures • Debates • Web sites • Media.
- 6 **Teaching profile ... 44**  
Research supervision and examining • Teaching and examining.

## 1 Appointments

### 1.1 Current

Professor of Computer Science, University of Wales Swansea.  
 Visiting Professor: University College London and Middlesex University.  
 Emeritus Gresham Professor of Geometry, Gresham College.

### 1.2 Previous

Royal Society-Leverhulme Trust Senior Research Fellow, 2008–2009.  
 Royal Society-Wolfson Research Merit Award Holder, 2001–2006.  
 Gresham Professor of Geometry, Gresham College, London, 2001–2004.  
 Swansea University:  
   Director of Research, Department of Computer Science 2005–2008.  
 Professor of Human Interaction with Systems, University College London:  
   Director of UCL Interaction Centre, UCLIC, 2001–2004.  
 Professor of Computing Research and Senior Manager, Middlesex University: 1994–2001.  
   Senior Research Fellow, 2000–2001.  
   Director of Research, Computing Science, 1997–2000.  
   Director of Research, Faculty of Technology, 1995–1997.  
 Professor of Information Technology, Stirling University, 1988–1994.  
   Department of Psychology, 1993–1994.  
   Department of Computing Science, 1988–1993.  
   Research Chair funded by Central Regional Council, Scotland.  
 Tenured Lecturer in Computer Science, University of York, 1982–1988.  
 Lecturer in Computer Science, Queen Mary College, London University, 1980–1982.  
 Demonstrator in Computer Science, Queen Mary College, 1979–1980.  
 Research Assistant, Eidgenössische Technische Hochschule, Zürich, 1979.  
 Chief Programmer, Royal College of Art, 1977.

### 1.3 Visiting positions

Visiting Professor, University of Cape Town, South Africa, 2000.  
 Distinguished Visiting Academic, Royal Melbourne Institute of Technology, Australia, 1998.  
 Erskine Fellow, University of Canterbury, Christchurch, New Zealand, 1997.  
 Research Scientist, Canon Research Europe, UK, 1991.  
 International Research Scientist, University of Calgary, Canada, 1991.  
 Visiting Professor, Department of Computer Science, University of Calgary, Canada, 1986.

## 2 Qualifications

PhD (Computer Science) 1981, London University.  
 MSc (Computer Science) 1977, Queen Mary College, London University.  
 BSc (Physics) 1976, Queen Elizabeth College, London University.  
 Rugby, 1968–1973. (Top in UK for Physics A and S level.)

## 3 Professional profile

### 3.1 Professional society membership

Honorary Fellow of the Royal Society of Arts.

HonFRSA unanimously nominated by RSA Council, 2001 on.

FRSA nominated by RSA Council, 1990.

Fellow Institute Engineering and Technology, 1996.

Chartered Engineer: CEng.

Freeman of the Worshipful Company of Information Technologists.

Honorary Member of the Real Time Club (2000).

Life member of the Gresham Society.

Member American Association for the Advancement of Science (AAAS).

### 3.2 Editorial board memberships

Current editorial posts: *Interacting with Computers*, 2004–. *The Journal of Designing in China*, 2011–. *Interaction Science Transactions*, 2011–; *Personal and Ubiquitous Computing*, 19XX–.

Founding member: *HCI Abstracts*; *HCI Letters*; *Interaction Science Transactions*; *International Journal of Applied Intelligence*; *Personal and Ubiquitous Computing* (formerly *Journal of Personal Technologies*); and *Cambridge University Press Series on Human Computer Interaction*.

Previous editorial board member: *International Journal of Human-Computer Studies* (formerly *International Journal of Man-Machine Studies*), 1989–2004. Academic Director/Editorial board member: *usableTV*, *ApplianceDesign*.

### 3.3 International committee memberships

Member of IFIP WG 9.2 (Social Accountability of Computing) and IFIP SIG 9.2.2 (Framework on Ethics), 1997–present. Member IFIP WG 2.7/13.4 (User Interface Engineering) since 2011. Honorary member WG 9.2, since 2011.

### 3.4 National committee memberships

Clinical Human Factors Group (CHFG, [www.chfg.org](http://www.chfg.org)), trustee & standing group member, 2011–present. UK Computing Research Committee, 2007–present. Board of Informing Health Care (Welsh NHS), 2007–2011 (disbanded after merging with NHS Wales Informatics Service). Royal Society International Conference Grants and Short Visits Panel 1: Pure and Applied Maths, Computer Science, 2005–2010. Royal Society North America short visit scheme assessments, 2007–2009. Royal Society-Leverhulme Trust Senior Research Fellowships, 2004–2009. EPSRC (Engineering and Physical Sciences Research Council) peer review college, 1994–present.

PITCOM (Parliamentary Information Technology Committee), since 1994; on Council 1998–1999; Programme Committee 1999–present. British Computer Society Ethics Committee, since 1999.

International Fellow of CIRCUIA, ESRC network.

EPSRC IT & CS Programme Area Review team member, since 1999. Member of CPHC Research Strategy Panel for HCI, 2000. IEE Informatics Divisional Board (1997–1999). Institution of Electrical Engineers Committee A10 (1995–1999) (previously IEE Committee C10). Church of England Working Party on Information Technology. ESRC/MRC/SERC Joint Research Council Training Panel (1988–1994). Institution of Electrical Engineers Committee C5 (1982–1990). NHS Scottish Medical Efficiency Group Committee (1989–1990). *etc.*

### 3.5 Government (OST/DTI) committees etc

2006: OST Futures workshop. DTI 2020: Workshop — Science and Innovation.

### 3.6 Conference and workshop committees

*Partial list. List excludes session chairs, panels and conferences organised at Swansea, UCL, Gresham College, etc.*

**2012:** Intelligent Environments for Healthcare and Well-Being 2012. **2011:** USAB2011 Information Quality in eHealth, Formal Methods for Interactive Systems (FMIS) 2011. INTERACT 2011; 13th IFIP Conference on HCI. ACM SIGCHI Symposium on Engineering Interactive Computing Systems, EICS 2011. EICS4Med - Engineering Interactive Computing Systems for Medicine and Health Care. 5th International Conference on Pervasive Computing Technologies for Healthcare. **2010:** 24th BCS International Conference on Human Computer Interaction, BCS HCI2010. Information Quality in eHealth (USAB 2011, 7th Symposium of the WG HCI&UE of the Austrian Computer Society). ACM SIGCHI Symposium on Engineering Interactive Computing Systems, EICS 2010. USAB 2010: HCI in Work & Learning, Life & Leisure, 6th Symposium of the WG HCI&UE of the Austrian Computer Society. **2009:** 3rd International Workshop on Formal Methods for Interactive Systems, FMIS 2009. **2008:** Design, Specification and Verification of Interactive Systems, DSVIS2008. Human-Computer Interaction & Usability for Elderly. **2007:** Design, Specification and Verification of Interactive Systems, DSVIS2007. 2nd International Workshop on Formal Methods for Interactive Systems, FMIS 2007. **2006:** Design, Specification and Verification of Interactive Systems, DSVIS2006. World Wide Web Conference, 2006. **2004:** 7th International Conference of Asian Digital Libraries (ICADL2004). 3rd International Conference on Entertainment Computing (ICEC 2004), 2004. Ubiconf 2004, chair. **2003:** First Appliance Design Conference, 1AD. First European iTV conference. **2002:** South African Institute of Computer Scientists and Information Technologists Annual Conference, SAICSIT 2002. Fifth International Conference on Asian Digital Libraries: ICADL'02. **2001:** Design, Specification and Verification of Interactive Systems: DSVIS2001. South African Institute of Computer Scientists and Information Technologists Annual Conference, SAICSIT 2001. **1999:** DEXA'99 (Database and Expert Systems Applications). **1998:** Designing Effective and Usable Multimedia Systems, IFIP 13.2 Working Conference. Complex Systems, Intelligent Systems, and Interfaces'98, Nimes. IEEE Multimedia Systems'98. DEXA'98, Vienna. **1997:** IEE Committee, "20/20 Vision: Morality in the Information Society." IEE Colloquium on Networked Computers. Chair, BCS Conference HCI'97. **1996:** Short papers editor, BCS Conference HCI'96. International Programme Committee, First Asia Pacific Conference on Human Computer Interaction, Singapore. International Programme Committee, Conference on Interface to Real and Virtual Worlds V, Informatique'96, Montpellier. **1995:** DEXA'95, London. International Programme Committee, Conference on Interface to Real and Virtual Worlds IV, Informatique'95, Montpellier. **1994:** First Symposium on Human Interaction with Complex Systems, Greensboro (European representative). **1993:** International Programme Committee, Conference on Interface to Real and Virtual Worlds II, Informatique'93, Montpellier. **1992:** International Programme Committee, Conference on Interface to Real and Virtual Worlds, Informatique'92, Montpellier. **1991:** PhD Programme, HCI'91. IEE Evening Lecture. **1990:** IEE Colloquium on Computer Supported Cooperative Work. IEE Colloquium on Computer Viruses. Interact'90 Technical Committee, Cambridge. **1989:** Scottish HCI Visions. IEE Colloquium on Formal methods in Human Computer Interaction III. **1988:** Alvey Workshop in Models of Graphical User Interfaces. IEE Colloquium on Formal Methods in Human Computer Interaction II. **1987:** IEE Colloquium on Formal Methods in Human Computer Interaction. **1986:** Principal Referee, HCI'86.

### 3.7 External professorial & readership assessment

*Professorial* Middlesex University, 2002.  
Huddersfield University, 2000.  
Middlesex University Professorial and Readership Committee, 1994–2000.

*Readership* Kingston University, 2001.

### 3.8 Internal committees

**UCL:** Member and/or chair of normal UCL academic and departmental committees. Member Management Committee for Centre for Systems Engineering (UCLse). **Middlesex:** Chair or

member of various University Committees: e.g., Research Degrees Committee, University Research Committee, *etc.* Faculty Management Team, Faculty Research Committee Chair, Chair Computer Users' Committee. Member of various academic and departmental committees. Advisor of Studies. Careers Advisor (1988–1993). *etc.*

### 3.9 Grants funded

eHealth Industries Innovation Centre (ehi<sup>2</sup>), with David Ford, John Williams, et al., Welsh Assembly Government, £446,002, 2010.

Principal investigator with 6 co-Is, Swansea University :: Bringing People Together, EPSRC funded (EP/I00145X/1, £965,708.17) 2010.

USA research trip: San Francisco, Pittsburgh, San Diego, Houston, EPSRC funded (EP/H017895/1, £18,529) 2009.

Programme Grant: CHI+MED: Multidisciplinary Computer-Human Interaction research for the design and safe use of interactive medical devices, with UCL (Prof Ann Blandford) and QM (Dr Paul Curzon), EPSRC funded (EP/G059063/1, £6,772,571) 2009–2015.

Royal Society-Leverhulme Trust: Senior Research Fellowship, (£31,638) 2008/9.

Point of care nanotechnology for early blood clot detection and characterisation in disease screening, theranostic and self monitoring applications, with Engineering (Prof Rhodri Williams), EPSRC funded (EP/G061882/1, £1,078,563).

Platform Grant, Healthy interactive systems for healthcare, EPSRC funded (EP/G003971/1, £431,076), 2009–2014.

A state of the art information-driven health care demonstrator: Combining advanced technologies in the gastro-intestinal field, EPSRC funded (EP/F059116/1, £212,695), 2008–2011.

Microsoft Research Studentship, (£66,000) 2008–2011.

Formally-based tools for user interface analysis and design, EPSRC funded (EP/F020031/1, £711,273), 2008–2011.

Visiting Fellowship — David Bainbridge, with **M. Jones**, EPSRC funded (EP/F002327/1, £24,590), 2007.

Royal Academy of Engineering International Travel Grant, £600, 2007.

Royal Society Travel Grant, £825, 2006.

Weapons of maths construction at the Royal Society Summer Science Exhibition 2005, EPSRC funded (EP/D029821/1, £19,934) 2005.

Visiting Fellowship (for Dr. M Jones) (GR/T06216/01: £5,740), 2004.

Interact Japan, EPSRC funded (GR/S73143/01: £17,425), 2004.

Platform Grant, EPSRC funded (GR/S73723/01: £264,002), 2004; with Drs. A. Blandford, P. Cairns and J. Dowell.

Support for the First International Conference on Appliance Design (1AD) (GR/S55118/01: £3,500), 2003.

Indo-UK N+N workshops in ubiquitous computing 2002–3, EPSRC funded (GR/S08824/01: £67,858), 2003.

US Trip, EPSRC funded (GR/R71467/01: £4,890), 2001.

Royal Society-Wolfson Research Merit Award (£375,000), 2001–2006.

Personal Systems & Appliances Design Network, with P. Thomas, EPSRC funded (GR/N66513: £56,725), 2001–2002.

Interactive TV (iTV) Design Network, EPSRC funded (GR/N39166: £51,792), 2000–2002.

International Travel Fellowship, Royal Society (£2,500), 2000.

Interaction Modelling for the Design of Digital Libraries, with A. Blandford, EPSRC funded (GR/M81748: £127,489), 1999–2002.

Digital Library, with A. Blandford, Middlesex University funded (£70,000), 1998.

Human Factors in Medical Uses of Virtual Reality, with P. Passmore, Middlesex University funded (£55,000), 1998.

Internet Ethics, Middlesex University funded (£22,000), 1997.

Erskine Fellowship (Fellowship to visit University of Canterbury, New Zealand), 1997.  
 Interaction Design, Middlesex University (£8,700), 1996.  
 Visiting Fellowship for I. H. Witten (Waikato University), EPSRC funded (GR/L15773/01: £2,473), 1996.  
 Design and Evaluation of Tools and Guidelines for Hypermedia, EPSRC funded (GR/K79376: £239,763), 1996.  
 Usability, Graph Theory and Manuals, SERC funded (GR/J43110/01, £46,000), 1993.  
 International Visitor Fellowship, Waikato University, New Zealand (1993).  
 International Scientific Exchange Award, Canada (1991).  
 Royal Society travel grants (1982, 1983, 1986, 1990).  
 British Council travel grants (1986, 1990).  
 Natural Sciences and Engineering Research Council of Canada Scholarship (1986).  
 Calgary University Scholarship (1986).  
 Distributed Databases, Church of Scotland (£1,000), 1990.  
 Visiting Fellowship for Prof. I. H. Witten (Calgary University), (GR/F/60601: £2,351), 1989.  
 Pump-priming, Stirling University funded (£30,400), 1989.  
 Visit to Calgary University, SERC funded (GR/E/99949: £959), 1988.  
 Formal Specification Linked with Evaluation in The Iterative Design of Interactive Systems, with M. D. Harrison, C. Runciman, A. F. Monk, N. V. Hammond. SERC funded (GR/E/26945: £151,125), 1987.  
 Mechanisms for Specification, Implementation and Evaluation of Interactive Systems, with M. D. Harrison, C. Runciman, A. F. Monk, N. V. Hammond. Alvey funded (GR/D/02317: £134,224), 1985.  
 A High Level Interface Processor, SERC funded (GR/C/59932: £30,914), 1984.

### 3.10 Prizes

*Press On*, Winner, Computer and Information Sciences category, 2007 Professional/Scholarly Publishing Awards for Excellence Competition presented by the Association of American Publishers, Inc.  
 ACM Ted Nelson Newcomer Award, 2004, joint with G. Buchanan and A. Blandford.  
 Toshiba Year of Invention Award (finalist), with D. J. Pullinger, 1992.  
 British Computer Society Wilkes Medal, 1987.  
 Various minor prizes.

### 3.11 Courses and consultancies

Invited to present evidence to House of Lords e-commerce enquiry (2000). Courses and consultancy in all aspects of Internet, World Wide Web, Unix, programming (both general and specific languages), typesetting, Human Computer Interaction, computer security, computer viruses, 3D vision. Developed course material for several teaching companies. BBC Radio staff training (May 1993).

#### 3.11.1 Consultancies

Aldus; Alper Systems; Andersen Consulting (Oslo); Apple Computer, AHRB (UK Arts and Humanities Research Board); BT (British Telecom); Canon Research Europe; Canon Audio; Central Regional Council; Cybernovation Technologies; Domino Amjet; Dorling Kindersley; EPSRC (UK Engineering and Physical Sciences Research Council); European Union DGXIII; Ferguson; Four Square (Mars); Greater Glasgow Health Board; Honeywell; ICL; Infospec; Instruction Set; ITT; Jaguar; Logica; MITRE (Copenhagen); Philips; Quantel; Reactive Systems; Royal College of Art; Seymour/Powell; Sharp Research Europe; STC; Systems Simulation; Tannoy; The Evaluation Partnership; Thomson Computers; Yard. *Beta-Testing*: In addition to product evaluation (e.g., for Bang & Olufsen, JVC, Ferguson, etc) and consultancy, have

beta-tested systems for various manufacturers, including MetroWorks (Java), Apple (HyperCard), Digitool (LISP) and Wolfram (Mathematica).

### 3.11.2 Main external courses

Effective and enjoyable research in HCI, BCS HCI Conference, 2004. Public Key Cryptography, Ethicomp, International Conference on the Social and Ethical Impacts of Information and Communication Technologies, 1999. Autostereograms: How they work, How to program them, EuroGraphics'96.† Autostereograms, Informatique'95, 1995. New Approaches to User Interface Design, HCI'93, 1993. User Interface Design: Criticism & Creativity, Interface to Real & Virtual Worlds II, Montpellier, 1993. [Notes only; course cancelled.] Human-Computer Interaction, European Graphics Conference, Cambridge, 1992. Computer Viruses, IT Management Group, Central Regional Council, 1992. User Interface Design, Interface to Real & Virtual Worlds, Montpellier, 1992. Computer Viruses, Central Regional Council, Scotland, 1992. Computer Viruses, Heriot-Watt, November 1990. HCI, Heriot-Watt, August 1990. Computer Viruses, Heriot Watt University, March 1990. Formal HCI, Heriot Watt University, April 1989. HCI courses, Scottish HCI Centre, 1989. HCI courses, University of York, 1982–1986.

Taught many Unix courses to industry (covering C, YACC, troff, device drivers, etc), both in the UK and Europe. Also wrote course material for The Instruction Set (London) etc.

### 3.12 Refereeing

Numerous conferences, plus...

#### *Proposals:*

Alvey; CNA; European Research Council (ERC); Foundation for Research, Science and Technology (New Zealand); JCI (Joint Research Councils Initiative, UK); Leverhulme Trust; MRC; NATO; NSF (National Science Foundation, USA); Nuffield Foundation; Office of the Chief Scientist, Scotland; Royal Society; Royal Society of New Zealand (inc. Marsden Fund since 1997); SERC & EPSRC; South African National Research Foundation; etc.

#### *Journals:*

ACM SIGART Bulletin; ACM Transactions on Computer-Human Interaction (TOCHI); Applied Intelligence; Automated Software Engineering journal; Behaviour and Information Technology; Communications of the ACM; Computer Graphics Forum; Computer Journal; Computers and Digital Techniques; Electronic Publishing; Ergonomics; Formal Aspects of Computing; Human Computer Interaction Journal, Information and Software Technology; IEE Proceedings; IEEE Computer; IEEE Software; Interacting with Computers; International Journal of Applied Intelligence; International Journal of Man–Machine Studies; The Journal of Strategic IT; Software Engineering Journal; Scanning Microscopy Journal; Science & Christian Belief; Software—Practice and Experience; etc ... also reviewed for the Literate Programming column in Communications of the ACM.

#### *Books:*

Academic Press; Addison-Wesley; Blackwells; Butterworths; Cambridge University Press; Conference of Professors and Heads of Computing Distinguished Dissertations Scheme; Ellis-Horwood; Encyclopædia Britannica; Immediate Publishing; John Wiley; McGraw-Hill; Morgan Kaufmann; Oxford University Press; Prentice Hall; Simon & Schuster; Springer; ... also for many conferences.

### 3.13 School governing

Governor of St. Alban's School, 1998–2002.

## 4 Publications

Selected important publications are indicated by a marginal star, ★. Some 213 invited publications are indicated by †. The main author is in **bold** unless Thimbleby or equally co-authored.

## 4.1 Publications: refereed

### 4.1.1 Journal papers: refereed

1. H. Thimbleby, “Heedless Programming: Ignoring Detectable Error is a Widespread Hazard,” *Software — Practice & Experience*, in press.
2. G. Buchanan, **J. Pearson** and H. Thimbleby, “The Digital Reading Desk: A Lightweight Approach to Digital Note-taking,” *Interacting with Computers*, in press.
3. H. Thimbleby, “Think! Interactive Systems Need Safety Locks,” *Journal of Computing and Information Technology*, **18**(4), pp. 349–360, doi:10.2498/cit.1001921, 2010.
4. H. Thimbleby, “Signposting in documents,” *Computer Journal*, **54**(7), pp. 1119–1135, OUP, doi:10.1093/comjnl/bxq061, 2010.
5. **P. Cairns and H. Thimbleby**, “Reducing Number Entry Errors: Solving a Widespread, Serious Problem,” *Journal Royal Society Interface*, **7**(51), pp. 1429–1439, doi:10.1098/rsif.2010.0112, 2010. ★
6. H. Thimbleby, “Avoiding Latent Design Conditions Using UI Discovery Tools,” *International Journal of Human-Computer Studies*, **26**(2), pp. 1–12, doi:10.1080/10447310903498692, 2010.
7. **P. Cairns and H. Thimbleby**, “Affordance and Symmetry in User Interfaces,” *Computer Journal*, **51**(6), pp. 650–661, doi:10.1093/comjnl/bxm102, 2008. ★
8. H. Thimbleby, “Robot ethics? Not yet. A reflection on Whitby’s “Sometimes it’s hard to be a robot”,” *Interacting with Computers*, **20**(3), pp. 338–341, doi:10.1016/j.intcom.2008.02.006, 2008.†
9. **H. Thimbleby**, “User Interface Design with Matrix Algebra,” *ACM Transactions on Computer-Human Interaction*, **11**(2), pp. 181–236, doi:10.1145/1005361.1005364, 2004. ★
10. H. Thimbleby, “The Reduced Enigma,” *Computers & Security*, **22**(7), pp. 624–642, doi:10.1016/S0167-4048(03)00712-0, 2003.
11. H. Thimbleby, “The Directed Chinese Postman Problem,” *Software — Practice & Experience*, **33**(11), pp. 1081–1096, doi:10.1002/spe.540, 2003.
12. **H. Thimbleby**, “Explaining Code for Publication,” *Software — Practice & Experience*, **33**(10), pp. 975–1001, doi:10.1002/spe.537, 2003. ★
13. O. Nevalainen, T. Raita and H. Thimbleby, “An Improved Insert Sort Algorithm,” *Software — Practice & Experience*, **33**(10), pp. 909–1001, 2003.
14. G. Buchanan, **M. Jones** and H. Thimbleby, “Improving Web Search on Small Screen Devices,” *Interacting with Computers*, **15**(4), pp. 479–495, doi:10.1016/S0953-5438(03)00036-5, 2003.†
15. T. Bell, M. Fellows, N. Koblitz, M. Powell, H. Thimbleby and I. Witten, “Explaining Cryptographic Systems,” *Computers & Education*, **40**(3), pp. 199–215, doi:10.1016/S0360-1315(02)00102-1, 2003.
16. P. Gillary, M. Jones, **G. Marsden** and H. Thimbleby, “Data Structures in the Design of Interfaces,” *Personal and Ubiquitous Computing*, **6**(2), pp. 132–140, 2002.
17. M. Jones and H. Thimbleby, “Obituary for a Fax,” *Personal Technologies*, **6**(2), pp. 151–152, 2002.
18. S. O. Anderson, P. A. Cairns and H. Thimbleby, “Reply to ‘Comment on “A Framework for Modelling Trojans and Computer Virus Infection”, by E. Mäkinen,” *Computer Journal*, **44**(4), pp. 324–325, 2001.†
19. **P. Cairns, M. Jones and H. Thimbleby**, “Usability Analysis with Markov Models,” *ACM Transactions on Computer-Human Interaction*, **8**(2), pp. 99–132, 2001. ★
20. H. Thimbleby, “Permissive User Interfaces,” *International Journal of Human-Computer Studies*, **54**(3), pp. 333–350, 2001.

21. **G. Marsden** and H. Thimbleby, "Holistic Programming Environments," *South African Computer Journal*, **26**, pp. 237–241, 2000.
22. **H. Thimbleby**, "Calculators are Needlessly Bad," *International Journal of Human-Computer Studies*, **52(6)**, pp. 1031–1069, 2000. ★
23. H. Thimbleby, "Specification-led Design for Interface Simulation, Collecting Use-data, Interactive Help, Writing Manuals, Analysis, Comparing Alternative Designs, etc," *Personal Technologies*, **4(2)**, pp. 241–254, 1999.
24. H. Thimbleby, "A Critique of Java," *Software — Practice & Experience*, **29(5)**, pp. 457–478, 1999.
25. S. O. Anderson, P. Cairns and H. Thimbleby, "A Framework for Modelling Trojans and Computer Virus Infection," *Computer Journal*, **41(7)**, pp. 444–458, 1999.
26. H. Thimbleby, "Design Aloud: A Designer-Centred Design (DCD) Method," *HCI Letters*, **1(1)**, pp. 45–50, 1998.
27. H. Thimbleby, "Personal Boundaries and Global Stage," *First Monday*, **3(3)**, 1998.
28. **Y. L. Theng** and H. Thimbleby, "Addressing Design and Usability Issues in Hypertext and on the Web by re-examining the "Lost in Hyperspace" Problem," *Journal of Universal Computer Science*, **4(11)**, pp. 839–855, 1998.†
29. P. B. Ladkin and H. Thimbleby, "From Logic to Manuals Again," *IEE Proceedings Software Engineering*, **144(3)**, pp. 185–192, 1997.
30. H. Thimbleby, "Calculators True and False," *Engineering Science and Education Journal*, **6(5)**, p. 214, 1997.
31. H. Thimbleby, "Design for a Fax," *Personal Technologies*, **1(2)**, pp. 101–117, 1997.
32. P. B. Ladkin and H. Thimbleby, "From Logic to Manuals," *Software Engineering Journal*, **11(6)**, pp. 347–354, 1997.
33. H. Thimbleby, "Gentler: A Tool for Systematic Web Authoring," *International Journal of Human-Computer Studies*, **47(1)**, pp. 139–168, 1997.
34. H. Thimbleby, "A True Calculator," *Engineering Science and Education Journal*, **6(3)**, pp. 128–136, 1997.
35. M. A. Addison and H. Thimbleby, "Intelligent Adaptive Assistance and Its Automatic Generation," *Interacting with Computers*, **8(1)**, pp. 51–68, 1996.
36. H. Thimbleby, "An Efficient Equivalence Class Algorithm with Applications to Autostereograms," *Software — Practice & Experience*, **26(3)**, pp. 309–325, 1996.
37. **H. Thimbleby**, "A New Calculator and Why it is Necessary," *Computer Journal*, **38(6)**, pp. 418–433, doi:10.1093/comjnl/38.6.418, 1995. ★
38. H. Thimbleby, "An Example of Distribution-Free Testing," *Mathematica Journal*, **5(2)**, pp. 62–65, 1995.
39. D. J. Pullinger, H. Thimbleby and I. H. Witten, "Concepts of Cooperation in Artificial Life," *IEEE Transactions on Systems, Man & Cybernetics*, **25(7)**, pp. 1166–1171, 1995.
40. P. Ladkin and H. Thimbleby, "Comments on A Paper by Voas, Payne & Cohen: "A Model for Detecting the Existence of Software Corruption in Real Time"," *Computers & Security*, **13(6)**, pp. 527–531, 1994.
41. H. Thimbleby, "Designing Interfaces for Problem Solving," *AI & Society*, **8**, pp. 29–44, 1994.
42. S. Inglis, H. Thimbleby and I. H. Witten, "Displaying 3D Images: Algorithms for Single-Image Random-Dot Stereograms," *IEEE Computer*, **27(10)**, pp. 38–48, 1994.
43. H. Thimbleby, "Technological Hubris," *Computers & Digital Techniques*, **5(5)**, pp. 229–234, 1994.
44. H. Thimbleby, "View Binding and User Enhanceable Systems," *The Visual Computer: An International Journal of Computer Graphics*, **10(6)**, pp. 337–349, 1994.
45. H. Thimbleby, "An Organisational Solution to Piracy and Viruses," *Journal of Systems and Software*, **25(2)**, pp. 207–215, 1994.
46. T. C. Bell, A. Moffat, C. G. Nevill-Manning, T. C. Smith, H. Thimbleby and I. H. Witten, "Semantic and Generative Models for Lossy Text Compression," *Computer Journal*, **37(2)**, pp. 83–87, 1994.
47. H. Thimbleby, "Formulating Usability," *ACM SIGCHI Bulletin*, **26(2)**, pp. 59–64, 1994.

48. H. Thimbleby, "Computerised Parkinson's Law," *Computing & Control Engineering Journal*, **4**(5), pp. 197–198, 1993.
49. H. Thimbleby and W. Thimbleby, "Solutioneering in User Interface Design," *Behaviour and Information Technology*, **12**(3), pp. 190–193, 1993.
50. H. Thimbleby, "A Personal View: Software Mechanics," *Software Engineering Journal*, **8**(3), pp. 110–111, 1993.†
51. H. Thimbleby, "Genaille's Rods," *Mathematica Journal*, **3**(2), pp. 60–62, 1993.
52. H. Thimbleby, "GenaillesRods.m package," *Mathematica Journal Electronic Supplement*, **3**(2), 1993.
53. H. Thimbleby, "Can Humans Think? The Ergonomics Society Annual Lecture," **Ergonomics Society Annual Lecture**, *Ergonomics*, **34**(10), pp. 1269–1287, April 1991.†
54. A. J. G. Cockburn and H. Thimbleby, "A Reflexive Perspective of CSCW," *ACM SIGCHI Bulletin*, **23**(3), pp. 63–68, 1991.
55. G. F. Coulouris, S. Greenberg, H. Thimbleby and I. H. Witten, "A New Approach to Sharing Data in Social Networks," *International Journal of Man-Machine Studies*, **34**(3), pp. 337–348, 1991.†
56. H. Thimbleby, "Can Viruses Ever Be Useful?," *Computers and Security*, **10**(2), pp. 111–114, 1991.
57. S. O. Anderson, H. Thimbleby and I. H. Witten, "Reflexive CSCW: Supporting Cooperative Long-Term Personal Work," *Interacting with Computers*, **2**(3), pp. 330–336, 1990.
58. H. Thimbleby and I. H. Witten, "The "Worm" Programs — Early Experience with a Distributed Intelligence," *ACM SIGART Bulletin*, **1**(2), pp. 14–17, 1990.
59. H. Thimbleby, "You're Right About the Cure: Don't Do That," *Interacting with Computers*, **2**(1), pp. 8–25, 1990.
60. H. Thimbleby, "The Leidenfrost Phenomenon," *Physics Education*, **24**(5), pp. 300–303, 1989.
61. H. Thimbleby and I. H. Witten, "Worms and Bugs in the Church-Turing Thesis," *Canadian Artificial Intelligence*(21), pp. 3–4, 1989.
62. H. Thimbleby and I. H. Witten, "Bugs in the Church-Turing Thesis," *Canadian Artificial Intelligence*(19), pp. 17–18, 1989.
63. H. Thimbleby, "A Literate Program for File Comparison," *Communications of the ACM*, **32**(6), pp. 740–755, 1989.†
64. H. Thimbleby, "Using Sentinels in Insert Sort," *Software — Practice & Experience*, **19**(3), pp. 303–307, doi:10.1002/spe.4380190308, 1989.
65. H. Thimbleby, "Delaying Commitment," *IEEE Software*, **5**(3), pp. 78–86, 1988.
66. H. Thimbleby, "Optimising Self-Replicating Programs," *Computer Journal*, **30**(5), pp. 475–476, 1987.
67. H. Thimbleby, "The Design of a Terminal Independent Package," *Software — Practice & Experience*, **17**(15), pp. 351–367, doi:10.1002/spe.4380170505, 1987.
68. H. Thimbleby, "A Menu Selection Algorithm," *Behaviour and Information Technology*, **6**(1), pp. 89–94, doi:10.1080/01449298708901819, 1987.
69. C. Runciman and H. Thimbleby, "Equal Opportunity Interactive Systems," *International Journal of Man-Machine Studies*, **25**(4), pp. 439–451, doi:10.1016/S0020-7373(86)80070-0, 1986.
70. H. Thimbleby, "Experiences with Literate Programming Using CWEB (A Variant of Knuth's WEB)," **Awarded British Computer Society Wilkes Medal**, *Computer Journal*, **29**(3), pp. 201–211, 1986. ★
71. H. Thimbleby, "Failure in the Technical User Interface Design Process," *Computers and Graphics*, **9**(3), pp. 187–193, 1985.†
72. H. Thimbleby, "Guidelines for 'Manipulative' Editing," *Behaviour and Information Technology*, **2**(2), pp. 127–161, 1983.
73. H. Thimbleby, "Designing Word Processors: Principle and Prejudice," *Information Design Journal*, **3**(3), pp. 239–244, 1983.†
74. H. Thimbleby, "A Text Editing Interface: Definition and Use," *Computer Languages*, **7**(1), pp. 25–40, 1982.

75. H. Thimbleby, "Character Level Ambiguity: Consequences for User Interface Design," *International Journal of Man-Machine Studies*, **16**, pp. 211–225, 1982.
76. H. Thimbleby, "A Word Boundary Algorithm for Text Processing," *Computer Journal*, **24**(3), pp. 249–255, 1981.
77. H. Thimbleby, "Dialogue Determination," *International Journal of Man-Machine Studies*, **13**(3), pp. 295–304, 1980.
78. H. Thimbleby, "Leave and Recall: Primitives for Procedural Programming," *Software — Practice & Experience*, **10**(2), pp. 127–134, doi:10.1002/spe.4380100204, 1980.
79. H. Thimbleby, "Computers and Human Consciousness," *Computers and Education*, **3**(3), pp. 241–243, 1979.
80. H. Thimbleby, "Dreams," *Self and Society*, **7**(6), pp. 601–608, 1979.

#### 4.1.2 Conference papers: refereed

81. A. Cauchi, A. Gimblett and H. Thimbleby, "Simulation to evaluate alternative approaches to blocking use errors," in press.
82. A. Blandford, A. Cauchi, D. Furniss, **Y. Li**, C. Monroy, P. Oladimeji, H. Thimbleby and C. Vincent, "Design of Interactive Medical Devices: Feedback and Its Improvement," *Proceedings IEEE International Symposium on IT in Medicine & Education — ITME 2011*, pp. 204–208, China, 2011.
83. A. Cauchi, P. Eslamblochilar, A. Gimblett, P. Lee, Y. Li, P. Oladimeji and H. Thimbleby, "Visualising Medical Device Logs," *Proceedings first BCS Health Wales/ehi2 Joint Workshop*, pp. 23–26, Wrexham, BCS, 2011.
84. A. Cox, **P. Oladimeji** and H. Thimbleby, "Number Entry Interfaces and their Effects on Errors and Number Perception," *Proceedings IFIP Conference on Human-Computer Interaction — Interact 2011*, **IV**, pp. 178–185, Lisbon, Portugal, Springer-Verlag, ISBN 978-3-642-23767-6, 2011.
85. A. Gimblett and H. Thimbleby, "Dependable Keyed Data Entry for Interactive Systems," *FMIS 2011, 4th International Workshop on Formal Methods for Interactive Systems, Electronic Communications of the EASST*, **45**, pp. 1/16–16/16, Limerick, Ireland, 2011.
86. A. Cauchi, P. Curzon, A. Gimblett, Y. Li, P. Masci, P. Oladimeji, R. Rukšėnas and H. Thimbleby, "The Benefits of Formalising Interactive Number Entry," *FMIS 2011, 4th International Workshop on Formal Methods for Interactive Systems, Electronic Communications of the EASST*, **45**, pp. 1/14–14/14, Limerick, Ireland, 2011.
87. A. Cauchi, A. Gimblett and H. Thimbleby, "Buffer Automata: a UI architecture prioritising HCI concerns for interactive devices," *Proceedings ACM Engineering Interactive Computer Systems — EICS 2011*, pp. 73–78, Pisa, Italy, ACM, 2011.
88. H. Thimbleby, "don't use 7-segment displays," *Proceedings BCS Conference on HCI*, pp. 3C:1–6, Newcastle, England, Oxford University Press, 2011.
89. A. Blandford, L. Gallo, A. Gimblett, P. Oladimeji, G. Pietro and H. Thimbleby, "Engineering Interactive Computer Systems for Medicine and Healthcare, EICS4Med," *Proceedings ACM SIGCHI Symposium on Engineering Interactive Computing Systems — EICS2011*, pp. 341–342, Pisa, Italy, ACM, 2011.
90. A. Cauchi, P. Curzon, P. Eslambolchilar, A. Gimblett, H. Huang, P. Lee, Y. Li, P. Masci, P. Oladimeji, R. Rukšėnas and H. Thimbleby, "Towards Dependable Number Entry for Medical Devices," *Proceedings ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS): Engineering Interactive Computing Systems for Medicine and Health Care*, pp. 53–58, Pisa, Italy, ACM, 2011.
91. A. Blandford, A. Cauchi, P. Curzon, P. Eslambolchilar, D. Furniss, A. Gimblett, H. Huang, P. Lee, Y. Li, **P. Masci**, P. Oladimeji, A. Rjakomar, R. Rukšėnas and H. Thimbleby, "Comparing Actual Practice and User Manuals: A Case Study Based on Programmable Infusion Pumps," *Proceedings ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS): Engineering Interactive Computing Systems for Medicine and*

- Health Care*, pp. 59–64, Pisa, Italy, ACM, 2011.
92. G. Hayes, J. Kientz, H. Mentis, M. Reddy and H. Thimbleby, “Interactive Technologies for Health Special Interest Group,” *Proceedings ACM Conference on Computer-Human Interaction — CHI 2011*, pp. 519–522, ACM, 2011.
  93. G. Buchanan, **J. Pearson** and H. Thimbleby, “The Reading Desk: Applying Physical Interactions to Digital Documents,” *Proceedings ACM Conference on Computer-Human Interaction — CHI’2011*, pp. 3199–3202, ACM, 2011.
  94. G. Buchanan, **J. Pearson** and H. Thimbleby, “HCI Design Principles for eReaders,” *Proceedings BooksOnline’10: Proceedings of the third workshop on research advances in large digital book repositories and complementary media*, pp. 15–24, Toronto, Ontario, Canada, ISBN 978-1-4503-0377-4, doi:10.1145/1871854.1871860, 2010.
  95. **C. Acharya**, P. Oladimeji and H. Thimbleby, “Human Computer Interaction and Medical Devices,” *Proceedings BCS Conference on HCI*, Dundee, BCS, 2010.
  96. A. Blandford, G. Buchanan, P. Curzon, D. Furniss and H. Thimbleby, “Few are Looking: Invisible Problems with Interactive Medical Devices,” *Proceedings of the ACM Workshop on Interactive Systems in Healthcare (WISH) — CHI 2010*, pp. 9-12, edited by G. R. Hayes and D. S. Tan, Atlanta, ACM, 2010.
  97. **A. Gimblett** and H. Thimbleby, “User Interface Model Discovery: Towards a Generic Approach,” *Proceedings ACM SIGCHI Symposium on Engineering Interactive Computing Systems — EICS 2010, Best Paper Award*, pp. 145–154, edited by G. Doherty, M. D. Harrison and J. Nichols, Berlin, ACM, doi:10.1145/1822018.1822041, 2010. ★
  98. P. Oladimeji and H. Thimbleby, “Social Network Analysis and Interactive Device Design,” *Proceedings ACM SIGCHI Symposium on Engineering Interactive Computing Systems — EICS’09*, pp. 91–100, edited by G. Calvary, T. C. N. Graham and P. Gray, Pittsburgh, ACM, doi:10.1145/1570433.1570453, 2009.
  99. H. Thimbleby, “Contributing to Safety and Due Diligence in Safety-critical Interactive Systems Development,” *Proceedings ACM SIGCHI Symposium on Engineering Interactive Computing Systems — EICS’09*, pp. 221–230, edited by G. Calvary, T. C. N. Graham and P. Gray, Pittsburgh, ACM, doi:10.1145/1570433.1570474, 2009.
  100. H. Thimbleby, “Teaching and Learning HCI,” *Proceedings HCI International, Part I, Universal Access, HCII 2009*, Lecture Notes in Computer Science, **5614**, pp. 625–635, edited by C. Stephanidis, San Diego, Springer Verlag, doi:10.1007/978-3-642-02707-9\_71, 2009.
  101. G. Buchanan, **J. Pearson** and H. Thimbleby, “Creating Visualisations for Digital Document Indexing,” *Proceedings of the 13th European conference on Research and advanced technology for digital libraries, ECDL’09*, Lecture Notes in Computer Science, pp. 87–93, edited by M. Agosti, J. Borbinha, S. Kapidakis, C. Papatheodorou and G. Tsakonas, Corfu, Greece, Springer Verlag, ISBN 978-3-642-04345-1, 2009.
  102. H. Thimbleby, “Interaction Programming: Next Steps,” *Proceedings ACM CHI*, pp. 3811–3816, ACM, doi:10.1145/1520340.1520576, 2009.
  103. R. Beale, **A. Holzinger** and H. Thimbleby, “Workshop on HCI for Medicine and Health Care (HCI4MED),” *Proceedings BCS HCI Conference, People and Computers, XXII.2*, pp. 191–192, Liverpool, England, BCS, 2008.
  104. **P. Cairns**, **A. Cox**, H. Thimbleby and N. Webb, “Research Methods for HCI,” *Proceedings BCS HCI Conferences, People and Computers, XXII.2*, pp. 221–222, Liverpool, England, BCS, 2008.
  105. J. Goad and H. Thimbleby, “Applying Graph Theory to Interaction Design,” *Proceedings Engineering Interactive Computer Systems — EICS2007/DSVIS 2007*, Lecture Notes in Computer Science, **4940**, pp. 501–518, edited by J. Gulliksen, Salamanca, Spain, Springer Verlag, doi:10.1007/978-3-540-92698-6\_30, 2008.
  106. H. Thimbleby and W. Thimbleby, “Mathematical Mathematical User Interfaces,” *Proceedings Engineering Interactive Computer Systems — EICS2007/DSVIS 2007*, Lecture Notes in Computer Science, **4940**, pp. 519–535, edited by J. Gulliksen, Salamanca, Spain, Springer Verlag, doi:10.1007/978-3-540-92698-6\_31, 2008.
  107. H. Thimbleby, “Using the Fitts Law with State Transition Systems to Find Optimal Task

- Timings,” *Proceedings 2nd International Workshop on Formal Methods for Interactive Systems (FMIS2007)*, pp. 151–162, edited by A. Cerone and P. Curzon, Lancaster, England, 2007.
108. P. Cairns, **L. Oshlyansky** and H. Thimbleby, “Validating the Unified Theory of Acceptance and Use of Technology (UTAUT) tool cross-culturally,” *Proceedings British Computer Society HCI 2007 Conference*, **2**, pp. 83–86, 2007.
  109. H. Thimbleby and W. Thimbleby, “Internalist and Externalist HCI,” *Proceedings British Computer Society HCI 2007 Conference*, **2**, pp. 111–114, Lancaster, England, 2007.
  110. M. D. Harrison and H. Thimbleby, “Names and References in User Interfaces,” *Proceedings British Computer Society HCI 2007 Conference*, **2**, pp. 107–110, Lancaster, England, 2007.
  111. H. Thimbleby, “Interaction Walkthrough: Evaluation of Safety Critical Interactive Systems,” ★ *Proceedings The XIII International Workshop on Design, Specification and Verification of Interactive Systems — DSVIS 2006*, Lecture Notes in Computer Science, **4323**, pp. 52–66, edited by A. Blandford and G. Doherty, Dublin, Ireland, Springer Verlag, doi:10.1007/978-3-540-69554-7\_5, 2007.
  112. H. Thimbleby, “Validity and Cross-Validity in HCI publications,” *Proceedings The XIII International Workshop on Design, Specification and Verification of Interactive Systems — DSVIS 2006*, Lecture Notes in Computer Science, **4323**, pp. 11–24, edited by A. Blandford and G. Doherty, Dublin, Ireland, Springer Verlag, 2007.
  113. P. Cairns, **J. Gow** and H. Thimbleby, “Automatic Critiques of Interface Modes,” *Proceedings Interactive Systems. Design, Specification, and Verification 12th. International Workshop — DSVIS 2005*, Lecture Notes in Computer Science, **3941**, pp. 201–212, edited by S. W. Gilroy and M. D. Harrison, Newcastle, England, Springer Verlag, 2006.
  114. P. Cairns, **L. Oshlyansky** and H. Thimbleby, “A Cautionary Tale: Hofstede’s VSM Revisited,” *Proceedings of British Computer Society Human Computer Interaction Conference*, **2**, pp. 11–15, Edinburgh, Scotland, 2006.
  115. H. Thimbleby, “Applying Bohm’s ideas in the age of intelligent environments,” *Proceedings International Symposium on Intelligent Environments*, pp. 27–33, Cambridge, England, 2006.
  116. H. Thimbleby, “Designing for Usability,” *CIRCUA ESRC Conference*, 2005.
  117. L. Bannon, I. Boivie, J. Gulliksen, L. Oshlyansky and H. Thimbleby, “Lost — or Liberated? — Without Theory,” *Proceedings 19th. British Computer Society HCI Conference*, **2**, p. 344, edited by O. Bertelsen, N. Bryan-Kinns and L. MacKinnon, Edinburgh, Scotland, British Computer Society, 2005.
  118. H. Thimbleby and **W. Thimbleby**, “A Novel Gesture-Based Calculator and Its Design Principles,” ★ *Proceedings 19th. British Computer Society HCI Conference*, **2**, pp. 27–32, edited by O. Bertelsen, N. Bryan-Kinns and L. MacKinnon, Edinburgh, Scotland, British Computer Society, 2005.
  119. L. Bannon, I. Boivie, J. Gulliksen, L. Oshlyansky and H. Thimbleby, “Lost — or Liberated? — Without Theory,” *Proceedings 19th. British Computer Society HCI Conference*, **2**, pp. 299–301, edited by O. Bertelsen, N. Bryan-Kinns and L. MacKinnon, Edinburgh, Scotland, British Computer Society, 2005.
  120. P. Cairns, **J. Gow** and H. Thimbleby, “Automatic Critiques of Interface Modes,” *Proceedings 12th International Workshop on Design, Specification and Verification of Interactive Systems — DSVIS 2005*, Lecture Notes in Computer Science, **3941**, pp. 189–200, edited by S. W. Gilroy and M. D. Harrison, Springer Verlag, 2005.
  121. P. Cairns, **L. Oshlyansky** and H. Thimbleby, “Breaking Affordance: Culture as Context,” *Proceedings of 3rd. Nordic ACM Conference on Computer-Human Interaction — NordiChi 2004*, pp. 81–84, Tampere, Finland, October 23–27, 2004.
  122. A. Blandford, **G. Buchanan**, M. Jones and H. Thimbleby, “Integrating information seeking and structuring: Exploring the role of spatial hypertext in a digital library,” *Proceedings of the fifteenth ACM Conference on Hypertext and Hypermedia — HT04, Proceedings of the European Conference on Digital Libraries*, pp. 225–234, Santa Cruz, CA, USA, 2004.
  123. A. Blandford, **G. Buchanan**, M. Jones and H. Thimbleby, “Supporting Information Structuring in a Digital Library,” *Proceedings ECDL4, European Conference on Digital*

- Libraries*, Lecture Notes in Computer Science, **3232**, pp. 464–475, edited by R. Heery and L. Lyon, Springer Verlag, 2004.
124. A. Blandford, **G. Buchanan**, M. Jones and H. Thimbleby, “Integrating Information Seeking and Structuring: Exploring the Role of Spatial Hypertexts in a Digital Library,” *Proceedings of the fifteenth ACM Conference on Hypertext and Hypermedia, HT’04*, pp. 225–234, ACM Press, 2004.
  125. P. Cairns, H. Thimbleby and **S. Wali**, “Evaluating a Novel Calculator Interface,” *Proceedings British Computer Society HCI Conference*, **2**, pp. 9–12, edited by A. Dearden and L. Watts, Research Press International, 2004.
  126. P. Cairns, J. Gow and H. Thimbleby, “Misleading Behaviour in Interactive Systems,” *Proceedings British Computer Society HCI Conference*, **2**, pp. 33–36, edited by A. Dearden and L. Watts, Research Press International, 2004.
  127. H. Thimbleby, “Computer Algebra in User Interface Design Analysis,” *Proceedings British Computer Society HCI Conference*, **2**, pp. 121–124, edited by A. Dearden and L. Watts, Research Press International, 2004.
  128. H. Thimbleby, “Supporting Diverse HCI Research,” *Proceedings British Computer Society HCI Conference*, **2**, pp. 125–128, edited by A. Dearden and L. Watts, Research Press International, 2004.
  129. H. Thimbleby, “Effective and Enjoyable Research Careers in HCI,” *Proceedings British Computer Society HCI Conference*, **2**, pp. 125–128, edited by A. Dearden and L. Watts, Research Press International, 2004.
  130. A. Blandford, **G. Buchanan**, M. Jones and H. Thimbleby, “Integrating Information Seeking and Structuring: Exploring the Role of Spatial Hypertext in a Digital Library,” *Proceedings Hypertext 2004, Fifteenth ACM Conference on Hypertext and Hypermedia — HT04*, **Winner of Ted Nelson Newcomer Award**, pp. 225–234, 2004.
  131. J. Gow and H. Thimbleby, “MAUI: An Interface Design Tool Based on Matrix Algebra,” *Proceedings of the Fifth ACM International Conference on Computer-Aided Design of User Interfaces IV — CADUI’2004*, pp. 81–94, edited by R. J. K. Jacob, Q. Limbourg and J. Vanderdonckt, Funchal, Madeira, Kluwer Academic Publishers, ISBN 1–4020–3145–9, 2004.
  132. J. Gow and H. Thimbleby, “Computer Algebra in Interface Design Research,” *Proceedings 2004 ACM/SIGCHI International Conference on Intelligent User Interfaces — IUI’04*, pp. 366–367, edited by N. J. Nunes and C. Rich, Funchal, Madeira, ISBN 1-58113-815-6, 2004.
  133. J. Gow and H. Thimbleby, “Computer Algebra in Interface Design Research,” *Proceedings of the Fifth ACM International Conference on Computer-Aided Design of User Interfaces — CADUI’2004*, Funchal, Madeira, 2004.
  134. **A. Blandford**, N. Bryan-Kinns and H. Thimbleby, “Understanding Interaction Traps,” *Proceedings of BCS HCI2–3: Designing for Society*, **2**, pp. 57–60, 2003.
  135. G. Buchanan, **M. Jones** and H. Thimbleby, “Sorting out Searching on Small Screen Devices,” *Proceedings 4th. International Symposium, Mobile Human-Computer Interaction HCI 2002*, Lecture Notes in Computer Science, **2411**, pp. 81–94, Springer Verlag, 2002.
  136. A. E. Blandford, **G. Buchanan**, M. Jones and H. Thimbleby, “Spatial Hypertext as a Reader Tool in Digital Libraries,” *Proceedings Visual Interfaces to Digital Libraries*, Lecture Notes in Computer Science, **2539**, pp. 13–24, edited by K. Börner and C. Chen, Springer Verlag, 2002.
  137. A. Blandford, P. Cairns, P. Curzon, M. Jones and H. Thimbleby, “User Interface Design as Systems Design,” *Proceedings People and Computers — Memorable Yet Invisible*, **XVI**, pp. 281–301, edited by F. Détienne, X. Faulkner and J. Finlay, London, Springer Verlag, 2002.
  138. H. Thimbleby and P. Thomas, “The New Usability: The Challenge of Designing for Pervasive Computing,” *Proceedings of the ICCO2002, 15th. International Conference on Computer Communication*, pp. 382–388, edited by S. P. Mudur and S. V. Raghavan, 2002.
  139. G. Buchanan, N. Cassidy, B. Fields, N. Mohd-Nasir, **Y. Theng** and H. Thimbleby,

- “Dynamic Digital Libraries For Children,” *The First ACM+IEEE Joint Conference on Digital Libraries, JCDL*, pp. 406–415, 2001.
140. P. Duquenoy and H. Thimbleby, “Just Programming,” *Proceedings 5th. Ethicomp, The Social and Ethical Impacts of Information and Communication Technologies*, pp. 83–91, edited by T. W. Bynum, H. Krawczy, S. Rogerson, S. Szejko and B. Wiszniewski, 2001.
  141. G. Buchanan, S. Farrant, **M. Jones**, G. Marsden, M. Pazzani and H. Thimbleby, “Improving Mobile Internet Usability,” *Proceedings 10th. World Wide Web Conference — WWW10*, pp. 673–680, Hong Kong, 2001.
  142. D. Bainbridge, G. Buchanan, N. Cassidy, M. Jones, N. Mohd-Nasir, **Y. L. Theng** and H. Thimbleby, “Children as Design Partners and Testers for a Children’s Digital Library,” *Proceedings 4th. European Conference on Research and Advanced Technology for Digital Libraries, ECDL 2000*, Lecture Notes in Computer Science, **1923**, pp. 249–258, edited by T. Baker and J. Borbinha, Springer Verlag, 2000.
  143. A. E. Blandford, N. Bryan-Kinns and H. Thimbleby, “Interaction Modelling for Digital Libraries,” *Proceedings Workshop on Evaluation of Information Management Systems*, pp. 1–10, 2000.
  144. G. Buchanan, M. Jones, N. Mohd-Nasir, **Y. L. Theng** and H. Thimbleby, “Designing a Children’s Digital Library with and for Children,” *Proceedings of the ACM Fifth Digital Library Conference*, pp. 266–267, 2000.
  145. H. Thimbleby, “Analysis and Simulation of User Interfaces,” *Human Computer Interaction 2000, Proceedings British Computer Society Conference on Human-Computer Interaction, XIV*, pp. 221–237, edited by G. Cockton, S. McDonald and Y. Waern, Newcastle, England, ISBN 1–85233–318–9, 2000.
  146. M. Jones, G. Marsden and H. Thimbleby, “Empowering Users with Usability Certificates,” *Human Computer Interaction 2000, Proceedings British Computer Society Conference on Human-Computer Interaction, II*, pp. 37–38, edited by S. Turner and P. Turner, Newcastle, England, ISBN 1–902505–35–2, 2000.
  147. G. Buchanan, N. Mohd-Nasir, **Y. L. Theng** and H. Thimbleby, “Purpose and Usability of Digital Libraries,” *Proceedings Fifth ACM Conference on Digital Libraries, ACM DL’2000*, pp. 238–239, San Antonio, Texas, 2000.
  148. G. Buchanan, G. Marsden, Y. L. Theng and H. Thimbleby, “How do We Build Web Sites Fit for Purpose?,” *Proceedings IFIP Conference on Human-Computer Interaction — Interact 1999, 2*, pp. 11–12, edited by S. Brewster, A. Cawsey and G. Cockton, ISBN 1–902505–19–0, 1999.
  149. P. Gillary, M. Jones, **G. Marsden** and H. Thimbleby, “Successful User Interface Design from Efficient Computer Algorithms,” *Proceedings ACM CHI (Extended Abstracts)*, pp. 181–182, 2000.
  150. H. Thimbleby, “On Discerning Users,” *How to make User Centred Design Usable*, TRITA-NA-D0006, CID-72, pp. 63–78, edited by I. Boivie, J. Gulliksen and A. Lantz, KTH, Stockholm, Sweden, 2000.
  151. **E. Davenport**, M. Dibben, B. Friedman, S. P. Marsh, H. Rosenbaum and H. Thimbleby, “Non-contractual Trust,” *Proceedings ACM CHI (Extended Abstracts)*, pp. 239–240, Amsterdam, Holland, 2000.
  152. **P. Duquenoy**, H. Thimbleby and S. Torrance, “Towards a Synthesis of Discourse Ethics and Internet Regulation,” *Proceedings of the 4th. ETHICOMP International Conference on the Social and Ethical Impacts of Information and Communication Technologies, Ethicomp’99*, edited by T. Ward Bynum, A. D’Atri, A. Marturano and S. Rogerson, ISBN 88–900396–0–4, 1999.
  153. P. Gillary, M. Jones, G. Marsden and H. Thimbleby, “Using Computing Science Principles in Interface Design,” *Proceedings IFIP Conference on Human-Computer Interaction — Interact 1999, 2*, pp. 47–48, edited by S. Brewster, A. Cawsey and G. Cockton, ISBN 1–902505–19–0, 1999.
  154. P. Duquenoy, G. Marsden and H. Thimbleby, “Ethics and Consumer Electronics,” *Proceedings of the 4th. ETHICOMP International Conference on the Social and Ethical*

- Impacts of Information and Communication Technologies, Ethicomp'99*, edited by T. Ward Bynum, A. D'Atri, A. Marturano and S. Rogerson, ISBN 88-900396-0-4, 1999.
155. G. Buchanan, E. Dunker, N. Mohd-Nasir, **Y. L. Theng** and H. Thimbleby, "Design Guidelines and User-centred Digital Libraries," *Proceedings Research and Advanced Technology for Digital Libraries, Third European Conference on Digital Libraries, ECDL'99*, Lecture Notes in Computer Science, **1696**, pp. 167-183, edited by S. Abiteboul and A. Vercoustre, Springer Verlag, 1999.
  156. G. Buchanan, G. E. Marsden and H. Thimbleby, "Dynamic Metadata for Monitoring Digital Library Management," *Proceedings Fourth ACM Conference on Digital Libraries*, pp. 219-220, Berkeley, California, 1999.
  157. P. Duquenoy and H. Thimbleby, "Justice and Design," *Proceedings IFIP Conference on Human-Computer Interaction — Interact 1999*, pp. 281-286, edited by C. Johnson and M. A. Sasse, ISBN 0-9673355-0-7, 1999.
  158. G. Buchanan, G. Marsden, T. Tan, Y. Theng and H. Thimbleby, "A Stable View of the Hyperactive Web," *Proceedings Workshop on The Active Web*, pp. 27-33, edited by D. Clarke, A. Dix and F. Dix, ISBN 1-897898-45-2, 1999.
  159. G. Buchanan, E. Duncker, N. Mohd Nasir, Y. L. Theng and H. Thimbleby, "Design Guidelines and User-Centred Digital Libraries," *Proceedings Third European Conference on Digital Libraries ECDL'99: Research and Advanced Technology for Digital Libraries*, Lecture Notes in Computer Science, pp. 167-183, edited by S. Abiteboul and A. Vercoustre, Springer Verlag, 1999.
  160. **Y. L. Theng** and H. Thimbleby, "HyperAT: Addressing Usability Issues in Web Authoring," *Proceedings WebNet'98, World Conference of the WWW, Internet, & Intranet*, pp. 885-896, Orlando, Florida, 1998.
  161. N. Beale, P. Duquenoy and H. Thimbleby, "UK Views on Ethical and Spiritual Implications of IT," *Proceedings Fourth International Conference on Ethical Issues in Information Technology, Ethicomp'98*, pp. 734-742, 1998.
  162. G. Marsden, **Y. L. Theng** and H. Thimbleby, "Towards Continuous Usability Evaluation of Web Documents," *Proceedings BCS HCI'98, Conference Companion*, pp. 40-41, edited by J. May, J. Siddiqi and WWilkinson, 1998.
  163. H. Thimbleby, "Specification-led Design," *Proceedings Living Life to the Full with Personal Technologies*(IEE Seminar 98/268), pp. 4/1-4/9, 1998.
  164. H. Thimbleby, "Distributed Web Authoring," *Proceedings WebNet'97, World Conference of the WWW, Internet, & Intranet*, pp. 1056-1083, edited by S. Lobodzinski and I. Tomek, Toronto, Canada, Association for the Advancement of Computing in Education (AACE), ISBN 1-880094-27-4, 1997.
  165. G. E. Marsden, G. J. Palmer and H. Thimbleby, "Benjamin Franklin House: An Illustration of a Site Management and Visual Design Tool for Complex, Multi-authored Web Sites," *Proceedings WebNet'97, World Conference of the WWW, Internet, & Intranet*, p. 688, edited by S. Lobodzinski and I. Tomek, Toronto, Canada, Association for the Advancement of Computing in Education (AACE), ISBN 1-880094-27-4, 1997.
  166. M. Jones, C. Rigny, **Y. L. Theng** and H. Thimbleby, "HyperAT: HCI and Web Authoring," *Proceedings BCS HCI'97, People and Computers, XII*, pp. 359-378, edited by B. O'Conaill, H. Thimbleby and P. J. Thomas, Bristol, England, Springer Verlag, ISBN 3-540-76172-1, 1997.
  167. M. Addison and H. Thimbleby, "Issues for Networked Interpersonal Communications: The Convergence of Technology ... With What," *Proceedings Issues for Networked Interpersonal Communicators*, IEE Colloquium(IEE Digest 1997/139), pp. 6/1-6/4, 1997.
  168. **C. Rigny** and H. Thimbleby, "CUM-DesTool: Applying Executable User Models for Designing Interactive Systems," *Adjunct Proceedings BCS HCI'96*, pp. 145-149, edited by A. Blandford and H. Thimbleby, ISBN 1-85924-119-0, 1996.
  169. **C. Rigny**, Y. L. Theng and H. Thimbleby, "Cognitive User Models as Design Aids," *Adjunct Proceedings BCS HCI'96*, pp. 139-144, edited by A. Blandford and H. Thimbleby, ISBN 1-85924-119-0, 1996.

170. M. Jones, C. Rigny, Y. L. Theng and H. Thimbleby, "Improved Conceptual Design for Better Hypertext," *Adjunct Proceedings BCS HCI'96*, pp. 181–188, edited by A. Blandford and H. Thimbleby, ISBN 1–85924–119–0, 1996.
171. A. Blandford and H. Thimbleby, "The Interaction Design Centre," *Proceedings First Asia Pacific Conference on Human Computer Interaction — APCHI*, pp. 421–433, edited by L. Herman, Y. K. Leung, J. Moyes and L. K. Yong, Singapore, 1996.
172. M. Jones, **C. Rigny**, Y. L. Theng and H. Thimbleby, "Cognitive Task Graphs and Executable User Models for Better Hypertext," *Proceedings First Asia Pacific Conference on Human Computer Interaction — APCHI*, pp. 421–433, edited by L. Herman, Y. K. Leung, J. Moyes and L. K. Yong, Singapore, ISBN 9971–88–495–X, 1996.
173. M. Jones, **Y. L. Theng** and H. Thimbleby, "'Lost in Hyperspace': Psychological Problem or Bad Design," *Proceedings First Asia Pacific Conference on Human Computer Interaction — APCHI*, pp. 387–396, edited by L. Herman, Y. K. Leung, J. Moyes and L. K. Yong, Singapore, ISBN 9971–88–495–X, 1996.
174. **C. Rigny**, Y. L. Theng and H. Thimbleby, "Cognitive User Models as Design Aids," *Proceedings First Asia Pacific Conference on Human Computer Interaction — APCHI*, pp. 387–396, edited by L. Herman, Y. K. Leung, J. Moyes and L. K. Yong, Singapore, ISBN 9971–88–495–X, 1996.
175. H. Thimbleby, "Creating User Manuals for Use in Collaborative Design," *Proceedings ACM Conference on Computer-Human Interaction — CHI'96*, pp. 279–280, edited by M. Tauber, Vancouver, Canada, 1996.
176. M. Jones, **Y. L. Theng** and H. Thimbleby, "Reducing Information Overload: A Comparative Study Of Hypertext Systems," *Proceedings Information Overload, IEE Colloquium(IEE Digest 1995/223)*, pp. 6/1–6/5, 1995.
177. M. Jones, Y. L. Theng and H. Thimbleby, "Designer Tools for Hypertext Authoring," *Proceedings The Authoring and Application of Hypermedia-based User-Interfaces, IEE Colloquium(IEE Digest 1995/202)*, pp. 4/1–4/4, 1995.
178. M. A. Addison and H. Thimbleby, "Hypermedia Manuals for Interactive Systems," *Proceedings The Authoring and Application of Hypermedia-based User-Interfaces, IEE Colloquium(IEE Digest 1995/202)*, pp. 5/1–5/4, 1995.
179. H. Thimbleby, "'Users as Computers": An Approach to VR Design and Conceptual Evaluation," *Proceedings Conference on Interface to Real and Virtual Worlds, IV*, pp. 305–313, 1995.
180. P. B. Ladkin and H. Thimbleby, "A Proper Explanation When You Need One," *Proceedings British Computer Society Conference HCI'95, People and Computers, X*, pp. 107–118, edited by A. J. Dix, J. E. Finlay and M. A. R. Kirby, Huddersfield, Cambridge University Press, ISBN 0–521–56729–7, 1995.
181. M. A. Addison and H. Thimbleby, "HyperDoc: An Interactive System Development Tool," *Proceedings British Computer Society Conference HCI'95, People and Computers, X*, pp. 95–106, edited by A. J. Dix, J. E. Finlay and M. A. R. Kirby, Huddersfield, Cambridge University Press, ISBN 0–521–56729–7, 1995.
182. H. Thimbleby, "Authoring Consistent Hypermedia Without Getting Lost," *Proceedings British Computer Society Conference on People and Computers, HCI'95, Adjunct Proceedings*, pp. 118–124, edited by G. Allen, J. Wilkinson and P. Wright, 1995.
183. M. A. Addison and H. Thimbleby, "Manuals as Structured Programs," *Proceedings British Computer Society Conference HCI'94, People and Computers, IX*, pp. 67–79, edited by G. Cockton, S. W. Draper and G. R. S. Weir, Cambridge University Press, ISBN 0–521–48557–6, 1994.
184. H. Thimbleby, "Hypertext as a Combined System and Manual," *Proceedings Workshop on Issues in Computer Support for Documentation and Manuals, IEE Colloquium(IEE Digest 1993/169)*, pp. 8/1–8/5, 1993.†
185. H. Thimbleby, "Combining Systems and Manuals," *Proceedings British Computer Society Conference on Human-Computer Interaction, HCI'93, VIII*, pp. 479–488, edited by J. L. Alty, D. Diaper and S. Guest, Loughborough, Cambridge University Press, ISBN

- 0-521-46633-4, 1993.
186. D. J. Pullinger and H. Thimbleby, "Observations on Practically Perfect CSCW," *Proceedings CSCW (Computer Supported Co-Operative Working) Issues for Mobile and Remote Workers*, Joint CSCW SIG/IEE Colloquium(IEE Digest 1993/059), pp. 5/1-5/4, 1993.†
  187. H. Thimbleby, "Creative Writing in Hypertext: Beyond Linking Concepts," *Proceedings Conference on Computers & Writing*, **VI**, 1993.
  188. **A. J. G. Cockburn** and H. Thimbleby, "Reducing User Effort in Collaboration Support," *Proceedings 1993 ACM/SIGCHI International Conference on Intelligent User Interfaces — IUI'93*, pp. 215-218, edited by W. D. Gray, W. E. Hefley and D. Murray, Orlando, Florida, ACM Press, ISBN 0-89791-556-9, doi:10.1145/169891.169989, 1993.
  189. H. Thimbleby, "Improving Usability with Design Tools," *Proceedings SERC/IMechE Annual Expert Meeting, Information Technology and Product Design*(Section 3), pp. 59-63, 1992.†
  190. **A. J. G. Cockburn** and H. Thimbleby, "Automatic Conversational Context: Avoiding Dependency on User Effort in Groupware," *Proceedings of OZCHI'92, Interface Technology: Advancing Human-Computer Communication, CHISIG Annual Conference*, pp. 142-149, edited by R. Iannella and M. J. Rees, Australia, ISBN 0-9595349-9-7, 1992.
  191. S. Greenberg and H. Thimbleby, "The Weak Science in Human-Computer Interaction," *Proceedings ACM CHI'92 Research Symposium*, 1992.†
  192. **S. P. Marsh** and H. Thimbleby, "Belief Representation and Agent Architectures," *Proceedings of the Third Belief Representation and Agent Architectures Workshop, BRAA '92*, pp. 97-125, 1992.
  193. H. Thimbleby, "The Future of Viruses," *Proceedings of The NCC Information Technology Conference*, 1992.†
  194. H. Thimbleby, "Intelligent Consumer Products," *Proceedings Intelligent Consumer Products*, IEE/CSD Joint Colloquium(IEE Digest 1992/013), pp. 2/1-2/3, 1992.†
  195. H. Thimbleby, "Formal Methods without Psychology," *Proceedings Theory in Human-Computer Interaction*, IEE Colloquium(IEE Digest 1991/192), pp. 6/1-6/6, 1991.†
  196. H. Thimbleby, "Sharing HyperCard Stacks," *Proceedings 7th Annual Apple European University Consortium Conference*, pp. 68-71, Paris, 1991.
  197. H. Thimbleby, "Low tech L<sup>A</sup>T<sub>E</sub>X," *Proceedings Computers & Writing*, **IV**, pp. 124-130, edited by M. Sharples, Brighton, 1991.
  198. H. Thimbleby, "The Future of Human Computer Interfaces for Computer Integrated Manufacture," *Proceedings ESPRIT Conference on CIM*, St. Albans, 1990.†
  199. J. Bock, H. Thimbleby, **R. J. Watt** and A. Wilkins, "Visible Aspects of Text," *Proceedings Applying Visual Psychophysics to User Interface Design*, pp. 309-325, London, 1990.
  200. H. Thimbleby, "Liveware: A Personal Distributed CSCW," *Proceedings CSCW: Computer Supported Co-operative Work*, IEE Colloquium(IEE Digest 1990/133), pp. 6/1-6/4, 1990.
  201. H. Thimbleby, "Viruses and Their Impact on Future Computing Systems," *Proceedings Workshop on Viruses and Their Future Impact on Computing Systems*, IEE Colloquium(IEE Digest 1990/132), pp. 1/1-1/4, 1990.
  202. S. O. Anderson and H. Thimbleby, "Virus Theory," *Proceedings Workshop on Viruses and Their Future Impact on Computing Systems*(IEE Digest 1990/132), pp. 4/1-4/5, 1990.
  203. H. Thimbleby, "On Formal Methods in HCI, IEE Colloquium," *Proceedings Workshop on Formal Methods in HCI*, **III**(IEE Digest 1989/151), pp. 1/-1/, 1989.
  204. H. Thimbleby, "Modes, WYSIWYG and The von Neumann Bottleneck," *Proceedings Workshop on Formal Methods and Human-Computer Interaction*, **II**(IEE Digest 1988/82), 1988.
  205. A. J. Dix, M. D. Harrison, C. Runciman and H. Thimbleby, "Interaction Models and The Principled Design of Interactive Systems," *Proceedings European Software Engineering Conference*, pp. 127-135, edited by H. Nichols and D. S. Simpson, Springer Verlag, 1987.
  206. H. Thimbleby, "Formal Methods and Human-Computer Interaction, IEE Colloquium," *Proceedings Workshop on Formal Methods and Human-Computer Interaction*(IEE Digest No. 1987/09), 1987.
  207. G. S. Macfarlane and H. Thimbleby, "The TIN: An Approach to Powerful and Cheap User

- Interfaces,” *Proceedings 8th. International Conference on Computer Communication, ICC’86*, pp. 238–241, edited by P. J. Kuehn, Munich, North-Holland, 1986.
208. H. Thimbleby, “The Design of Two Innovative User Interfaces,” *Proceedings British Computer Society Conference on Human Computer Interaction, HCI’86*, pp. 336–351, edited by M. D. Harrison and A. F. Monk, York, Cambridge University Press, ISBN 0–521–33259–1, 1986.
209. M. D. Harrison and H. Thimbleby, “Formalising Guidelines for the Design of Interactive Systems,” *Proceedings British Computer Society Conference on Human Computer Interaction, HCI’85*, pp. 161–171, edited by S. Cook and P. Johnson, Norwich, Cambridge University Press, ISBN 0–521–32066–6, 1985.
210. H. Thimbleby, “Generative User-Engineering Principles for User Interface Design,” *Proceedings First IFIP Conference on Human-Computer Interaction — Interact 1984*, pp. 661–666, edited by B. Shackel, London, North-Holland, ISBN 0–444–87773–8, 1985.
211. H. Thimbleby, “Generative User-Engineering Principles for User Interface Design,” *Proceedings First IFIP Conference on Human-Computer Interaction — Interact 1984*, **2**, pp. 102–107, edited by B. Shackel, London, 1984.
212. H. Thimbleby, “Generative User Engineering Principles,” *9th. Cranfield Conference on Mechanised Information Transfer*, 1984.
213. H. Thimbleby, “Interactive Systems Design: A Personal View,” *Proceedings IEE Conference Man/Machine Systems*(IEE Publication 212), pp. 118–122, Manchester, ISBN 9–85296264–9, 1982.
214. H. Thimbleby, “Basic User Engineering Principles for Display Editors,” *Proceedings 6th. International Conference on Computer Communication, ICC’82*, pp. 537–542, edited by M. B. Williams, London, North Holland, ISBN 0–444–86464–4, 1982.
215. H. Thimbleby, “A Text Display Editor as a Terminal Driver,” *Proceedings Document Preparation Systems*, pp. 13–14, Lausanne, 1981.
216. H. Thimbleby, “Interactive Technology: The Role of Passivity,” *Proceedings 23rd. Annual Human Factors Conference*, pp. 80–84, edited by C. K. Bense, Boston, USA, 1979.
217. H. Thimbleby, “Dialogue Determination,” *7th. Cranfield Conference on Mechanised Information Transfer*, 1979.

#### 4.1.3 Conference posters: refereed

218. P. Cairns, A. Cauchi, A. Cox, A. Gimblett and H. Thimbleby, “Goal-based design improves interaction dependability,” *Digital Engagement 2011*, Newcastle, in press.
219. G. Buchanan, **J. Pearson** and H. Thimbleby, “Improving Annotations In Digital Documents,” *Proceedings of the 13th European conference on Research and advanced technology for digital libraries — ECDL’09*, Lecture Notes in Computer Science, **5714**, pp. 429–432, edited by M. Agosti, J. Borbinha, S. Kapidakis, C. Papatheodorou and G. Tsakonas, Corfu, Greece, Springer Verlag, ISBN 978-3-642-04345-1, 2009.
220. H. Thimbleby and W. Thimbleby, “Weapons of Maths Construction,” *Royal Society Summer Science Exhibition*, London & Mumbai, 2005.
221. N. Mohd Nasir, Y. L. Theng and H. Thimbleby, “A Usability Tool for Web Evaluation applied to Digital Library Design,” *World Wide Web Conference — WWW9 Poster Proceedings*, pp. 90–91, Amsterdam, May 15-19, 2000.
222. N. Mohd-Nasir, **Y. L. Theng** and H. Thimbleby, “A Usability Tool for Digital Libraries,” *Proceedings 9th. International World Wide Web Conference — WWW9 Poster Proceedings*, pp. 90–91, Toronto, 1999.
223. G. Buchanan, G. Marsden and H. Thimbleby, “Meaningful Link Verification for Management and Maintenance of Web Sites,” *Proceedings 8th. International World Wide Web Conference — WWW8 Poster Proceedings*, pp. 170–171, Toronto, Fortec Seminars, 1999.
224. **Y. L. Theng** and H. Thimbleby, “Towards a Usermetric Tool to Improve Web Accessibility,” *Proceedings 8th. International World Wide Web Conference — WWW8*

- Poster Proceedings*, pp. 152–153, Toronto, Fortec Seminars, 1999.
225. E. Davenport, M. Dibben, **S. P. Marsh** and H. Thimbleby, “‘Artificial Morality’: Representations of Trust in Interactive Systems?”, *Proceedings IFIP Conference on Human-Computer Interaction — Interact 1999*, **2**, pp. 211–213, edited by S. Brewster, A. Cawsey and G. Cockton, ISBN 1–902505–19-0, 1999.
226. **Y. L. Theng** and H. Thimbleby, “Is ‘Lost in Hyperspace’ Lost in Controversy?”, *Hypertext’97*, Southampton, 1997.
227. G. E. Marsden, G. Palmer and H. Thimbleby, “Benjamin Franklin House Web Site,” *WebNet’97*, Toronto, 1997.
228. **G. Marsden** and H. Thimbleby, “Designing the Interface Programming Language for the End User,” *BCS Conference on People and Computers, HCI’94*, 1994.

## 4.2 Publications: not refereed

### 4.2.1 Forewords and keynotes: not refereed

229. H. Thimbleby, “Interactive numbers — A grand challenge,” *Proceedings of IHCI 2011: IADIS International Conference Interfaces and Human Computer Interaction 2011*, Keynote, pp. xxviii–xxxv, edited by K. Blashki, Rome, 2011.†
230. P. Langdon and H. Thimbleby, “Inclusion and interaction: Designing interaction for inclusive populations,” Foreword, *Interacting with Computers*, **22**(6), pp. 439–448, ISBN 978–972–8939–52-6, doi:10.1016/j.intcom.2010.08.007, 2010.
231. R. Beale, **A. Holzinger** and H. Thimbleby, “Human-Computer Interaction for Medicine and Health Care (HCI4MED): Towards making information usable,” *International Journal of Human-Computer Studies*, **68**(6), pp. 325–327, doi:10.1016/j.ijhcs.2010.03.001, 2010.
232. H. Thimbleby, “Interactive systems need safety locks,” *Proceedings of the IEEE ITI 2010 32nd International Conference on Information Technology Interfaces*, Keynote, pp. 29–36, edited by Z. Bekic, I. Jarec and V. Luzar-Stiffler, Cavtat, Croatia, ISBN 978–953–7138–18-9, 2010.†
233. H. Thimbleby, “Avoiding latent design conditions using UI discovery tools,” *Proceedings 9th Naturalistic Decision Making, NDM9*, Keynote, pp. 20–27, edited by N. A. Stanton and B. L. W. Wong, London, doi:10.1080/10447310903498692, 2009.†
234. H. Thimbleby, “Understanding User Centered Design (UCD) for People with Special Needs,” *11th International Conference, ICCHP 2008, Computers Helping People with Special Needs*, Keynote, Lecture Notes in Computer Science, **5105**, pp. 1–17, edited by A. Karshmer, J. Klaus, K. Miesenberger and W. Zagler, Linz, Austria, Springer Verlag, ISBN 978-3-540-70539-0, doi:10.1007/978-3-540-70540-6, 2008.†
235. H. Thimbleby, “Teaching HCI to make it come alive,” Keynote, *Magazine of Interaction Design and Architecture(s)*(3 & 4), pp. 9–16, edited by C. Giovannella, P. Kotze and W. Wong, 2008.† ★
236. H. Thimbleby, “User-centered Methods are Insufficient for Safety Critical Systems,” *USAB’07 — Usability & HCI for Medicine and Health Care*, Keynote, Lecture Notes in Computer Science, **4799**, pp. 1–20, edited by A. Holzinger, Graz, Austria, Springer Verlag, 2007.†
237. H. Thimbleby, “Symmetry for Successful Interactive Systems,” *Proceedings ACM CHI New Zealand, OZCHI*, Keynote, pp. 1–9, edited by S. Jones and M. Masoodian, Waikato, New Zealand, 2002.†
238. H. Thimbleby, “Reflections on Symmetry,” *Proceedings IEEE/ACM Advanced Visual Interfaces — AVI2002*, Keynote, pp. 28–33, Venice, Italy, 2002.†

239. H. Thimbleby, "Affordance and Symmetry," *Proceedings Interactive Systems: Design, Specification, and Verification, 8th. International Workshop — DSVIS 2001*, Keynote, Lecture Notes in Computer Science, **2220**, pp.199–217, edited by C. Johnson, Glasgow, Springer Verlag, ISBN 3–540–42807–0, 2001.†
240. H. Thimbleby, "Symmetry as a Connection between Affordance and State Space," *Proceedings Design, Specification and Verification of Interactive Systems — DSVIS 2001*, Keynote, GIST Technical Report, G2001-1, pp.10–19, edited by C. Johnson, Glasgow, 2001.†
241. H. Thimbleby, "The Computer Science of Everyday Things," *Proceedings of the 2nd. IEEE Australasian User Interface Conference — AUIC'01*, Keynote, **23**(5), pp.3–12, edited by P. Calder and M. Rees, Australia, ISBN 0–7695–0969–Z, 2001.†
242. H. Thimbleby, "Ethical and Spiritual Implications of the Internet," *Worshipful Company of Information Technologists, Third Colloquium*, Keynote, House of Lords, London, 2000.†
243. H. Thimbleby, "Visualising the Potential of Interactive Systems," *Proceedings of the 10th. IEEE International Conference on Image Analysis and Processing (ICIAP'99)*, Keynote, pp.670–677, Trento, Italy, 1999.†
244. T. Bell, M. Fellows, N. Koblitz, H. Thimbleby and I. Witten, "Explaining Cryptosystems to the General Public," *Proceedings IFIP TC11 WG11.8 Conference*, Keynote, Report Series 99–008, pp.221–233, edited by S. Fischer-Hübner and L. Yngstgröm, Stockholm University/Royal Institute of Technology, Sweden, ISBN 91–7153–910–7, 1999.†
245. H. Thimbleby, "Design Probes for Handheld and Ubiquitous Computing," *Proceedings Handheld and Ubiquitous Computing, First International Symposium — HUC'99*, Keynote, Lecture Notes in Computer Science, **1707**, pp.1–19, edited by H. Gellersen, Karlsruhe, Germany, Springer Verlag Heidelberg, 1999.†
246. H. Thimbleby, "The Detection and Elimination of Spurious Complexity," *Proceedings of the Workshop on User Interfaces for Theorem Provers*, Keynote, pp.15–22, edited by R. C. Backhouse and J. C. M. Baeten, Eindhoven, Holland, 1998.†
247. H. Thimbleby, "Internet," *Proceedings First Asia Pacific Conference on Human Computer Interaction — APCHI*, Keynote, pp.3–18, edited by L. Herman, Y. K. Leung, J. Moyes and L. K. Yong, Singapore, 1996.†
248. H. Thimbleby, "Foreword," *The Computer User as a Toolsmith: The Use, Reuse and Organization of Computer-Based Tools (by S. Greenberg)*, pp.xiii–xiv, Cambridge University Press, ISBN 0521–40430–4, 1993.†
249. H. Thimbleby, "Interactive Consumer User Interfaces," *Proceedings InfoTech'93, Den Norske Dataforening, Norwegian Computer Society Conference*, Keynote, pp.1–9, Oslo, Norway, 1993.†
250. H. Thimbleby, "Enhanceable User Interfaces," *Proceedings InfoTech'93, Den Norske Dataforening, Norwegian Computer Society Conference*, Keynote, pp.1–5, Oslo, Norway, 1993.†
251. H. Thimbleby, "Foreword," *Pattern Recognition and Neural Nets in HCI*, pp.15–16, edited by J. Finlay and R. Beale, Ellis Horwood, ISBN 0–13–626995–8, 1992.†
252. H. Thimbleby, "'Can Humans Think?'," Ergonomics Society Annual Lecture," Keynote, Southampton, April 1991.†
253. H. Thimbleby, "Bugs: The Issue Facing HCI," *Proceedings British Computer Society Conference on Human Computer Interaction, HCI'89*, Keynote, **V**, pp.105–107, edited by A. Sutcliffe and L. Macaulay, Nottingham, Cambridge University Press, ISBN 0–521–38430–3, 1989.†
254. H. Thimbleby, "Ease of Use — The Ultimate Deception," *Proceedings British Computer Society Conference on Human Computer Interaction, HCI'86*, Keynote, pp.78–94, edited by A. F. Monk and M. D. Harrison, York, Cambridge University Press, ISBN 0–521–33259–1, 1986.†
255. H. Thimbleby, "'What You See is What You Have Got' — A User-Engineering Principle for Manipulative Display?," *First German ACM Conference on Software Ergonomics*, Keynote, Proceedings ACM German Chapter, **14**, pp.70–84, edited by H. Balzert, Nuremburg, Germany, ISBN 3–519–02433, 1983.†

## 4.2.2 Unpublished keynotes: not refereed

256. H. Thimbleby, “Widespread errors are fixable by better design,” *15th National Biomedical and Clinical Engineering Conference*, Keynote, 2011.†
257. H. Thimbleby, “Dependable user interfaces — avoiding computer-provoked “human error” in medical systems,” *24th IEEE International Symposium on Computer-Based Medical Systems (CBMS 2011)*, Keynote, Bristol, England, 2011.†
258. H. Thimbleby, “Secrets of research success,” *SICSA (Scottish Informatics and Computer Science Alliance) PhD Conference 2011*, Keynote, Edinburgh, Scotland, 2011.†
259. H. Thimbleby, “Looking Beyond ‘Human Error’ to its Causes and Prevention,” *Scottish Intensive Care Society Annual Scientific Meeting*, Keynote, St Andrews, Scotland, 2011.†
260. H. Thimbleby, “Looking Beyond ‘Human Error’ to its Causes,” *Patient Safety and Clinical Decision Making*, Keynote, Royal College of Physicians, Edinburgh, Scotland, 2011.†
261. H. Thimbleby, “Looking Beyond ‘Human Error’ to its Causes,” *Scottish Clinical Skills Network*, Keynote, Dundee, Scotland, 2010.†
262. H. Thimbleby, “Reducing designed-in errors in interactive medical devices,” *2009 Health and Life Sciences Symposium*, Keynote, Phoenix, Arizona, 2009.†
263. H. Thimbleby, “Teaching HCI to make it come alive,” *Human-Computer Interaction Educators, HCIED*, Keynote, Rome, 2008.†
264. H. Thimbleby, “Models of Reactive Systems and Their Complex Interactive Behaviour,” *Brain Computer Interaction: PASCAL Workshop 2007—BCI Meets HCI*, Keynote, 2007.†
265. H. Thimbleby, “HCI and Ethics,” *EPSRC Loughborough Workshop on the Future of HCI*, 2007.†
266. H. Thimbleby, “Making Formal Methods Work in HCI,” *1st International Workshop on Formal Methods for Interactive Systems*, Keynote, Macau, 2006.†
267. H. Thimbleby, “The Lansdown Lecture,” London, 2006.†
268. H. Thimbleby, “Highly interactive mathematical user interfaces,” *Mathematical User-Interfaces Workshop, Fifth Mathematical Knowledge Management Conference*, Keynote, 2006.†
269. H. Thimbleby, “The Computer Science of Everyday Things,” *Faculty Lecture*, Keynote, Glasgow University, 2006.†
270. H. Thimbleby, “Digital Stories,” *ESRC Workshop on Universal Access*, Keynote, London, 2006.
271. H. Thimbleby, “Series of 3 lectures,” *Distinguished Lecture Series*, Department of Computer Science, St. Andrews University, 2006.
272. H. Thimbleby, “Weapons of maths construction,” *BT Science and Technology Seminar*, 2005.
273. H. Thimbleby, “Weapons of maths construction,” *Computing Science New Year Lecture*, Glasgow University, 2005.†
274. H. Thimbleby, “Knowing Computer Technology,” *Christians in Science Annual Conference*, Keynote, 2004.†
275. H. Thimbleby, “Quality Research and Ethics,” *EPSRC ‘EQUAL’ Conference*, Keynote, London, 2004.†
276. H. Thimbleby, “The Little Book of Research,” *Leeds Metropolitan University Research Day*, Keynote, 2002.†
277. H. Thimbleby, “Design Probes,” *Xootic Symposium on Pervasive Computing*, Keynote, 2001.†
278. H. Thimbleby, “Symmetry and Affordance,” *Xootic Symposium on Pervasive Computing*, Keynote, 2001.†
279. H. Thimbleby, “Just Programming,” *Sixth International Conference on Object-Oriented Information Systems, OOIS2000*, Keynote, 2000.†
280. H. Thimbleby, “Killer User Interfaces,” *WAP und Mobile eCommerce*, Keynote, Frankfurt, 2000.†

- 281. H. Thimbleby, “What is The Computer Medium?”, *Multi-viewpoint, Shaping the Human-Computer Interface*, Keynote, Design Research Society Conference, 1998.†
- 282. H. Thimbleby, “Future Internet Issues,” *Internet: Opportunity or Threat?*, Keynote, Coventry, Institute of World Concerns, 1996.†
- 283. H. Thimbleby, “3D Creativity for the Web, International Conference, 3D and Multimedia, WWW and Networks,” Keynote, 1996.
- 284. H. Thimbleby, “The Challenge of Technological Hubris,” *ετ’94 Conference*, Keynote, CCTA (Government Office: Government Centre for Information Systems, 1994.†

#### 4.2.3 Conference papers: not refereed

- 285. A. Blandford, L. Gallo, A. Gimblett, P. Oladimeji, G. Pietro and H. Thimbleby, “The biggest challenges are the social ones: Workshop report from EICS4Med 2011,” *Proceedings of the 1st International Workshop on Engineering Interactive Computing Systems for Medicine and Health Care*, pp. 81–82, Pisa, Italy, ACM, 2011.

### 4.3 Books, other papers, patents, etc: not refereed

#### 4.3.1 Books: not refereed

- 286. H. Thimbleby, *Press On — Principles of Interaction Programming*, **Russian edition**, MIT Press, in press. ★
- 287. H. Thimbleby, *Press On — Principles of Interaction Programming*, **Paperback edition**, MIT Press, ISBN 978-0-262-51423-1, 2010. ★
- 288. H. Thimbleby, *Press On — Principles of Interaction Programming*, **Choice Outstanding Academic Title, 2008. Winner, Computer and Information Sciences category, 2007 Professional/Scholarly Publishing Awards for Excellence Competition presented by the Association of American Publishers, Inc.**, MIT Press, ISBN 978-0-262-20170-4, 2007. ★
- 289. D. J. Pullinger, D. Leal, J. Pickering, N. Beale, S. Peyton-Jones, T. Byrne and H. Thimbleby, *Cybernavts Awake!*, Church House Press, ISBN 0-7151-6586-0, 1999.
- 290. G. F. Coulouris and H. Thimbleby, *HyperProgramming*, Addison-Wesley, ISBN 0-201-56886-1, 1993.
- 291. H. Thimbleby, *User Interface Design*, ACM Press Frontier Series, Addison-Wesley, ISBN 0-201-41618-2, 1990. ★

#### 4.3.2 Theses

- 292. H. Thimbleby, *Design Principles for Interactive Text Processing Software*, PhD Thesis, London University, 1981.
- 293. H. Thimbleby, *Towards Interactive Systems Evaluation*, MSc Thesis, London University, 1977.

#### 4.3.3 Edited books and proceedings: not refereed

294. *Proceedings of the 1st International Workshop on Engineering Interactive Computing Systems for Medicine and Health Care*, edited by A. Blandford, L. Gallo, A. Gimblett, P. Oladimeji, G. Pietro and H. Thimbleby, Pisa, Italy, 2011.
295. *Proceedings of the British Computer Society Conference, People and Computers, HCI'97, XII*, edited by B. O'Conaill, H. Thimbleby and P. J. Thomas, Springer Verlag, ISBN 3-540-76172-1, 1997.
296. *Adjunct Proceedings of the British Computer Society Conference, People and Computers, HCI'96*, edited by A. Blandford and H. Thimbleby, ISBN 1-85924-119-0, 1996.
297. *Formal Methods in Human Computer Interaction*, edited by M. D. Harrison and H. Thimbleby, Cambridge University Press, ISBN 0-521-37202 X, 1994.

#### 4.3.4 Contributions to edited volumes: not refereed

298. H. Thimbleby, "Write Now!", *Research Methods for Human-Computer Interaction*, pp.196-211, edited by P. Cairns and A. Cox, Cambridge University Press, 2008.† ★
299. H. Thimbleby, "Java," edition: 4th, *The Encyclopedia of Computer Science*, pp.937-941, edited by D. Hemmendinger, A. Ralston and E. D. Reilly, Nature Publishing Group, 2000.†
300. H. Thimbleby, "Literate Programming," edition: 4th, *The Encyclopedia of Computer Science*, pp.1000-1002, edited by D. Hemmendinger, A. Ralston and E. D. Reilly, Nature Publishing Group, 2000.†
301. H. Thimbleby and I. H. Witten, "Virus," edition: 4th, *The Encyclopedia of Computer Science*, pp.1839-1841, edited by D. Hemmendinger, A. Ralston and E. D. Reilly, Nature Publishing Group, 2000.†
302. H. Thimbleby, "Personal Issues: Personal Boundaries/Global Stage," *2020 Vision: Morality in the Information Society*, pp.81-93, Institution of Electrical Engineers, ISBN 0-85296-702-0, 1998.†
303. H. Thimbleby, "3D Creativity for the Web," *The Internet in 3D*, pp.41-53, edited by R. Earnshaw and J. Vince, Academic Press, ISBN 0-12-227736-8, 1997.†
304. D. J. Pullinger and H. Thimbleby, "Observations on Practically Perfect CSCW," *Remote Cooperation. CSCW Issues for Mobile and Teleworkers*, pp.69-86, edited by R. Beale and A. J. Dix, Springer Verlag, ISBN 3-540-76035-0, 1996.†
305. H. Thimbleby, "Treat People Like Computers? Designing Usable Systems for Special People," *Extraordinary People and Human-Computer Interaction*, pp.283-295, edited by A. Edwards, Cambridge University Press, ISBN 0-521-43413-0, 1995.†
306. H. Thimbleby, "Usability," *Personal Information Management*, pp.31-43, edited by P. J. Thomas, Stanley Thornes, ISBN 0-7487-2327-7, 1995.†
307. A. G. Cockburn, S. R. Jones, S. P. Marsh and H. Thimbleby, "Trust in CSCW," *Computer-Supported Cooperative Work*, pp.253-271, edited by S. Scrivener, Ashgate Publishing, ISBN 0-291-39812-X, 1994.†
308. H. Thimbleby, "Computer Literacy and Usability Standards?," *User Needs in Information Technology Standards*, pp.223-230, edited by C. D. Evans, B. L. Meek and R. S. Walker, Butterworth-Heinemann, ISBN 0-7506-1559-1, 1993.†
309. H. Thimbleby and I. H. Witten, "User Modelling as Machine Identification: New Design Methods for HCI," *Advances in Human Computer Interaction*, IV, pp.58-86, edited by H. R. Hartson and D. Hix, Ablex, ISBN 0-89391-934-9, 1993.†
310. H. Thimbleby, "Literate Programming," *The Encyclopedia of Computer Science*, edition: 3, pp.761-762, edited by A. Ralston and E. D. Reilly, van Nostrand Reinhold, ISBN 0-442-27679-6, 1993.†
311. H. Thimbleby, "The Frustrations of a Pushbutton World," *1993 Encyclopædia Britannica Yearbook of Science and the Future*, pp.202-219, Encyclopædia Britannica Inc., ISBN 0-85229-568-5, 1992.† ★
312. A. J. G. Cockburn, S. Jones and H. Thimbleby, "HyperCard: An Object Oriented Disappointment," *Building Interactive Systems: Architectures and Tools*, pp.35-55, edited

- by P. D. Gray and R. Took, Springer Verlag, ISBN 3-540-19736-2, 1992.†
313. H. Thimbleby, “An Author’s Cross-Referencer,” *Computers and Writing*, pp. 82–98, edited by P. O’B. Holt and N. Williams, Intellect Books, ISBN 1-871516-20-X, 1992.†
314. H. Thimbleby, “Heuristics for Cognitive Tools,” *Proceedings NATO Advanced Research Workshop on Mindtools and Cognitive Modelling, Cognitive Tools for Learning*, NATO ASI Series F, pp. 161–168, edited by D. H. Jonassen, P. A. M. Kommers and J. T. Mayes, ISBN 3-540-55045-3; 0-387-55045-3, 1992.†
315. G. F. Coulouris, S. Greenberg, H. Thimbleby and I. H. Witten, “A New Approach to Sharing Data in Social Networks,” *Computer Supported Cooperative Work and Groupware*, pp. 211–222, edited by S. Greenberg, Academic Press, ISBN 0-12-299220-2, 1991.†
316. H. Thimbleby, “User Interface Design,” *Software Engineer’s Reference Handbook*, pp. 57/1–57/14, edited by J. A. McDermid, Butterworth-Heinemann, ISBN 0-750-61040-9, 1991.†
317. M. D. Harrison and H. Thimbleby, “The Role of Formal Methods in Human-Computer Interaction,” *Formal Methods in Human Computer Interaction*, pp. 1–8, edited by M. D. Harrison and H. W. Thimbleby, Cambridge University Press, ISBN 0-521-37202 X, 1990.†
318. R. Bornat and H. Thimbleby, “The Life and Times of Ded,” *Cognitive Ergonomics and Human Computer Interaction*, pp. 225–255, edited by J. B. Long and A. Whitefield, Cambridge University Press, ISBN 0-521-37179-1, 1989.†
319. H. Thimbleby, “User Interface Design: Generative User Engineering Principles,” *Fundamentals of Human-Computer Interaction*, pp. 165–180, edited by A. F. Monk, Academic Press, ISBN 0-12-504580-8, 1984.†

#### 4.3.5 Articles, reviews and correspondence in journals

320. H. Thimbleby, “Formal Approaches to Computing and Information Technology (edited by P. Palanque and F. Paternó),” *Requirements Engineering*, in press.†
321. H. Thimbleby, “Formal Methods in Human-Computer Interaction (by P. Palanque and F. Paternó),” *Software Testing, Verification and Reliability*, **8**(2), pp. 103–104, 1998.†
322. H. Thimbleby, “The Trouble with Computers: Usefulness, Usability, and Productivity (by Thomas K. Landauer),” *Computational Linguistics*, **22**(2), pp. 265–276, 1996.†
323. H. Thimbleby, “Response to Fetzer’s “What Reviewers Should and Should Not Do: On Harold Thimbleby on AI: Its Scope and Limits”,” *ACM SIGART Bulletin*, **3**(1), p. 7, 1992.
324. H. Thimbleby, “Artificial Intelligence: Its Scope and Limits (by J. H. Fetzer),” *ACM SIGART Bulletin*, **2**(4), pp. 188–189, 1991.†
325. H. Thimbleby, “User Interface,” Letter, *Communications of the ACM*, **34**(7), pp. 17–18, 1991.
326. H. Thimbleby, Letter, *Communications of the ACM*, **31**(8), pp. 944–945, 1988.
327. G. F. Coulouris and H. Thimbleby, “The Network Nation,” *Computers and Education*, **4**(3), p. 255, 1980.†

#### 4.3.6 Articles in other journals: not refereed

328. H. Thimbleby, “Dependable computing in healthcare,” *Public Service Review: UK Science & Technology*, in press.†
329. H. Thimbleby, “Errors + bugs needn’t mean death,” *Public Service Review: UK Science & Technology*, **2**, pp. 18–19, 2011.
330. H. Thimbleby, “Is IT a dangerous prescription?”, *BCS Interfaces*, **84**, pp. 5–10, 2010.† ★
331. H. Thimbleby, “The cutting edge of HCI,” *BCS Interfaces*, **80**, pp. 6–7, 2009.
332. H. Thimbleby, “Ignorance of interaction programming is killing people,” *ACM Interactions*, ★

- pp. 52–57, September+October, 2008.†
333. H. Thimbleby, “Press On,” *British Computer Society ITNOW*, p. 17, BCS, May, 2008.
  334. H. Thimbleby, “Marks for the da Vinci Code: B-,” *CS4FN*, 2008.†
  335. H. Thimbleby, **Y. Wilks** and 660 other authors, “Computing is the new ‘Queen of Sciences’,” *The Times Higher Education Supplement*, p. 14, February 23, 2007.
  336. H. Thimbleby and W. Thimbleby, “Weapons of Maths Construction,” *Royal Society Summer Science Exhibition Guide*, pp. 6–7, 2005.
  337. H. Thimbleby, “La più grande opportunità del mondo,” *Spoletosceinza*, **XVII**(30), pp. 5–6, 2005.
  338. H. Thimbleby, “Interaction design by algebra!?” , *ACM Interactions*, ACM, in press.†
  339. H. Thimbleby, “Healthy HCI?” , *ACM SIGCHI Bulletin*, p. 8, doi:10.1145/571740.571752, November/December, 2002.
  340. H. Thimbleby, “The Computer Science of Everyday Things,” *Mathematics Today*, **38**(4), pp. 107–108, 2002.
  341. H. Thimbleby, “It simply adds up,” *The Independent*, October 2, 2002.
  342. H. Thimbleby, “Overfed with Info,” *Church Times*(7251), p. 24, 15 February, 2002.†
  343. H. Thimbleby, “Not Everything Your Computer Does is Magical,” *The Independent, Monday Review*, p. 4, January 7, 2002.
  344. H. Thimbleby, “The Computer Science of Everyday Things,” *Multimedia Information and Technology*, **27**(4), pp. 328–330, 2002.†
  345. H. Thimbleby, “Debating Government Control of the Internet,” *Mots Pluriels et Grands Themes de Notre Temps*(18), 2001.†
  346. H. Thimbleby, “Cyberspace — The Way of Future Votes,” *Foundations*, **3**(2), pp. 18–19, 2000.†
  347. S. Rogerson and H. Thimbleby, “Beware False Gods,” *Institute for the Management of Information Systems Journal*, **10**(2), pp. 26–27, 2000.†
  348. H. Thimbleby, “Smart to be Simple,” *The Times Higher Education Supplement: Multimedia*(1371), p. 15, 12 February, 1999.†
  349. H. Thimbleby, “The Millenium Bug,” *The Brewer*, **85**(1010), pp. 17–19 & 27, 1999.†
  350. **Y. L. Theng** and H. Thimbleby, “Practical Authoring Tools for Web Authoring,” *Interfaces: Human-Computer Interaction, British Computer Society HCI Specialist Group Newsletter*(38), 1998.
  351. H. Thimbleby, “Spare the Rod,” *Ariadne*, **18**, p. 11, 1998.†
  352. G. Botting, G. Buchanan, G. Marsden, Y. L. Theng and H. Thimbleby, “Www.rsa.org.uk Where We Are @,” *RSA Journal*, **146**(5487), pp. 118–119, 1998.†
  353. H. Thimbleby, “Why are the numbers on a calculator/computer arranged differently from those on a telephone?” , *Focus*, p. 60, January 1996.†
  354. H. Thimbleby, “Walking the Computer Tightrope,” *The Daily Telegraph*, p. 22, March 26, 1996.†
  355. H. Thimbleby, “Autostereograms,” *Encarta CD*, Microsoft, 1996.†
  356. H. Thimbleby, “Information revolution,” *Encarta CD*, Microsoft, 1996.†
  357. H. Thimbleby, “Technological Hubris,” *Elektron, Journal of The South African Institute of Electrical Engineers*, **12**(5), pp. 19–21, 1995.†
  358. H. Thimbleby, “Computerised Parkinson’s Law,” *Elektron, Journal of The South African Institute of Electrical Engineers*, **12**(2), pp. 5–7, 1995.†
  359. H. Thimbleby, “Computers are Best when Hidden,” *The Times Higher Education Supplement: Multimedia*(1184), p. vii, 14 July, 1995.†
  360. H. Thimbleby, “Stereograms — How do they work?” , *FunMaths! 1995 Calendar*, p. 13, QED Ltd, 1994.†
  361. C. Neesham (editor) and H. Thimbleby, “How to Play Tricks with Dots,” *New Scientist*, **140**(1894), pp. 26–29, 1993.†
  362. H. Thimbleby, “Making a Program Faster,” *Program Now*, **7**(5), pp. 40–41, 1993.
  363. H. Thimbleby, “Extra: Science (Picture and quiz for BBC TV),” *Tomorrow’s World*, **151**(46), pp. 82–83, 13–19, November, 1993.†

364. H. Thimbleby, "The Questionnaire," *British Computer Society HCI Newsletter*, p. 24, April, 1993.†
365. H. Thimbleby, "Cover picture," *Mathematica Journal*, **3**(2), 1993.†
366. H. Thimbleby and W. Thimbleby, "Managing a Multiplication Problem," *Program Now*, **7**(1), pp. 71–73, January 1993.
367. H. Thimbleby, "The Undomesticated Video Recorder," *Australian Videography*, April 1992.†
368. H. Thimbleby, "Does Business Have an Attitude Problem?," *New Scientist*, **135**(1836), pp. 49–50, 1992.
369. H. Thimbleby, "Erratum: "See also" Indexing with Makeindex (TUGboat 12(2):290)," *TUGboat*, **13**(1), p. 95, 1992.
370. H. Thimbleby, "See also" Indexing with Makeindex," *TUGboat*, **12**(2), p. 290, 1991.
371. H. Thimbleby, "Computer Literacy," *SocInfo*(5), pp. 16–19, 1991.†
372. H. Thimbleby, "Telephones Now And...," *InterMedia*, **19**(4–5), pp. 50–51, 1991.†
373. H. Thimbleby, "Knowing the User," *InterMedia*, **19**(4–5), pp. 55–56, 1991.†
374. H. Thimbleby, "The Undomesticated Video Recorder," *Journal of the British Kinematograph, Sound and Television Society*, **72**(6), pp. 214–216, 1991.†
375. G. F. Coulouris and H. Thimbleby, "Ted Nelson and His 2020 Vision," *Computer Bulletin, Series IV*, **3**(3), pp. 8–9, 1991.
376. H. Thimbleby, "Can Anyone Work the Video?," *New Scientist*, **129**(1757), pp. 48–51, 1991.
377. H. Thimbleby, "Artificial Life," *Computer Bulletin, Series IV*, **2**(4), pp. 22–23, 1990.
378. H. Thimbleby, "References," *Computer Bulletin, Series IV*, **2**(6), p. 5, 1990.
379. H. Thimbleby, "Liveware: Putting Viruses to Work," *British Computer Society HCI Newsletter*(14), pp. 6–7, 1990.†
380. H. Thimbleby and I. H. Witten, "The Worm that Turned," *Personal Computer World*, pp. 202–206, July 1990.
381. H. Thimbleby, "Traces in HyperCard," *Program Now!*, pp. 36–39, June 1990.
382. H. Thimbleby, "What Does IT Mean?," *Time*, **135**(11), 2pp, March 12, 1990.†
383. H. Thimbleby, "Turning Viruses to Good Use," *New Scientist*, **126**(1722), pp. 72–73, 1990.
384. H. Thimbleby, "Thanks for Wiping the Memory," *New Scientist*, **126**(1717), p. 69, 1990.
385. H. Thimbleby, "No Way to Sell a Program," *New Scientist*, **124**(1693), pp. 84–85, 1989.
386. H. Thimbleby, "User Interface Design and Formal Methods," *Computer Bulletin, Series III*, **2**(3), pp. 13–15 & 18, September, 1986.
387. H. Thimbleby, "Ptrace Smarts," *DECUS UK Unix Special Interest Group*(8), pp. 32–37, 1981.
388. H. Thimbleby, "A Note on Menu Selection," *Computer Bulletin, Series 2*(18), pp. 20, 21 & 23, 1978.

#### 4.3.7 Reviews in other journals: not refereed

389. H. Thimbleby, "Relight the fire of the mind, online," *Reinventing Discovery (by M. Nielsen)*, *Times Higher Education*(2,027), p. 58, 1 December, 2011.†
390. H. Thimbleby, "See, hear and seek no evil," *The Googlization of Everything—and Why We Should Worry (by S. Vaidhyanathan)*, *Times Higher Education*(2,011), p. 48, 11 August, 2011.†
391. H. Thimbleby, "How to get What We Want from IT," *Programming the World Wide Web (by Robert W. Sebesta)*, *Times Higher Education Textbook Guide*(2,000), p. vi, 26 May, 2011.†
392. H. Thimbleby, "Next level: call of social duty," *Reality is broken: Why games make us better and how they can change the world (by Jane McGonigal)*, *Times Higher Education Textbook Guide*(1,998), p. 54, 12 May, 2011.†
393. H. Thimbleby, "Another view (LOL, Lots of Love)," *The Guardian*, p. 21, 14 February, 2011.†

394. H. Thimbleby, "The human side of good research," *Research Methods in Human-Computer Interaction* (by Jonathan Lazar, Jinjuan Heidi Feng and Harry Hochheiser), *Times Higher Education Textbook Guide*, 27 May, 2010.†
395. H. Thimbleby, "No excuse to be illiterate about IT," *Discovering Computers 2010* (by G. B. Shelly and M. E. Vermaat), *Times Higher Education Textbook Guide*(1925), p. vi, 3 December, 2009.†
396. H. Thimbleby, "No excuse to be illiterate about IT," *How to Think Like a Programmer* (by P. Vickers), *Times Higher Education Textbook Guide*(1925), pp. vi–vii, 3 December, 2009.†
397. H. Thimbleby, "No excuse to be illiterate about IT," *Introduction to Algorithms* (by T. H. Cormen, C. E. Leiserson, R. L. Rivest and C. Stein), *Times Higher Education Textbook Guide*(1925), p. vii, 3 December, 2009.†
398. H. Thimbleby, "No excuse to be illiterate about IT," *Interactive Graphics for Data Analysis: Principles and Examples* (by M. Theus and S. Urbanek), *Times Higher Education Textbook Guide*(1925), p. vii, 3 December, 2009.†
399. H. Thimbleby, "Don't panic — help is at hand," *The Algorithm Design Manual* (by S. S. Skiena), *Times Higher Education Supplement*(1873), p. xiv, 27 November, 2008.†
400. H. Thimbleby, "Hands off those joysticks," *Computer Games: Text, Narrative and Play* (by D. Carr, D. Buckingham and G. Schott), *Times Higher Education Supplement*(xxxx), p. 22, 12 January, 2007.†
401. H. Thimbleby, "How you can make a real killing in virtual universes," *Synthetic Worlds: The Business and Culture of Online Games* (by E. Castronova), *Times Higher Education Supplement*(1746), p. 35, 9 June, 2006.†
402. H. Thimbleby, "Nature lessons for computers," *Imitation of Life* (by N. Forbes), *Times Higher Education Supplement*(1688), p. 30, 22 April, 2004.†
403. H. Thimbleby, *Languages for Developing User Interfaces* (edited by B. A. Myers), *Higher Education Academy, Book reviews*, 2004.†
404. H. Thimbleby, "Break the Shackles of Genes and Memes and Escape to Utopia of Rationality," *The Robot's Rebellion* (by K. E. Stanovich), *Times Higher Education Supplement*(1661), pp. 30–31, 8 October, 2004.†
405. H. Thimbleby, *Object Orientated Macromedia Flash MX* (by W. Drol), 2004.†
406. H. Thimbleby, "Dip Your Toes into Wet Computing," *Molecular Computing* (edited by T. Sienko, A. Adamatzky, N. G. Rambidi & M. Conrad), *Times Higher Education Supplement*(1649), p. 26, 16 July, 2004.†
407. H. Thimbleby, "Give your computer's IQ a boost," *Journal of Machine Learning Research*, *Times Higher Education Supplement*, 9 May, 2004.†
408. H. Thimbleby, "Biologists' Lives Full of Worrying Words," *Making Sense of Life* (by E. F. Keller), *Times Higher Education Supplement*(1586), p. 30, 25 April, 2003.†
409. H. Thimbleby, *Concepts in Programming Languages* (by J. C. Mitchell), *Higher Education Academy, Book reviews*, 2003.†
410. H. Thimbleby, "Keep it to Yourself," *Desktop Witness: The do's and don'ts of personal computer security* (by M. Caloyannides), *New Scientist*, **174**(2348), p. 48, 2002.†
411. H. Thimbleby, "We have a Lot to Learn from Ants," *Digital Biology* (by P. Bentley), *Times Higher Education Supplement*(1535), p. 28, 26 April, 2002.†
412. H. Thimbleby, "Put Life's Process into Your Program," *Evolutionary Computation* (edited by T. Bäck, D. B. Fogel and Z. Michalewicz), *Times Higher Education Supplement*(1524), p. 34, 8 February, 2002.†
413. H. Thimbleby, "Da Vinci Dissection Illuminates Conception," *Visual Computing* (by R. M. Friedhoff and M. S. Peercy), *Times Higher Education Supplement*(1508), p. 34, 12 October, 2001.†
414. H. Thimbleby, "Free for All," *From Anarchy to Power* (by W. Grossman), *New Scientist*, **171**(2299), p. 48, 2001.†
415. H. Thimbleby, "Seduced by the Simulated Life," *Creation: Life and How to Make it* (by S. Grand), *Times Higher Education Supplement*(1472), p. 27, 2 February, 2001.†

416. H. Thimbleby, "Techs Appeal," *Robo Sapiens: Evolution of a New Species* (by P. Menzel and F. D'Aluisio), *New Scientist*, **167**(2256), p. 51, 2000.†
417. H. Thimbleby, "Natural Beauty of Computer Land," *The Computational Beauty of Nature: Computer Explorations of Fractals, Chaos, Complex Systems and Adaptation* (by G. W. Flake), *Times Higher Education Supplement*(1408), p. 28, 29 October, 1999.†
418. H. Thimbleby, "Beyond the Fractal Frontier," *Nonlinear Dynamics, Psychology and Life Sciences*, *Times Higher Education Supplement*(1385), p. 33, 21 May, 1999.†
419. H. Thimbleby, "You Don't Want to See it," *The Invisible Computer* (by D. A. Norman), *New Scientist*, **160**(2162), p. 51, 1998.†
420. H. Thimbleby, "Common Tongue," *Knowledge Assets* (by M. Boisot) and *Navigating Complexity* (by A. Battram), *New Scientist*, **160**(2154), p. 49, 1998.†
421. H. Thimbleby, "A Strong String Section," *Algorithms on Strings, Trees and Sequences: Computer Science and Computational Biology* (by D. Gusfield), *Times Higher Education Supplement*(13366), p. 23, 12 June, 1997.†
422. H. Thimbleby, "Sailing to Java (Computing Science Student Books Reviews)," *New Scientist*, **157**(2127), pp. 52–53, 1998.†
423. H. Thimbleby, "Roar of The Surf," *Net.wars* (by W. Grossman), *New Scientist*, **157**(2117), p. 43, 1998.†
424. H. Thimbleby, "Collected Works (childrens' science books)," *New Scientist*, **156**(2109), p. 62, 1997.†
425. H. Thimbleby, "The Really Hard Stuff (Computing Science Student Books Reviews)," *New Scientist*, **153**(2071), pp. 46–47, 1997.†
426. H. Thimbleby, "Out of The World," *Would-be Worlds* (by J. L. Casti), *Times Higher Education Supplement*(1266), p. 27, 7 February, 1997.†
427. H. Thimbleby, "Lively Wetware Seeks Friendly Software," *The Media Equation* (by B. Reeves and C. Nass), *New Scientist*, **152**(2052), p. 40, 1997.†
428. H. Thimbleby, "Collected Works (review of general computing books and software)," *New Scientist*, **151**(2049), p. 57, 1996.†
429. H. Thimbleby, "Still a Few More Problems to Solve," *Review of Texas Instruments TI-92*, *Times Higher Education Supplement Multimedia*(25), p. vi, 14 June, 1996.†
430. H. Thimbleby, "Collected Works (Computing Science Student Books Reviews)," *New Scientist*, **149**(2022), p. 59, 1996.†
431. H. Thimbleby, "Ancient and Modern," *New Scientist*, **148**(2003), p. 44, 1995.†
432. H. Thimbleby, "Unnatural Practices," *The Future Does Not Compute* (by S. L. Talbot), *Times Higher Education Supplement, Multimedia Supplement*, p. xii, 13 October, 1995.†
433. H. Thimbleby, "Be Better than Your Competitors," *Mental Leaps* (by K. Holyoak and P. Thagard), *New Scientist*, **147**(1997), p. 49, 1995.†
434. H. Thimbleby, "The World According to C++ (Computing Science Student Books Reviews)," *New Scientist*, **146**(1976), pp. 50–52, 1995.†
435. H. Thimbleby, "How to Conquer the Fear of Maths," *The Mathematical Universe* (by W. Dunham), *New Scientist*, **144**(1954), p. 44, 1994.†
436. H. Thimbleby, "The Lore and Language of Computing (Computing Science Student Books Reviews)," *New Scientist*, **144**(1946), pp. 50–52, 1994.†
437. H. Thimbleby and W. Thimbleby, *Logoland for Young Learners* (by H. Abelson and A. Abelson), *New Scientist*, **143**(1940), p. 38, 1994.†
438. H. Thimbleby, *Mastering Mathematica* (by J. W. Gray), *New Scientist*, **142**(1931), p. 44, 1994.†
439. H. Thimbleby, "Software review," *HyperStat* (by D. M. Lane), *New Scientist*, **142**(1923), pp. 44–45, 1994.†
440. H. Thimbleby, "The Frustrated User Always Knows Better than the Engineer," *Usability Engineering* (by J. Nielsen), *New Scientist*, **139**(1887), pp. 40–41, 1993.†
441. H. Thimbleby, *New Scientist*, **137**(1854), p. 38, 1993.†
442. H. Thimbleby, "Computer Pastimes," *The Magic Machine: A Handbook of Computer Sorcery* (by A. K. Dewdney), *New Scientist*, **129**(1757), p. 57, 1991.†

443. H. Thimbleby, *How to Think about Algorithms (by J. Edmonds)*, *Times Higher Education Supplement*(1873), p. xv, 27 November, 2008.†
444. H. Thimbleby, *Principles of Mobile Computing (by M. Othman)*, *Times Higher Education Supplement*(1873), p. xv, 27 November, 2008.†
445. H. Thimbleby, “False Image,” *Media Technology and Society (by B. Winston)*, *New Scientist*, **161**(2170), p. 43, 1999.†
446. H. Thimbleby, “Web of Thieves,” *Crime in a Digital Age (by P. N. Grabosky, R. Smith & P. Wright)*, *New Scientist*, **161**(2170), p. 44, 1999.†
447. H. Thimbleby, “Web of Lies,” *And That’s the Way it Will Be (by C. Harper)*, *New Scientist*, **161**(2170), p. 44, 1999.†
448. H. Thimbleby, “Free Thinking,” *Information Liberation (by B. Martin)*, *New Scientist*, **160**(2163), p. 47, 1998.†
449. H. Thimbleby, “Time Out,” *Computer Fun for Everyone (by E. Kordahl)*, *New Scientist*, **160**(2162), p. 49, 1998.†
450. H. Thimbleby, “Health desk,” *CRS: Computer-Related Syndrome (by R. D. Smith and S. Garske)*, *New Scientist*, **159**(2142), p. 52, 1998.†
451. H. Thimbleby, “Good Idea,” *The Inventor’s Guide (by British Library Patents Information Team)*, *New Scientist*, **158**(2138), p. 46, 1998.†
452. H. Thimbleby, “Take Your Pick,” *The Mathematical Magpie (by C. Fadiman)*, *New Scientist*, **157**(2124), 1998.†
453. H. Thimbleby, “Work It Out,” *The Codebreakers (by D. Kahn)*, *New Scientist*, **157**(2124), p. 48, 1998.†
454. H. Thimbleby, “Money-spinner,” *Webonomics (by E. Schwartz)*, *New Scientist*, **157**(2115), p. 41, 1997.†
455. H. Thimbleby, “Piece of Pi,” *Pi: A Sourcebook (by L. Berggren, J. Borwein and P. Borwein)*, *New Scientist*, **156**(2103), p. 48, 1997.†
456. H. Thimbleby, “Future Works,” *Beyond Calculation (by P. Denning and R. Metcalfe)*, *New Scientist*, **155**(2100), p. 52, 1997.†
457. H. Thimbleby, “It’s a Scoop,” *News Revolution (by M. Alleyne)*, *New Scientist*, **155**(2100), p. 52, 1997.†
458. H. Thimbleby, “Sleepwalking to Disaster,” *Trapped in the Net (by G. Rochlin)*, *New Scientist*, **155**(2089), p. 46, 1997.†
459. H. Thimbleby, “Ben As Hero,” *Benjamin Franklin, Politician (by F. Jennings)*, *New Scientist*, **154**(2076), p. 46, 1997.†
460. H. Thimbleby, “Count the Cost,” *Sciencesoft Calculator*, *New Scientist*, **153**(2067), p. 47, 1997.†
461. H. Thimbleby, “The Great British,” *User-Driven Innovation (by D. Caminer, J. Aris, P. Hermon and F. Land)*, *New Scientist*, **153**(2067), p. 43, 1997.†
462. H. Thimbleby, “Talk About Techno,” *Philosophy of Technology (by F. Ferré)*, *New Scientist*, **153**(2067), p. 43, 1997.†
463. H. Thimbleby, “What Is Thought?,” *Machines and Thought: The Legacy of Alan Turing (edited by P. Millican and A. Clark)*, *New Scientist*, **153**(2067), p. 42, 1997.†
464. H. Thimbleby, “Plug into the Future,” *Computing Tomorrow (by I. C. Wand and R. Milner)*, *New Scientist*, **153**(2065), p. 49, 1996.†

#### 4.3.8 Patents

465. H. Thimbleby and W. Thimbleby, *Interactive Display*, Licence granted to Promethean Ltd, 2007, *A novel user interface*, UK Patent No. 0512865.7 (subsequently patented in Australia, Europe, New Zealand and the USA), 2006.
466. M. Jones, G. Marsden and H. Thimbleby, *A Data Information Retrieval System And Method of Retrieving Data*, UK Patent No. 9711230.4, 1997.

467. D. J. Pullinger, H. Thimbleby and I. H. Witten, *Data Management and Security in Distributed Computing Systems*, UK Patent No. 9124679.3, 1991.

#### 4.3.9 Correspondence, videos & other communications

468. H. Thimbleby, "Saving lives by design," *YouTube*, 2011.
469. H. Thimbleby, "Problems with a syringe pump," *YouTube*, 2008.
470. H. Thimbleby, "Driven to distraction?," Letter, *The Times*, p. 25, 19 August, 2008.
471. H. Thimbleby, *Problems and solutions with "simple" interactive devices*, Stanford University, CS 47: Seminar on People, Computers and Design, 19 January, 2007.
472. H. Thimbleby, "Is it worth banning TV standby buttons?," Letter, *The Times*, p. 18, 17 July, 2006.
473. H. Thimbleby, "Don't Ditch Lectures 2," Letter, *Times Higher Education Supplement*, 2 April, 2004.
474. H. Thimbleby, "Higher Costs and Greater Gains 3," Letter, *Times Higher Education Supplement*(1569), p. 15, 20 December, 2002.
475. H. Thimbleby, "Time Bomb with a Longer Fuse," Letter, *Times Higher Education Supplement*(1425), p. 17, 3 March, 2000.
476. H. Thimbleby, "Computer Chaos," Letter, *The Times*, p. 22, 2 April, 1999.
477. H. Thimbleby, "Using the Web Requires Resources," *North Circular*, p. 6, 21 May, 1998.
478. H. Thimbleby, "Time to Fight for Easier Technology," Letter, *The Times*, p. 23, 31 January, 1998.
479. H. Thimbleby, "A Simple Criticism," Letter, *Java Report*, **2**(9), p. 6, 1997.
480. H. Thimbleby, "Budding engineers go to market," Letter, *Times Higher Education Supplement*(1248), p. 14, October 4, 1996.
481. H. Thimbleby, "Cost of Courtesy in Computers," Letter, *The Times*, p. 21, October 14, 1995.
482. H. Thimbleby, "It Doesn't Add Up," Letter, *New Scientist*, **145**(1965), p. 50, 1995.†
483. H. Thimbleby, "Science Tests," Letter, *The Times*, p. 17, 10 May, 1995.
484. H. Thimbleby, *Systems, Manuals, Usability and Graph Theory*, Report on SERC Grant No. GR/J43110, 1994.
485. H. Thimbleby, "High Charges to the Public for Government 'Glasnost'," Letter, *The Times*, p. 19, 14 November, 1994.
486. H. Thimbleby, "Principles First," Letter, *The Independent*, p. 15, 10 September, 1993.
487. H. Thimbleby, "Designed for Freaks by Freaks," Letter, *IEE News*, p. 3, December 5, 1991.
488. H. Thimbleby, **Best letter prize**, Letter, *Apple Business*, **4**(2), p. 7, 1991.
489. H. Thimbleby, "User Interface Design Review," *Stirling Observer*, p. 5, 15 August, 1990.†
490. H. Thimbleby, "Macintoshes from Amsterdam," *DeskTop*(8), p. 3, 2nd quarter, 1989.†
491. H. Thimbleby, *Equal Opportunity and the Design of Interactive Systems*, Stanford University, 1986.†
492. H. Thimbleby, *Cweb Manual*, edition: 2nd, York University, July, 1986.
493. H. Thimbleby, *Cweb Manual*, edition: 1st, York University, August, 1984.
494. H. Thimbleby, *A Basic Introduction to Typing and Editing on the Queen Mary College Unix Systems*, 1981.

#### 4.3.10 Gresham College lectures

495. H. Thimbleby, *Avoiding Death by Computer*, Gresham College, 28 September, 2009.
496. H. Thimbleby, *Better Programming*, Gresham College, 13 May, 2004.
497. H. Thimbleby, *Computer Circles*, Gresham College, 26 February, 2004.
498. H. Thimbleby, *Plugging Computers In*, Gresham College, 27 November, 2003.
499. H. Thimbleby, *Magic Pictures*, Gresham College, 30 October, 2003.

- 500. H. Thimbleby, *Unplugging Computers*, Gresham College, 9 October, 2003.
- 501. H. Thimbleby, *Design by Symmetry*, Gresham College, 27 March, 2003.
- 502. H. Thimbleby, *From Lego, Java and Mathematica to feature interaction*, Gresham College, 13 March, 2003.
- 503. A. Blandford and H. Thimbleby, *Designing for Humans*, Gresham College, 13 February, 2003.
- 504. H. Thimbleby, *Designing Microwave Cookers*, Gresham College, 26 January, 2003.
- 505. H. Thimbleby, *Designing Gadgets*, Gresham College, 26 September, 2002.
- 506. H. Thimbleby, *Designing Mobile Phones*, Gresham College, 28 November, 2002.
- 507. H. Thimbleby, *1,000 Years of Calculators*, Gresham College, 21 November, 2002.
- 508. H. Thimbleby, *Design Creativity with Maths*, Gresham College, 26 September, 2002.
- 509. H. Thimbleby, *Computer Viruses*, Gresham College, 21 March, 2002.
- 510. H. Thimbleby, *Modern Cryptography*, Gresham College, 28 February, 2002.
- 511. H. Thimbleby, *Conventional Cryptography*, Gresham College, 21 February, 2002.
- 512. H. Thimbleby, *Future Computers*, Gresham College, 24 January, 2002.
- 513. H. Thimbleby, *From Henry Briggs to Modern Calculators*, Gresham College, 29 November, 2001.
- 514. H. Thimbleby, *The Computer Science of Everyday Things*, Gresham College, 15 October, 2001.

#### 4.4 Unpublished working papers

- 515. H. Thimbleby, *Chaos and Fractals (by H-O. Peitgen, H. Jürgens and D. Saupe)*, *New Scientist*.†
- 516. A. Cauchi, A. Gimblett, P. Lee, K. Li, P. Oladimeji and H. Thimbleby, “Medical Device Logs: Human Factors & Technology,” submitted.
- 517. H. Thimbleby, “Benjamin Franklin & ideas for science today,” working paper.
- 518. P. Cairns and H. Thimbleby, “Diversity and ethics in HCI,” submitted.

#### 4.5 Discussion papers, etc.

- 519. *Displaying 3D Images: Algorithms for Single Image Random Dot Stereograms*, with I. H. Witten and S. Inglis, Waikato University, 1993. ISSN 1170-487X.
- 520. *Computer Viruses*, Stirling University, 2nd ed. 1990.
- 521. *Literate Programming in C: Manual*, University of York, 1986.
- 522. *Cweb ‘lpr’ Postprocessor*, University of York, 1986.
- 523. *Ded User’s Manual*, Queen Mary College, 1981.
- 524. *Computers and Privacy*, Queen Mary College, 1979.

#### 4.6 Commissioned material

- 525. Effective Research Careers, tutorial notes, BCS Conference on Human-Computer Interaction, 2004.
- 526. The Neglected “Computer” in Human Computer Interaction, tutorial notes, APCHI96, First Asia Pacific Conference on Computer Human Interaction, Singapore, 1996.
- 527. *Autostereograms*, tutorial notes, Informatique’95.
- 528. *New Approaches to User Interface Design*, tutorial notes, HCI’93, 1993.
- 529. Advertisement, 3 × 6.5 metre computer graphics poster, for Ogilvy & Mather Direct, 1993.
- 530. *Creativity in User Interface Design*, tutorial notes, Informatique’93, 1993.

- 531. *Human Computer Interaction*, EuroGraphics Technical Report Series, EG92 TN 4, ISSN 1017-4656, 1992.†
- 532. *User Interface Design*, tutorial notes, Informatique'92, 1992.
- 533. *The Canofile 250*, report for Canon Research Europe, 1991.†
- 534. *Modern Office Technology*, with J. J. Brown, J. S. Bryden, A. G. Donald, R. Murray, I. W. Percy-Robb, D. R. Steel, A. Thorburn, G. Venters and R. B. Weatherstone, Scottish Health Management Efficiency Group (2 vols), 1990. Report for National Health Service.†
- 535. *YACC and Lex*, The Instruction Set, 1983.†

## 5 Other outputs

### 5.1 Other conference presentations

*Partial list.*

- Saving people by design, with R. Beale, E-Health Insider Conference, Birmingham, 2010.
- History of Key Issues, and Why We are Failing, IFIP WG 2.7/13.4 User Interface Engineering, Open Problems in User Interface Engineering Workshop, London, 2009.
- State Machine Engineering, IFIP WG 2.7/13.4 User Interface Engineering, Open Problems in User Interface Engineering Workshop, London, 2009.
- Error and misplaced liability for error at the sharp end, 2nd. European Workshop on Education and Training for Patient Safety, University of Warwick, 2009.
- Interactive medical devices (with Prof Ann Blandford), Clinical Systems Improvement Open Seminar, Warwick Medical School, 2009.
- Devices don't detect errors: What if they could? Workshop on Interactive Medical Devices, UCL, 2009.
- Grand Challenges in Human Error, Natural Computing Applications Forum, NCAF, 2009.
- Grand Challenges in eHealth, Panel, ACM CHI, Boston, USA, 2009.
- Understanding Interactive Medical Devices, MediWales Seminar, Cardiff, 2009.
- Understanding and Reducing Designed-in IT Errors in Healthcare, Hospital of the Future Workshop, Oxford University, 2008.
- New Approaches to Dosage Calculation and How They Can Reduce Errors, Healthcare Extensions Technologies, UCL, London, 2008.
- TippingPoint Germany 2008, Potsdam Institute for Climate Impact Research and British Council, Berlin, 2008.
- Data Collection at the Bedside—Clinical Information Collection in the 21st Century, RCP Joint Specialist Society Clinical Effectiveness Forum, Royal College of Physicians, London, 2008.
- User Generated Content: The Grand Challenges, Royal Society/National Research Foundation South African Workshop on User Generated Content for Developing Countries, Cape Town, 2008.
- Architects or Builders? HCIed 2008: Architecting The Future, Rome, 2008.
- Multidisciplinary Research, in *20 Years of HCI*, Loughborough, 2004.‡
- Communicating Science Honestly, in *Royal Society/British Association Conference on Communicating Science*, 2004.‡
- Interactive Television, panel in *Londonone: iTV Conference*, 2002.‡
- From Logs to Calculators, in *1000 Years of British Mathematics*, Royal Institution, 2001.‡
- UCL Interaction Centre, Natural History Museum, London, 2001.
- Automating Manuals, Bluecoat Conference, 2001.‡
- AI as Applied Justice, in 'Feats and Frontiers,' An International AI Symposium in Memory of Sidney Michaelson, 2001.‡

- UK HCI: Public and Private Thoughts, in Fourth Workshop on Effective Training and Education in HCI, 2001.‡
- Computer Viruses, Trojans and Cryptography: The Issues, in National Residential Conference for Heads of Information Technology and Computing in Further Education Colleges, 2001.‡
- Thoughts on User Interface Patterns, with P. Cairns, in Patterns in Human Computer Interaction, IFIP WG13.2/BCS HCI Group, 2000.
- Trust Panel, ACM CHI, 2000.‡
- EPSRC Workshop, in Handheld and Ubiquitous Computing, HUC2k, 2000.‡
- User Centred Tools, in Workshop on User Centred Design, in Interact'99, 1999.
- Hertfordshire Arts Umbrella Web Site, in Conference on The Arts and The Environment, Herts Arts Umbrella, 2000.‡
- Mobile Phones, in Design for Usability, London, 2000.‡
- Commentary on P. Ladkin's "Ursachenanalyse von Unglücksfällen in Luftverkehr," in *Natur, Gesetz, Naturgesetz: Historische und Zeitgenössische Perspektiven* (Conference on Natural Law: Historical and Contemporary Perspectives), Max Planck Institut für Wissenschaftsgeschichte (Max Plank Institute for the History of Science), Bad Homburg, 1999.‡
- Making Computing Exciting, in First Workshop on the Design of Hypermedia, CERN, Geneva, 1998.‡
- Panel, in *Workshop on User Interfaces for Theorem Provers*, Eindhoven, 1998.‡
- Internet and Unity, in *Unity'97: Multicultural Festival for European Year Against Racism*, 1997.‡
- EPSRC Panel, in *BCS Conference on People and Computers*, HCI'97, 1997.‡
- Systematic Web Authoring, in *The Missing Link: Hypermedia Usability Research & The Web*, Open University, 1 May 1996.
- 'Fifth Generation' User Interfaces: The Way Ahead For Complex Systems, in *BCS Conference on People and Computers*, HCI'94 Demonstration Session, 1994.
- Hyperdoc Demonstration, with M. A. Addison, in *BCS Conference on People and Computers*, HCI'94 Demonstration Session, 1994.
- Interaction Style, in BCS Electronic Publishing Specialist Group Conference, 1993.‡
- New Consumer Interfaces, in *BCS Conference on People and Computers*, Volume VIII, Industrial Programme, 1993.
- Formulating Usability, Workshop on Formal Methods for the Design of Interactive Systems, York, 1993.‡
- Usability by Design, Conference on Open Systems, in Scottish Enterprise/Forth Valley Enterprise Conference, November 1992.‡
- Principles for User Enhanceable Systems, in Department of Trade and Industry User Enhanceable Systems Programme, November 1992.‡
- New Approaches to Design, in Second Joint Research Council Summer School, London, 1991.‡
- HyperCard: An Object-Oriented Disappointment, in Joint meeting of BCS HCI and OOPS Specialist Groups, Glasgow, 1991.‡
- The Main Problem in HCI, Panel Session, in *BCS Conference on People and Computers*, HCI'91, Edinburgh, 1991.‡
- Computers Have No 'Special Needs' Yet They Can Hardly Use Anything, in Workshop on Human-Computer Interaction and Users with Special Needs, York, 1991.‡
- Artificial Life, in St. Andrew's Diocesan Conference, 1990.‡
- Bugs in HyperCard, in Joint Research Council Summer School, Edinburgh, 1990.‡
- Using Menus, in Scottish HyperCard Users' Group Meeting, 1990.‡
- Information Technology: High Technology and a Risk Activity, in Comett Workshop, Montpellier, 1990.‡
- Computer Viruses (panel), in Second International Artificial Life Conference, Santa Fe, 1990.‡

- Computer Viruses, in Computer Support for Teaching Workshop, Stirling University, 1989.‡
- Simple Algebraic Properties of Interfaces, in Reasoning about Interaction, Alvey Workshop, York, 1989.‡
- User vs Designer: The Case of Bugs, in *Computers—Visions for the Future*, Canon Research Europe, 1989.‡
- Formal Methods in HCI, in IFIP Workshop, 1989.‡
- User Models, in *BCS Conference on Expert Systems'88*, 1988.‡
- Author's Cross Referencing, in BCS Software Engineering Specialist Group, Manchester, 1988.‡
- [Details of conference presentations 1984–1988 omitted.]
- SIRUP: A SIR Utility Program, in Elliott Computer Users' Group Annual Meeting, 1976.

## 5.2 Unpublished conference posters/demonstrations

- The National Research Scene, EPSRC Workshop on Grand Challenges in Information Driven Health, 2009.
- Digital Stories, Royal Society/NRF Conference, User-Generated Content Systems and Services for Developing Country Contexts, Cape Town, 2008.  
[www.cs.swan.ac.uk/forbillions/presentations.php](http://www.cs.swan.ac.uk/forbillions/presentations.php)
- A Gesture-based Calculator, demonstration, Royal Society Workshop, 'Rags to Riches,' 2004.
- JCI Database (software demonstration), in Joint Research Councils' Initiative Meeting, 1991.‡

## 5.3 Software

- Syringe pump simulators, suite of programs, 2005–present.
- LISP, a lexically-scoped dialect, 2004.
- Warp, program to XML translator, 2002.
- Siteview, Java Web site generator, 1997.
- GenTL, Web site generator, 1996.
- Autostereograms, Adobe Photoshop plug in, 1995, 1996.
- Autostereograms, Full program, 1995.
- A Sharable Address List, 1991.
- Database for the Joint Research Councils, with G. F. Coulouris, 1991.‡
- Menus in HyperCard, Scottish HyperCard Users' Group stack distribution, 1991.
- Liveware Cards, Advanced Liveware Demonstration, Mathematica Demonstration,
- Noughts and Crosses, on Genome CD-ROM Disc, 1991.‡
- Scottish HCI Database, with I. H. Witten, 1989.
- XR: An Author's Cross-Referencing Program, 1987.
- Cweb, a software system (available as a York University software product), 1986.
- TIP, a Terminal Independent Package (software, documentation, demonstrations, etc.), Thomson Computers, 1984.

## 5.4 Seminars

Excluding numerous internal seminars, University training delivered (e.g., supervising PhD research, getting grants, etc).

2011:

- “Designing Safer Systems,” Shanghai Jiao Tong University. “Seeing Bugs in Systems,” Fudan University. “Designing Safer Systems,” Nanjing University. “Computer Systems and Human Error.”

UCL. “Computational approaches to reducing error,” Stanford Research Institute. “Avoiding computer-provoked ‘human error’ in medical systems,” Health Sciences and Technology, MIT. “Tools and techniques for analysing medical devices,” UCL. “Secrets of Extreme Research,” Welsh Crucible. “Interactive numbers,” City University. “Helping industry, Helping healthcare, Doing engineering, Pushing science?,” UCL. “Rules for dependable number entry,” UCL. “Unseen bugs: reducing mortality,” Brunel University. “Num63r bug5,” Sussex University. “Reducing mortality from IT bugs,” University of California at Berkeley.

*2010:*

“Using digital stories for research and learning,” George Ewart Evans Centre for Storytelling, Glamorgan. “Research collaboration,” Middlesex University. “From machine guns to traffic lights,” Middlesex University. “How to write research,” UCL. “Problems in human error—problems are everywhere,” University of Cardiff. “Extreme research,” Georgia Tech, Atlanta. “Safer by numbers,” Georgia Tech, Atlanta. “Poor system design: A hidden problem in patient safety,” Aberdeen University/NHS Grampian Patient Safety Guest Lecture Series. “Impossible Errors,” Cognitive Match, London.

*2009:*

“Misunderstood human error and some consequences,” Psychology Department, Swansea University. “Avoiding death by computer,” University of Pennsylvania. “Killer applications? Simple but widespread programming problems that are usually ignored,” MIT. “Devices encourage errors—what if they detected them too?” University of Texas at Houston. “Keynote notes,” Apple, Pittsburgh. “Killer applications in hospitals,” University of Manchester. “Saving lives with science,” Royal Society. “From research to writing,” UCL. “Dependable interactive devices, why we need them, how to get them,” UCL. “Moving from user interface design to interaction programming,” MIT. “How CS is science,” Royal Society. “Avoiding designed-in errors in interactive medical devices,” Engineering Department, University of Cambridge. “User error—the interaction programming view,” University of Texas at Houston. “Interactive medical device design,” Georgia Tech, Atlanta. “Best of people and computers,” Georgia Tech, Atlanta. “Reproducible research,” Awarehome, Georgia Tech, Atlanta.

*2008:*

Lecture series: TATA Excellence in Computer Science Week, Pune, India. “Interaction programming in use,” Microsoft Research, Bangalore. Bombay Indian Institute of Technology (BIIT), Mumbai. TECHFEST, Mumbai. “Life, death & computer science,” Aberystwyth. “Life & death issues with compiling,” Wolverhampton. “Reducing designed-in errors,” Birmingham University. “Understanding designed-in errors in interactive devices,” Newcastle University.

*2007:*

“The Usability of Medical Devices,” University of Bielefeld, Germany. “A New Slice of Cheese,” University of Surrey. “Improving Interactive Systems,” Hamilton Institute, Ireland. “A New Sort of Calculator,” University of California at Berkeley, also presented at MIT and Tufts University, USA. “Problems and Solutions with Simple Interactive Devices,” Stanford University, USA.

*2006:*

“Interaction Technology and Its Impact on Science,” Department for Environment, Food and Rural Affairs (DEFRA). “Digital Stories for UCD,” Microsoft Research Cambridge. “Reliable software publishing,” St. Andrews University, 2006.

*2005:*

“A chance to change the world with a new user interface,” Nottingham University. “New approaches to interaction: the case of the calculator,” with W. Thimbleby, Cardiff University. Bad (computer) Science, Bangor University. “Varieties of HCI,” UCL. “Cargo Cult Computer Science,” Glasgow University. “New Calculators” (with W. Thimbleby), London Knowledge Laboratory. “New Calculators” (with W. Thimbleby), Oxford University.

*2004:*

“Building the Future with Weapons of Maths Construction,” Open University. “Fixing

Calculators”, Newcastle University. “Cargo Cult Computer Science,” Open University.

*2003:*

“User Interface Design,” Lancaster University. “Surviving Culture Clash,” Swansea University, Doing computer science better, Birkbeck College. “How and why to make computer science better,” Brunel University.

*2002:*

Mobile Phones, St. Paul’s Girls School. “Computer Science of Everyday Things,” Otago University, New Zealand. “Computer Science of Everyday Things,” Nanyang Technological University, Singapore. “Symmetry,” Nanyang Technological University, Singapore. “Revolting calculators,” Invariant Society, Oxford University. Public Key Cryptography, Middlesex University.

*2001:*

“Affordance & Symmetry,” Human-Computer Interaction Institute, Carnegie Mellon University, USA. “Ticket Machines and Ubiquitous Computing,” Aware Home Research Initiative, Georgia Institute of Technology. “Symmetry,” Georgia Institute of Technology, USA. “User Interface Design,” George Mason University, USA. “Challenges in HCI” and “Future Personal Technologies,” Tufts University, USA. “Symmetry & Affordance,” University of Cape Town. “Ubiquitous User Interfaces,” University of Bath. “Computer Science and Everyday Things,” de Montfort University & University College London. “Justice and Programming,” IFIP 9.2.2, Namur, Belgium, & BCS Ethics Committee, London.

*2000:*

“Computer Science of Everyday Things” & “The Crisis in Computer Science,” Stellenbosch University. “Contributions from Computing,” University of South Africa. “Computer Science of Everyday Things,” University of Cape Town. “Computer Science of Everyday Things,” Cambridge University. “Interaction Design,” University of York. “Interaction Design,” Microsoft Research, Cambridge.

*1999:*

“Computer Viruses,” Kings College London, with P. Cairns. “Review of Research,” University of Rome, La Sapienza. “On Discerning Users,” Royal Institute of Technology, Sweden. “Inspiration, Insight, Influence,” Rutgers University, USA. “Interactive Design,” Centre for Electronic Arts. “Analytic Approaches to User Interfaces,” Southampton University. “Justice and Design,” with P. Duquenoey, IFIP 9.2.2 Namur.

*1998:*

“Morality and the Information Society,” Department of Electronic and Electrical Engineering, University College, London. “Gadgets: Fun or Dangerous?” Interactive Information Institute and Centre for Design, Royal Melbourne Institute of Technology, Victoria, Australia. “Java: A Critique,” Melbourne University, Victoria, Australia. “The Internet,” Warwick University Information Systems Seminar. “Internet Ethics,” IFIP 9.2.2 Namur.

*1997:*

“Visualising The Future” BT, Martlesham. “Java,” Calgary University. “Web Authoring,” University of Waikato. “Web Authoring,” University of Christchurch. “Web Authoring and Java,” Queen Mary & Westfield College. “User Interfaces,” Cheltenham & Gloucester College. “Cryptography,” St. Alban’s School. “Calculators,” Canon Research Europe.

*1996:*

“Public Understanding of Science,” Middlesex University Conference on Research and Technology. “Internet Ethics,” Reading UCCF. “Cryptography,” Southgate Amateur Radio Club. “The Internet Debate,” Huddersfield University. “From Faxing to Flying: Guaranteeing Better and Safer Systems,” Philips Research Labs.

*1995:*

“Generating Hypertext Automatically,” University College London (Computing Science). “Mathematical Approaches to Hypertext,” Centre for Electronic Arts. “Tools for the World Wide

Web,” University College London (Ergonomics Unit).

1994:

“A New Calculator And Why It Is Necessary,” MRC Applied Psychology Unit, Cambridge. “Formal User Interfaces,” Loughborough University. “A New Calculator And Why It Is Necessary,” University of York. “New Calculators,” Sharp Research Laboratories. “Putting The Engineering Back Into Usability Engineering,” Hewlett Packard Laboratories. “Finite State Machines Rehabilitated,” Glasgow University. “Autostereograms,” St. Andrew’s University (Department of Physics). “Talking to Machines,” Centre for Cognitive Science/Human Communication Research Centre, Edinburgh.

1993:

“The Medieval State of Computing and How to Get Beyond It,” Arthur Andersen & Co., Oslo, Norway. “Hypertext and Finite State Machines,” University of Waikato, New Zealand. “Hypertext and Finite State Machines,” Sheffield University. “Creative Hypertext,” University of York. “Generating Manuals,” Canon Research Centre Europe. “Beyond Mere Hypertext,” Queen Mary & Westfield College. “Statecharts,” Heriot-Watt University.

1992:

“User Interface Design,” Sharp Research Laboratories. “Users as Programmers,” Sussex University (Cognitive Science). “Users as Programmers,” Open University ‘distinguished lecture’ (Human Computer Research Laboratory). “Software Rot,” Heriot-Watt University. “Can Humans Think?” Bristol University (Psychology Dept). “When Monkeys Out-do Shakespeare,” Salford University.

1991:

“Where Computer Science Fails Us,” Aston University. “Liveware,” Aldus UK, Edinburgh. “Liveware,” IBM, Warwick. “The Microwave,” Calgary University. “The Video Recorder,” Calgary University. “Video Recorders to Multimedia: Bad Computer Science,” Exeter University. “HCI,” Logica, Cambridge.

1990:

“The Scottish HCI Database,” Scottish HCI Group, Heriot-Watt. “Viruses & Cooperation,” Canon Research Europe. “Liveware,” York University. “User Interface,” Dundee.

1989:

“Bugs, Viruses and Liveware,” Glasgow University. “Software Standards,” Dundee University Students’ Society. “Delaying Commitment,” Imperial College. “On HCI,” Stirling University.

1988:

“Bugs,” Calgary University. “User Models,” Calgary University. “Liveware,” Queen Mary College. “The von Neumann Bottleneck,” York University. “User Interface Design,” University College London (Ergonomics Unit). “Review of User Interface Design,” Calgary University. “Modes and WYSIWYG,” Calgary University. “Cross Referencing,” Stanford University. “The von Neumann Bottleneck,” Stanford University. “HIC,” Xerox EuroParc.

1987:

“Literate Programming,” Logica. “Human–HCI–Interaction,” Edinburgh University (Computer Science).

*Earlier seminars included:*

BCS HCI Group; BCS Software Engineering Group; BCS Advanced Programming Group; Birkbeck College (many); Calgary University (many); Canon Research Europe (many); Computer Support for Teaching (Stirling); Dundee University; Edinburgh University (three); Edmonton University; Ergonomics Society Working Party on HF and Systems Analysis; Eidgenössische Technische Hochschule, Zürich (two); Exeter University; GEC; Glasgow University; Guelph University (two); Honeywell; IFIP WG2.7 (three); University of Canterbury at Kent; Lethbridge University; Logica (four); Manchester University (three); MIT; Newcastle University (two); Northeastern University; Queen Mary College (many); University College London (many); Siemens (Munich); Stanford University (three); Stirling University (many); George Washington University; Xerox PARC; Xerox EuroPARC (two); York University (many);

... also numerous schools talks on general topics in computer science and ethics of technology.

## 5.5 Public events & lectures

### *Future:*

Distinguished Lecture Series, Georgia Tech, Atlanta, USA.

### *2011:*

“Numbers, Numbers Everywhere, and None you can Trust — Not Yet!” Cardiff Scientific Society. The science of HCI, Designing Digital Futures Workshops, Sony, Pencoed; repeated Ty Menai, Bangor. ‘Human error’ in automated medical systems, BCS Mid Wales AGM. Computer Science, Cadbury College, Birmingham.

### *2010:*

Avoiding death by computer, Swansea Science Café

### *2009:*

Science fights ignorance and computer science saves lives (or you should stay out of hospital until it does), Christ College Brecon.

### *2007:*

Press On, Taliesin Theatre, Swansea.

### *2006:*

Science Café, Eisteddfod. Calculators, Eisteddfod. Distinguished Lecture Series (3 lectures), St. Andrews University. Schools Lecture, Glasgow University. Hands-on calculators, National Waterfront Museum.

### *2005:*

See the future... Tomorrow’s technology today — exhibition in National Waterfront Museum Bring the past to life and preserve today for tomorrow — National Waterfront Museum Tenantspin & tagging, Cardiff Festival of Creative Technology. Creative future technologies, The Creative Technology Sector and Near Future Workshop, Colwyn Bay. Royal Society Summer Science Exhibition 2005: Weapons of Maths Construction, with W. Thimbleby. Alterando il destino dell’umanità, Due Mondi Spoleto Festival, Italy. Building the Future with Weapons of Maths Construction, Glasgow University Lecture. The Future Relation of People and Computers, Swansea Science Café.

### *2004:*

Mud and Maths, Royal Institution. Computer Programming, Hampstead Scientific Society. Mobile Phones, London Nautical School.

### *2003:*

Maths in Action, Royal Institution. UCL Lunch Time Lecture. UCL Science Society.

### *2002:*

Tour of New Zealand Universities: talks on computer science research and cryptography (10 lectures, in each NZ university). “Hands-on Cryptography: How the Internet Changes the Rules,” Science Centre, Mathematical & Physical Sciences Faculty Lecture, UCL.

### *2001:*

“Ubiquitous Computing and The Challenge of Global Justice,” Regent’s Park College (Oxford University) series in Technology and Culture from a Christian Perspective.

### *2000:*

“Computer Ethics,” House of Lords.

1998:

“Creative and Effective Design: A Critique of the Culture of Amazing Technology,” BCS Evening Lecture at University of West of England. “Ethics of the Internet,” Guildford Cathedral Lecture. “Magic Pictures,” Courtyard Arts, Hertford. “Dangerous Toys,” IEE Surrey Region AGM Lecture. “Calculators and the Imagination,” IEE Science, Education and Technology Division Lecture. “The Internet and the Global Stage,” Royal Melbourne Institute of Technology, Victoria, Australia. “3D Vision,” National Association for Gifted Children. “Internet Ethics and Security,” VIP Briefing, Investment Centre, Melbourne, Victoria, Australia. “System Design,” Evening lecture for The Oxford Trust.

1997:

“Internet Ethics,” Shirley Methodist Church, Christchurch, New Zealand. “Personal Boundaries/Global Stage,” IEE 20/20 Vision Conference on Morality in the Information Society. Science Prestige Lecture, University of Canterbury, Christchurch, New Zealand. “Internet Ethics,” Edinburgh International Science Festival.

1996:

“Benjamin Franklin,” evening talk for Conference of Professors and Heads of Electrical Engineering. “Future of the Internet” & “3D Illusions” — two lectures at SET’96. “Digital cryptography,” Edinburgh International Science Festival. Various lectures/‘Internet Evenings’ to Chambers of Commerce (Haringey, North London).

1995:

“The Internet: Its Use and Abuse,” IMechE (Greater London Branch) Evening Lecture. “From Faxing to Flying: Guaranteeing Better and Safer Systems,” IEE Evening Lecture. “Computers and Communications,” British Association for Advancement of Science Annual Conference. “Calculators: Controversy & Deception,” Edinburgh International Science Festival.

1994:

“Autostereograms,” Use Your Head Society. “3D Pictures,” Edinburgh International Science Festival.

1993:

“Designing Easy to Use Gadgets,” IEE Surrey Region AGM Lecture. Opening the IT Department, Bilton Grange School. “Science for Technophobics,” Edinburgh International Science Festival.

1992:

“Why Are Children Better At Using Video Recorders Than Their Parents?” British Association for Advancement of Science Annual Conference. “Human Computer Interfaces,” The Scottish Computer Show. “Video Recorders Adults Can Use,” Edinburgh International Science Festival.

1991:

The Ergonomics Society Lecture. “Humans are Computers Too!” Edinburgh International Science Festival. “Computer Viruses or Free Speech?” Edinburgh International Science Festival.

1990:

“Putting Computer Viruses to Good Use,” Edinburgh International Science Festival. “Viruses are Here to Stay,” Evening Lecture, Stirling University. Panel session, Edinburgh International Science Festival.

1989:

“Bugs,” Edinburgh International Science Festival. “The Fashionable User Model,” Calgary University Open Day, 1989. “Liveware Distribution,” Heriot-Watt HCI Centre Open Day.

1986:

“Non-Standard Models,” Calgary University. “Equal Opportunity,” Stanford University.

1980:

“Design of a Display Editor,” Eidgenössische Technische Hochschule, Zürich.

## 5.6 Debates

2004:

“This House believes ‘smart’ tagging is acceptable and essential for our future,” (chaired) Ubiconf 2004.

2003:

“This House believes internet ethics isn’t and we should all be anarchists,” (opposed) Real Time Club, London.

2001:

“This House believes robots will have Free Will,” (proposed) in ‘Feats and Frontiers,’ An International AI Symposium in Memory of Sidney Michaelson. Edinburgh University.

2000:

“This House believes that ‘Control of the Internet by Governments is imperative for the well being of society’,”(proposed) Real Time Club, London.

1995:

“This House believes society is not ready for the freedom of cyberspace,” (proposed) Cambridge University Union Debating Society, Cambridge University.

## 5.7 Web sites

Not counting very many minor sites!

- University College London Interaction Centre, 2001–2005.
- School of Computing Science, Middlesex University, 1994–2001.
- Friends of Benjamin Franklin House, 1995–2001.
- Royal Society of Arts, 1995–2000.
- Hertfordshire Arts Umbrella, 2000–.

## 5.8 Media

Consulted for TV programmes: *The Secret Life of Machines*, *That’s Life*, *Tomorrow’s World*, etc. Numerous articles in *New Scientist* etc.

*TV (partial list):*

*Sky TV*, 29 November 1999. *BBC Breakfast News*, BBC1 (20 November 1997). *Fox on Technology*, Fox TV (September, 1997), *Sky News* (21 February, 1997), *Channel 4 News* (7pm, 25 November, 1994), *Reporting Scotland*, BBC1 (22 April 1993). *Them and Us*, BBC1 (1 July 1991).

*Radio (partial list):*

You and Yours, 13 September, 2002. You and Yours, February 8, 2002. Today Programme, 20 December, 2001. Today Programme, 15 October, 2001. 6PR Radio, Perth, 2 March 1998. ATG Radio, 27 February, 1998. ABC Radio, 27 February, 1998. SBS, 25 February, 1998. Radio Scotland, The Colin Bell Programme, 7 January 1998. Radio 4, interview with Ruth Bishop, 27 March 1997. German National Radio, interviews with Klaus Herbst, 9 September 1996. Radio Viva. 8 December 1995. BBC Radio 4, 21 & 24 June 1995. BBC Radio Scotland, 2 March 1995. BBC Radio 5 Breakfast Show, 8 November, 1994. The Slice, BBC Radio Scotland, 5 October 1994. Science Now, BBC Radio 4, 14 September 1993. Speaking Out, BBC Radio Scotland, 3 August 1994. Radio Scotland, Technophobia panel, 1 September 1992. Radio Newcastle, 27 August 1992. Pebble Mill, 28 August 1992. London Broadcasting Company, 28 August 1992. News At Ten & Thames News, 26 August 1992. Berkshire Network, 26 August 1992. Australian Broadcasting Company, 8 July 1992. London Broadcasting Company, 29 April 1992. Science Now, Radio 4, 18 April 1992. BBC Scotland, Good Morning Scotland, 17 April 1992. Debbie Thrower, BBC Radio 4, You and Yours, 7 April 1992. New Zealand National Radio, 19 March 1992. BBC Newcastle, 12 February 1992. Douglas Cameron Breakfast Call, London Broadcasting Company, 1 October 1991. Kate Fawcett, Good Morning Scotland, BBC Scotland, 13 September 1991. Various interviews on: Clyde Radio, Radio Scotland, Central FM, 30 August, 1991. Barry Johnston, Sussex Radio, 14 August 1991. The Parts, BBC

Radio 4, July, 1991. Derek Jameson, Radio 2, 4 April 1991. Douglas Cameron Breakfast Call, London Broadcasting Company, 4 March 1991. Angela Ripon Programme, London Broadcasting Company, 1 March 1991.

*National UK papers (partial list):*

It simply adds up, *The Independent*, 2 October 2002. When little things mean a lot, Chris Partridge, *Interface The Times* supplement, p6, 22 July 1998. Celebrity Scholars, No. 72, *The Guardian Higher*, 1998. Why Laptops are Flying Through a Cloud of Suspicion, *Daily Telegraph*, 5 March 1998. Walking the Computer Tightrope, *Daily Telegraph*, 2 April 1996. Worse by design: where hi-tech scores lowest, Nick Nuttall, *Interface The Times* supplement, p6, 6 December 1995. Beware porn on the Internet, Martin Bright, p9, *The Guardian*, 3 October 1995. Call for action on Internet porn, Clive Cookson, p7, *Financial Times*, 13 September 1995. Nigel Hawkes, *The Times*, Calculators that can't do their sums properly, p16, 28 November 1994. Nigel Hawkes, *The Times*, Chip fault raises worldwide fears of computer errors, p7, 25 November 1994. Tracey Harrison, *Daily Mail*, Have you got a magic eye? pp26–27, 24 May 1994. Nigel Hawkes, *The Times*, pp1 & 3 Weekend, 7 May 1994. Ruth Wishart, Switched off by real techno-torture, *The Scotsman*, p12, 29 April 1993. Sarah Chalmers, Science Friction, *The Scotsman*, p13, 21 April 1993. *The Times* leader, Timed to Forget, p13, 27 August 1992. Nick Nuttall, Makers Blamed for Baffling Technology, *The Times*, p3, 27 August 1992. Margaret Mitchell, Design Blamed for the Video that is Child's Play to Tune, *The Guardian*, p6, 27 August 1992. Christine McCourty, No Need to be Ashamed of High-Tech Ignorance, *Daily Telegraph*, p6, 27 August 1992. Jenny Hope, *Daily Mail*, 27 August 1992. *Daily Record*, May, 1992. Amy Cooper, Drivers Driven to Distraction by Gadgets, *The Scotsman*, 18 April 1992. John Smith, Bamboozled Hi-tech Users Find Their Champion, *The Scotsman*, p6, 30 March 1992. Eric Bailey, A New Way to Watch Television, *Daily Telegraph*, p17, 6 February 1992. The Video-timer Problem, *The Press* (New Zealand), p43, 5 November 1991. Hugh Aldersey-Williams, Tied in Knots by Fancy Functions, *The Independent*, p18, 30 September 1991. Gary Duncan, When Technology is a Turn Off, *Scotsman*, p3, 29 August 1991. Viruses May Make Computers Useless, *Scotsman*, p3, 15 April 1991. Christine McCourty, Child's Play? Even the Professor is Floored, *Daily Telegraph*, p30, 2 April 1991.

*National Australian papers (partial list):*

Corporate threat to the Net: Expert, *The Australian*, p5, 3 March 1998 & 10 March 1998

*National New Zealand papers:*

New Zealand Herald, Computer science graduates called on to stay, 6 August 2002

*Trade papers (partial list):*

J. Riley, Should Big Brother control the Net? *Computer Weekly*, 21 September, 2000. L. Bayley, 3-D Pictures without the Funky Glasses, *Software Echo*, Issue 12, pp8–9, Spring 1994. R. Freestone, Computer Complexity, *Incorporated Phonographic Society Journal*, pp14–16, April 1994. Virus-Proof Information-Sharing System Developed, *Information World Review*, p15, October 1991. Viruses Force PCs on the Scrapheap, *Computer Weekly*, p80, 18 April 1991. E. Fenton, Liveware is Born, *MacWorld*, p109 & 111, June 1990. K. Kelly, in Perpetual Novelty, *Whole Earth Review*, pp20–29, Summer 1990. M. Bywater, Shut Down, *MacUser*, p82, 15 December 1989. D. Ince, Virus Worms Itself into Our Good Books, *Guardian*, 21 September 1989. Interviewed with M. D. Harrison by T. Durham, More to the Screen than Meets the Eye, *Computing*, pp30–31, 24 March 1988.

*Local papers (partial list):*

David Cumming, World's 1st Course in Artificial Biology, *The Medium*, March 1994. *Stirling Observer*, p11, 17 November 1993. *The Rugby Advertiser*, Old boy opens new department, 3 June 1993. *Evening Telegraph*, Computers lure early-bird pupils, 3 June 1993. *Belfast News Letter*, Makers 'baffling video users', p4, 27 August 1992. *Southern Evening Echo*, 26 August 1992. *London Evening News*, 28 April 1992. James McGhee, Words of Comfort for the Video Idiots, *Edinburgh Evening News*, 18 April 1992. G. James, Computer Illiteracy Just an Excuse for Bad Interfaces, *Gauntlet*, p2, 20 June 1991. Fingertip Controls that are not at Professor's Fingertips, *Stirling Observer*, p11, 17 April 1991. P. Gruner, Boffin Joins Ranks of Bewildered, *London Evening Standard*, p8, 28 February 1991.

## 6 Teaching profile

### 6.1 Research supervision and examining

#### 6.1.1 Current doctoral researchers

Chitra Acharya (started 2008) — medical HCI.  
 Andy Gimblett (started 2009) — domain specific languages.  
 Alexis Lewis (started 2011) — healthcare.  
 Patrick Oladimeji (started 2010) — medical HCI.  
 Jennifer Pearson (started 2008) — ebooks.

#### 6.1.2 Previous researchers

Will Thimbleby, *Drawing from Calculators*, PhD, 2010.  
 Lidia Oshlyansky, Swansea University, *Cultural Models in HCI: Hofstede, Affordance and Technology Acceptance*, PhD, 2008.  
 George Buchanan, University of Middlesex, *Spatial Hypertext*, PhD, 2005.  
 Penny Duquenoy, University of Middlesex, *Internet Ethics: A Framework for Understanding Ethical Issues*, PhD, 2001.  
 Nina Warburton, University of Northumbria, *Developing Techniques for the Effective Application of Three Dimensional Computer Modelling by the Industrial Designer within Industrial Design Practice*, PhD, 2000.  
 Doreen Ng, University of Middlesex, *Complexity and User Perceptions*, BPhil, 1999.  
 Gary Marsden, University of Stirling, *Designing Graphical Interface Programming Languages for the End User*, PhD, 1998.  
 Cécile Rigny, University of Middlesex, *Automatic Generation of Executable User Models for Evaluating the Usability of Interactive Systems*, PhD, 1998.  
 Yin Leng Theng, University of Middlesex, *The Lost in Hyperspace Problem*, PhD, 1997.  
 Stephen Marsh, University of Stirling, *Trust in Distributed AI*, PhD, 1994.  
 Steve Jones, University of Stirling, *Cooperative Writing*, PhD, 1994.  
 Andrew Cockburn, University of Stirling, *Principles of CSCW*, PhD, 1993.  
 David Lau-Kee, University of York, *Visual and By-example Interactive Systems for Non-programmers*, DPhil, 1990.  
 Janet Finlay, University of York, *Modelling Users by Classification: An Example-based Approach*, DPhil, 1990.  
 Drs Lau-Kee and Finlay each won the York University Gibbs-Plessey Prize.

#### 6.1.3 External examinations

M. Hudson (MRes), *Semiotics & Syringe Pumps*, University of York, 2011.  
 R. Macefield (PhD), *The Development and Evaluation of The Derivative Model Approach to Improving ICT Usability*, University of Loughborough, 2010.  
 N. B. Ngwenya (PhD), *The Use of Weblogs Within an End of Life Context*, University of Staffordshire, 2010.  
 P. Eslambolchilar (PhD), *Making Sense of Interaction Using a Model-Based Approach*, University of Maynooth, 2007.  
 F. Egger (PhD), *From Interactions to Transactions*, Eindhoven University, 2003.  
 H. Xiong (PhD), *Providing a Formal Linkage between MDG and HOL based on a Verified MDG System*, Middlesex University, 2002.

- P. Woong (PhD), *A Fuzzy Logic Monitoring System for Hypermedia Applications*, Imperial College, 2001.
- C. Sandom (PhD), *Situational Awareness and Interactive System Safety Analysis*, Brunel University, 2000.
- W. Wong (PhD), *Information Portrayal in Dynamic Decision Making Environments*, Otago University, 1998.
- J. Sharp (PhD), *Interaction Design for Electronic Products Using Virtual Simulations*, Brunel University, 1997.
- A. Takáts (MPhil), *The Application of Non-standard Logics to Linguistic Modelling with Special Reference to Fuzzy Logic*, Middlesex University, 1996.
- M. Humphrey (DPhil), *A Graphical Notation for the Design of Information Visualisation*, Waikato University, 1996.
- R. R. Dvorak (PhD), *Text To Hypertext Books: An Evaluative Investigation into Reader-Centred Link Structures for Hypertext*, London University, 1995.
- M. Pittas (PhD), *Navigation in Hypertext*, London University, 1995.
- A. H. Abdullah (PhD), *Accessing Networked Services: A User Interface Design Problem*, University of Aston, 1995.
- L. J. Chubb (PhD), *Data Refinement Models for Program and User Interfaces*, University of New South Wales, 1993.
- W. Xu (PhD), *Distributed, Shared and Persistent Objects*, London University, 1993.
- G. Cockton (PhD), *Architecture and Abstraction in Interactive Systems*, Heriot-Watt University, 1992.
- C. W. Johnson (DPhil), *A Formal Approach to the Integration of Human Factors and Systems Engineering*, University of York, 1992.
- K. Y. Lim (PhD), *The Development and Integration of a Human Factors Structured Analysis and Design Method*, University College, London, 1992.
- G. Abowd (DPhil), *Formal Aspects of Human-Computer Interaction*, Oxford University, 1991.
- D. England (PhD), *Graphical Support for User Interface Specification*, Lancaster University, 1991.
- H. Fuks (PhD), *Negotiation Using Commitment and Dialogue*, Imperial College, 1990.
- M. G. Menelaou (MPhil), *An Adaptable Interface for High Level Language Interactive Debuggers*, University College London, 1989.
- Y. Yang (PhD), *User-Oriented Design of Undo Support*, Heriot-Watt University, 1989.
- S. Greenberg (PhD), *Tool Use, Reuse, and Organization in Command-Driven Interfaces*, Calgary University (Canada), 1988.
- M. King (PhD), *Computer Media in the Visual Arts, and Their User Interfaces*, Royal College of Art, 1987.
- M. Najah (PhD), *Pictorial Interfaces to Data Base Systems*, Teeside Polytechnic, 1986.
- K. Efe (PhD), *User Friendly Response & Transparent Task Allocation in a Networked Abstract Machine Environment*, Leeds University, 1985.
- Future examinations:* D. Reed (PhD), *Journals, E-journals and Me-journals: Technological and Human Issues in the Development of On-line Peer Reviewed Journals*, University of the West of England.

Also examined and supervised numerous MScs, both internal and external, e.g., for Waikato University (New Zealand), Massey University (New Zealand), Bielefeld University (Germany), Nanyang Technological University (Singapore), Hong Kong Baptist University, *etc.*

## 6.2 Teaching and examining

### *External Examining:*

Queen Mary, London University, MSc in Advanced Methods in Computer Science (2000–2003). Loughborough University Department of Computer Science MSc (1992–1996). Dundee University Department of Computer Science BSc (1989–1991).

*Postgraduate Courses:*

Director of UCL MSc (Advanced MSc in HCI and Ergonomics, 40 students), 2001–present. PhD: Faculty research training: conferences, workshops, seminars, *etc.* MSc: Fundamentals of computing (automata), human-computer interaction, graph theory and networks, *etc.*

*Main Undergraduate Courses:*

Psychology Seminars. Project organisation, Programming, Algorithms (complexity), Principles of Programming Languages (denotational semantics), Human-computer Interaction, Graph Theory, Networks, *etc.*

*Other Lectures and courses:*

Various undergraduate and graduate courses and guest lectures (as well as at UCL, Middlesex, Queen Mary College, Stirling and York) at: Birkbeck College; University of Canterbury, Christchurch; University of Cape Town; University College London; Calgary University; Eidgenössische Technische Hochschule (Zürich); Glasgow University; University of Manchester Institute of Science and Technology (UMIST); Stanford University.