

Harold William Thimbleby

BSc MSc PhD CEng FIET FLSW FRCP (Edin) Hon.FRSA Hon.FRCP

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- **Prolific researcher** Book *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*. He has 320 peer reviewed publications (plus 68 both invited and peer reviewed, and 586 invited without further review).
- **Team builder** Research team won the first GE Healthcare Award for Outstanding Impact in Health and Wellbeing, 2014. 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 79 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 498 lectures (including at Cambridge, Harvard, MIT, Oxford, Royal Institution, Royal Society, Stanford and the House of Lords) in 29 different countries.
- **Advancing public understanding of science** 28th. 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
Researcher ID: D-4389-2013
Scopus Author ID: 7005826808
Google profile: 58IUjUwAAAAJ

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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 College of Physicians, 2013.

Fellow of the Royal College of Physicians, Edinburgh, 2012.

Honorary Fellow of the Royal Society of Arts.

Hon.FRSA unanimously nominated by RSA Council, 2001.

FRSA nominated by RSA Council, 1990.

Fellow of the Institute Engineering and Technology, 1996.

Chartered Engineer: CEng.

Freeman of the Worshipful Company of Information Technologists.

Life member of the Gresham Society, 2001.

Honorary Member of the Real Time Club, 2000.

Member American Association for the Advancement of Science (AAAS), 1994–.

Previously: Member New York Academy of Sciences (elected 1994). Member Association of Computing Machinery (MACM).

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*, 1990–.

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: *usableiTV*, *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–. 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), trustee (2011–2013) & standing group member, 2011–. UK Computing Research Committee, 2007–. 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–. Welsh Crucible steering group, 2011–.

PITCOM (Parliamentary Information Technology Committee), since 1994; on Council 1998–1999; Programme Committee 1999–2005. British Computer Society Ethics Committee, 1999–2005.

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

2012: ICT Spend Overview & Scrutiny Board (reporting to Liam Maxwell, Cabinet Office).
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.

2014: International Conference on Health Informatics, HEALTHINF 2014, Eseo, France. IEEE International Conference on Healthcare Informatics 2014 (ICHI 2014). **2013:** IEEE International Conference on Healthcare Informatics 2013 (ICHI 2013). INTERACT 2013 — The 14th IFIP TC13 Conference on Human-Computer Interaction, Cape Town, South Africa. SouthCHI — International Conference on Human Factors in Computing and Informatics, Maribor, Slovenia. Workshop on Open Resilient human-aware Cyber-physical Systems (WORCS-2013), Budapest. **2012:** Intelligent Environments for Healthcare and Well-Being 2012. **2011:** USAB 2011 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.

Also reviewed fellowship proposals for Royal Society, Leverhulme Trust, Royal Academy of Engineering, EPSRC, etc.

3.8 Internal committees

Member and/or chair of normal academic and Departmental committees. **Swansea**: Member of College of Science Research Committee. Chair of Department Research Committee, 2005–2007. **UCL**: 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

Brief title (Reference)	Period	Funder	Value	Role
ISO usability	2014-15	AAMIA	1,950	PI
Discipline Hopping Healthcare (EP/L019272/1)	2014-15	EPSRC	96,681	PI
Impact Acceleration Account (EP/K504002/1)	2012-15	EPSRC	637,927	coI
Safe Use of Medical Devices (EP/G059063/1)	2009-15	EPSRC	5,820,840	coI
Chronic conditions	2014	Swansea University	2,580	coI
Healthy Interactive Systems (EP/G003971/1)	2009-14	EPSRC	361,993	PI
Medical Devices	2013	Swansea University	4,119	coI
Bridging the Gaps (EP/I00145X/1)	2010-13	EPSRC	790,239	PI
eHealth Industries Innovation Centre	2010-13	Welsh Government	446,002	coI
China Healthcare Summit	2012	Swansea University	5,890	PI
Visiting Fellowship: Tu	2012	Swansea University	7,511	PI
Tully Meeting 1	2012	Swansea University	5,344	PI
Tully Meeting 2	2012	Swansea University	5,344	PI
Global Hub (EP/K004549/1)	2011-12	EPSRC	493,093	coI
iPad Calculator	2011-12	ESF	25,000	PI
Point of Care Nanotechnology (EP/G061882/1)	2009-12	EPSRC	906,522	coI
Pathways to Impact	2011	Swansea University	4,000	PI
Formal Tools (EP/F020031/1)	2008-11	EPSRC	606,346	PI
PhD Scholarship	2008-11	Microsoft Research	66,000	PI
Information-driven Healthcare (EP/F059116/1)	2008-11	EPSRC	176,183	PI
Saving the NHS with Good IT	2010	Swansea University	5,150	PI
Reason Error Masterclass	2010	Swansea University	1,000	PI
USA Trip	2010	Texas/UK	3,000	PI
USA Trip (EP/H017895/1)	2009	EPSRC	14,823	PI
Phoenix Keynote, USA	2009	Texas/UK Collaborative	3,500	PI
Leverhulme Senior Research Fellowship	2008-09	Royal Society	31,638	PI
Platform Complex Systems (GR/S73723/01)	2004-09	EPSRC	264,002	PI
USA Trip	2007	RAEng	600	PI
Visiting Fellow: Bainbridge (EP/F002327/1)	2007	EPSRC	20,196	coI

Ireland Trip	2006	Royal Society	825	PI
Wolfson Research Merit Award	2001-06	Royal Society	375,000	PI
Public Engagement (EP/D029821/1)	2005	EPSRC	19,934	PI
FIT Lab	2005	Swansea University	50,000	PI
Japan Networking (GR/S73143/01)	2004	EPSRC	17,425	PI
Visiting Fellow: Jones (GR/T06216/01)	2004	EPSRC	5,740	PI
Design Conference (GR/S55118/01)	2003	EPSRC	6,000	PI
Digital Library, continuation (GR/M81748/02)	2002-03	EPSRC	63,163	coI
India-UK N+N (GR/S08824/01)	2002-03	EPSRC	67,858	PI
Appliance Design Network (GR/N66513/01)	2001-02	EPSRC	58,467	PI
iTV network (GR/N39166/01)	2000-02	EPSRC	51,792	PI
US Trip (GR/R71467/01)	2001	EPSRC	5,927	PI
Digital Library (GR/M81748/01)	2000-01	EPSRC	127,489	coI
South Africa (Travel grant)	2000	Royal Society	2,500	PI
Erskine Fellowship: Thimbleby	1999	Erskine Programme	3,500	PI
Human Factors in Medical Uses of Virtual Reality	1998	Middlesex University	55,000	PI
Digital Libraries	1998	Middlesex University	70,000	PI
Human Factors in Medical Uses	1998	Middlesex University	55,000	coI
Internet Ethics	1997	Middlesex University	22,000	PI
Visiting Fellow: Witten (GR/L15883/01)	1996	EPSRC	2,473	PI
Interaction Design	1996	Middlesex University	8,700	PI
Web Science (GR/K79376/01)	1994-96	EPSRC	252,126	PI
Graph Theory (GR/J43110/01)	1993-94	EPSRC	46,673	PI
Distributed Databases	1990	Church of Scotland	1,000	PI
Formal Specification (GR/E/26945)	1987-90	SERC	151,125	PI
HCI Lab	1989	Stirling University	30,400	PI
Visiting Fellow: Witten (GR/F/60601)	1989	SERC	2,351	PI
Visiting Fellowship: Thimbleby (GR/E/99949)	1988	SERC	959	PI
Specification of Interactive Systems (GR/D/02317)	1985-88	SERC	134,224	coI
Interface Processor (GR/C/59932)	1984-87	SERC	30,914	PI
			Total	£12,526,038

Plus other older grants, including: PI: International Scientific Exchange Award, Canada (1991). PI: Royal Society travel grants (1982, 1983, 1986, 1990). PI: British Council travel grants (1986, 1990). PI: Natural Sciences and Engineering Research Council of Canada Scholarship (1986).

3.10 Prizes (excluding best paper prizes, which are detailed in publications list)

GE Healthcare Award for Outstanding Impact in Health and Wellbeing, 2014.

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 best paper and 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); B-Braun; 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; Huawei; 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 & workshops

Institute of Ergonomics & Human Factors Research Workshop, 2013. Safer Healthcare, Nottingham University (2 day workshop), 2012. International Standards for Usability (2x2 day workshops), for B-Braun (Swansea and Meslungen, Germany) 2012. Healthcare Masterclass (2 day workshop) with Dr K. Li, Fudan University, China, 2012. Workshop on HCI for Medicine and Health Care (HCI4MED), 2008. Research Methods for HCI, 2008. 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, Euro-Graphics'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; Chief Scientist Office Healthcare Improvement Committee; CNAA; 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 Academy of Engineering; 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; Health Informatics Journal; 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 586 invited publications are indicated by †. The main author or authors are in **bold**, otherwise all authors equally share credit.

4.1 Journal papers: refereed

- H. Thimbleby**, “Safer user interfaces: A case study in improving number entry,” *IEEE Transactions on Software Engineering*, in press.
- A. Lewis, H. Thimbleby and J. Williams, “Making healthcare safer by understanding, designing and buying better IT,” *Clinical Medicine*, in press.†
- H. Thimbleby**, “Human factors and missed solutions to Enigma design weaknesses,” *Cryptologia*, in press.
- K. Li and H. Thimbleby, “Hot Cheese: A Processed Swiss Cheese Model,” *Journal of the Royal College of Physicians Edinburgh*, **44**(2), pp. 116–21, doi:10.4997/JRCPE.2014.205, 2014.
- H. Thimbleby**, “Processing Storage and Display of Physiological Measurements,” *Anaesthesia and Intensive Care Medicine*, **15**(7), pp. 340–343, doi:10.1016/j.mpaic.2014.04.021, 2014.†
- H. Thimbleby**, “Technology and the Future of Healthcare,” *Journal of Public Health Research*, **2**(e28), pp. 160–167, doi:10.4081/jphr.2013.e28, 2013.†
- C. Acharya**, A. Lewis, V. Manchaiah and H. Thimbleby, “Hearing Aid Battery Ingestion: Medical Error or Poor Design?”, *BAA Magazine, British Academy of Audiology*(31), pp. 27–28, 2014.
- P. Lee, C. Monroy Aceves, P. Oladimeji and H. Thimbleby, “Are Prescribed Infusions Running as Intended? Quantitative Analysis of Log Files from Infusion Pumps Used in a Large Acute NHS Hospital,” *British Journal of Nursing, CareFusion Supplement*(July), pp. 15–21, 2013.
- H. Thimbleby**, “Improve Safety by Looking for ‘Wheel Nut Indicators’,” *Journal of the Institute of Decontamination Sciences: Medical Device Decontamination*, **18**(1), pp. 42–43, 2013.
- H. Thimbleby**, “Targeting The Fitts Law,” *ACM Interactions*, **XX**(1), pp. 12–13, doi:10.1145/2405716.2405720s, 2013.
- E. Bernstam, J. Herskovicd, T. Johnson, E. Markowitz and H. Thimbleby, “SYFSA: A Framework for Systematic Yet Flexible Systems Analysis,” *Journal of Biomedical Informatics*, **46**(4), pp. 665–675, doi:10.1016/j.jbi.2013.05.003s, 2013.
- A. Cauchi, P. Curzon, A. Gimblett, Y. Li, P. Masci, P. Oladimeji, R. Rukšėnas and H. Thimbleby, “The Benefits of Formalising Design Guidelines: A Case Study on the Predictability of Drug Infusion Pumps,” *Innovations in Systems and Software Engineering*, pp. 1–21, doi:10.1007/s11334-013-0200-4, 2013.

- H. Thimbleby**, “Action Graphs and User Performance Analysis,” *International Journal of Human-Computer Studies*, **71**(3), pp. 276–302, doi:10.1016/j.ijhcs.2012.10.014s, 2013. ★
- P. Lee, H. Thimbleby and F. Thompson, “Analysis of Infusion Pump Error Logs and Their Significance for Healthcare,” *British Journal of Nursing*, **21**(8), pp. S12–S22, 2012.
- A. Cauchi, A. Gimblett and H. Thimbleby, “Simulation to Evaluate Alternative Approaches to Blocking Use Errors,” *Proceedings Design of Medical Devices Conference, Journal of Medical Devices*, **6**(1), p. 017502, doi:10.1115/1.4026680, 2012.
- H. Thimbleby**, “Heedless Programming: Ignoring Detectable Error is a Widespread Hazard,” *Software — Practice & Experience*, **42**(11), pp. 1393–1407, doi:10.1002/spe.1141, 2012.
- G. Buchanan, **J. Pearson** and H. Thimbleby, “The Digital Reading Desk: A Lightweight Approach to Digital Note-taking,” *Interacting with Computers*, **24**(5), pp. 327–338, doi:10.1016/j.intcom.2012.03.001, 2012.
- 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.
- H. Thimbleby**, “Signposting in Documents,” *Computer Journal*, **54**(7), pp. 1119–1135, OUP, doi:10.1093/comjnl/bxq061, 2010.
- 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.2010.0112s, 2010.
- 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.
- P. Cairns and H. Thimbleby, “Affordance and Symmetry in User Interfaces,” *Computer Journal*, **51**(6), pp. 650–661, doi:10.1093/comjnl/bxm102, 2008.
- H. Thimbleby**, “Ignorance of Interaction Programming is Killing People,” *ACM Interactions*, pp. 52–57, doi:10.1145/1390085.1390098s, September+October, 2008.†
- 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.†
- H. Thimbleby**, “User Interface Design with Matrix Algebra,” *ACM Transactions on Computer-Human Interaction*, **11**(2), pp. 181–236, doi:10.1145/1005361.1005364s, 2004.
- H. Thimbleby**, “The Reduced Enigma,” *Computers & Security*, **22**(7), pp. 624–642, doi:10.1016/S0167-4048(03)00712-0s, 2003.
- H. Thimbleby**, “The Directed Chinese Postman Problem,” *Software — Practice & Experience*, **33**(11), pp. 1081–1096, doi:10.1002/spe.540s, 2003.
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- H. Thimbleby**, “HCI and Ethics,” *EPSRC Loughborough Workshop on the Future of HCI*, 2007.†
- H. Thimbleby**, “Making Formal Methods Work in HCI,” *1st International Workshop on Formal Methods for Interactive Systems*, Keynote, Macau, 2006.†
- H. Thimbleby**, “The Lansdown Lecture,” London, 2006.†
- H. Thimbleby**, “Highly Interactive Mathematical User Interfaces,” *Mathematical User-Interfaces Workshop, Fifth Mathematical Knowledge Management Conference*, Keynote, 2006.†
- H. Thimbleby**, “The Computer Science of Everyday Things,” *Faculty Lecture*, Keynote, Glasgow University, 2006.†
- H. Thimbleby**, “Digital Stories,” *ESRC Workshop on Universal Access*, Keynote, London, 2006.
- H. Thimbleby**, “Series of 3 lectures,” *Distinguished Lecture Series*, Department of Computer Science, St. Andrews University, 2006.
- H. Thimbleby**, “Designing for Usability,” *CIRCUA ESRC Conference*, 2005.
- H. Thimbleby**, “Weapons of Maths Construction,” *BT Science and Technology Seminar*, 2005.
- H. Thimbleby**, “Weapons of Maths Construction,” *Computing Science New Year Lecture*, Glasgow University, 2005.†
- H. Thimbleby**, “Knowing Computer Technology,” *Christians in Science Annual Conference*, Keynote, 2004.†
- H. Thimbleby**, “Quality Research and Ethics,” *EPSRC ‘EQUAL’ Conference*, Keynote, London, 2004.†
- H. Thimbleby**, “The Little Book of Research,” *Leeds Metropolitan University Research Day*, Keynote, 2002.†
- H. Thimbleby**, “Design Probes,” *Xootic Symposium on Pervasive Computing*, Keynote, 2001.†
- H. Thimbleby**, “Symmetry and Affordance,” *Xootic Symposium on Pervasive Computing*, Keynote, 2001.†
- H. Thimbleby**, “Just Programming,” *Sixth International Conference on Object-Oriented Information Systems, OOIS2000*, Keynote, 2000.†
- H. Thimbleby**, “Killer User Interfaces,” *WAP und Mobile eCommerce*, Keynote, Frankfurt, 2000.†

- H. Thimbleby**, “What is The Computer Medium?”, *Multi-viewpoint, Shaping the Human-Computer Interface*, Keynote, Design Research Society Conference, 1998.†
- H. Thimbleby**, “Future Internet Issues,” *Internet: Opportunity or Threat?*, Keynote, Coventry, Institute of World Concerns, 1996.†
- H. Thimbleby**, “3D Creativity for the Web,” *International Conference, 3D and Multimedia, WWW and Networks*, Keynotes, 1996.
- H. Thimbleby**, “The Challenge of Technological Hubris,” *ετ’94 Conference*, Keynote, CCTA (Government Office: Government Centre for Information Systems, 1994.†
- H. Thimbleby**, “Can Humans Think?”, *The Ergonomics Society Annual Lecture, The Ergonomics Society Lecture*, Keynote, 1991.†

4.18 Unrefereed exhibitions

- H. Thimbleby and W. Thimbleby, “See the future . . . Tomorrow’s technology today,” *National Waterfront Museum*, Swansea, 2005.
- H. Thimbleby and W. Thimbleby, “A Gesture-based Calculator,” *Rags to Riches, Royal Society*, London, 2004.

4.19 Gresham College lectures

- H. Thimbleby**, *Designing IT to Make Healthcare Safer*, Gresham Colleges, 11 February 2014.
- H. Thimbleby**, *Avoiding Death by Computer*, Gresham Colleges, 28 September, 2009.
- H. Thimbleby**, *Better Programming*, Gresham Colleges, 13 May, 2004.
- H. Thimbleby**, *Computer Circles*, Gresham Colleges, 26 February, 2004.
- H. Thimbleby**, *Plugging Computers In*, Gresham Colleges, 27 November, 2003.
- H. Thimbleby**, *Magic Pictures*, Gresham Colleges, 30 October, 2003.
- H. Thimbleby**, *Unplugging Computers*, Gresham Colleges, 9 October, 2003.
- H. Thimbleby**, *Design by Symmetry*, Gresham Colleges, 27 March, 2003.
- H. Thimbleby**, *From Lego, Java and Mathematica to feature interaction*, Gresham Colleges, 13 March, 2003.
- A. Blandford and H. Thimbleby, *Designing for Humans*, Gresham Colleges, 13 February, 2003.
- H. Thimbleby**, *Designing Microwave Cookers*, Gresham Colleges, 26 January, 2003.
- H. Thimbleby**, *Designing Gadgets*, Gresham Colleges, 26 September, 2002.
- H. Thimbleby**, *Designing Mobile Phones*, Gresham Colleges, 28 November, 2002.
- H. Thimbleby**, *1,000 Years of Calculators*, Gresham Colleges, 21 November, 2002.
- H. Thimbleby**, *Design Creativity with Maths*, Gresham College, 26 September, 2002.
- H. Thimbleby**, *Computer Viruses*, Gresham Colleges, 21 March, 2002.
- H. Thimbleby**, *Modern Cryptography*, Gresham Colleges, 28 February, 2002.
- H. Thimbleby**, *Conventional Cryptography*, Gresham Colleges, 21 February, 2002.
- H. Thimbleby**, *Future Computers*, Gresham Colleges, 24 January, 2002.
- H. Thimbleby**, *From Henry Briggs to Modern Calculators*, Gresham Colleges, 29 November, 2001.
- H. Thimbleby**, *The Computer Science of Everyday Things*, Gresham Colleges, 15 October, 2001.

4.20 Invited conference presentations

- H. Thimbleby**, “System causes of error and how to start fixing them,” Glasgow, 2013.†
- H. Thimbleby**, “Using ICT for safer and more effective healthcare,” *Grenoble Interdisciplinary Days 2013*, Grenoble, 2013.†

- H. Thimbleby**, “Our equipment isn’t safe, and how to start fixing it,” *Advanced Critical Care Practitioners 1st National Conference*, Royal College of Anaesthetists, London, 2013.†
- H. Thimbleby**, “Bad Design to Die For,” TEDx River Tawe, 2013.†
- H. Thimbleby**, “Human error is not the problem,” Central Sterilising Club Annual Scientific Meeting, Bristol, UK, 2013.†
- H. Thimbleby**, “The science of HCI,” *Designing Digital Futures Workshops*, Sony, Pencoed, 2011.†
- H. Thimbleby**, “The science of HCI,” *Designing Digital Futures Workshops*, Ty Menai, Bangor, 2011.†
- H. Thimbleby**, “Poor system design: A hidden problem in patient safety,” Aberdeen University/NHS Grampian Patient Safety Guest Lecture Series, 2010.†
- R. Beale and H. Thimbleby, “Saving people by design,” *E-Health Insider Conference*, Birmingham, 2010.†
- H. Thimbleby**, “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.†
- H. Thimbleby**, “State Machine Engineering,” *IFIP WG 2.7/13.4 User Interface Engineering, Open Problems in User Interface Engineering Workshop*, London, 2009.†
- H. Thimbleby**, “Error and misplaced liability for error at the sharp end,” *2nd. European Workshop on Education and Training for Patient Safety*, University of Warwick, 2009.†
- H. Thimbleby**, “The National Research Scene,” *EPSRC Workshop on Grand Challenges in Information Driven Health*, 2009.
- H. Thimbleby**, “Interactive medical devices,” *Clinical Systems Improvement Open Seminar*, Warwick Medical School, 2009.†
- H. Thimbleby**, “Devices don’t detect errors: What if they could?,” *Workshop on Interactive Medical Devices*, UCL, 2009.†
- H. Thimbleby**, “Grand Challenges in Human Error,” *Natural Computing Applications Forum, NCAF*, 2009.†
- H. Thimbleby**, “Grand Challenges in eHealth,” *Panel, ACM CHI*, Boston, USA, 2009.†
- H. Thimbleby**, “Understanding Interactive Medical Devices,” *MediWales Seminar*, Cardiff, 2009.†
- H. Thimbleby**, “Understanding and Reducing Designed-in IT Errors in Healthcare,” *Hospital of the Future Workshop*, Oxford University, 2008.†
- H. Thimbleby**, “New Approaches to Dosage Calculation and How They Can Reduce Errors,” *Healthcare Extensions Technologies*, UCL, London, 2008.†
- H. Thimbleby**, “TippingPoint Germany 2008,” *Potsdam Institute for Climate Impact Research and British Council*, Berlin, 2008.†
- H. Thimbleby**, “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.†
- H. Thimbleby**, “User Generated Content: The Grand Challenges,” *Royal Society/National Research Foundation South African Workshop on User Generated Content for Developing Countries*, Cape Town, 2008.†
- H. Thimbleby**, “Lecture series: TATA Excellence in Computer Science Week,” Pune, India, 2008.†
- H. Thimbleby**, “Powerful interactive calculators,” TECHFEST, Mumbai, 2008.†
- H. Thimbleby**, “Architects or Builders?,” *HCIed 2008: Architecting The Future*, Rome, 2008.†
- H. Thimbleby**, “Digital Stories,” *Royal Society/NRF Conference, User-Generated Content Systems and Services for Developing Country Contexts*, Cape Town, South Africa, 2008.†
- H. Thimbleby**, “Building the Future with Weapons of Maths Construction,” *Glasgow University Lecture*, Glasgow, 2006.†
- H. Thimbleby**, “Schools Lecture,” *Glasgow University Lecture*, Glasgow, 2006.†
- H. Thimbleby**, “Alterando il destino dell’umanità,” Due Mondi Spoleto Festival, Italy, 2005.†
- H. Thimbleby**, “Creative future technologies,” The Creative Technology Sector and Near

- Future Workshop, Colwyn Bay, 2005.†
- H. Thimbleby**, “Future Relation of People and Computers,” Swansea Science Café, 2005.†
- H. Thimbleby**, “Tenantspin & tagging,” Cardiff Festival of Creative Technology, 2005.†
- H. Thimbleby**, “Bring the past to life and preserve today for tomorrow,” National Waterfront Museum, 2005.†
- H. Thimbleby**, “Multidisciplinary Research,” *20 Years of HCI*, Loughborough, 2004.†
- H. Thimbleby**, “Communicating Science Honestly,” *Royal Society/British Association Conference on Communicating Science*, London, 2004.†
- H. Thimbleby**, “Interactive Television,” *Londonone: iTV Conference*, London, 2002.†
- H. Thimbleby**, “From Logs to Calculators,” *1000 Years of British Mathematics*, Royal Institution, 2001.†
- H. Thimbleby**, “UCL Interaction Centre,” *Natural History Museum*, London, 2001.†
- H. Thimbleby**, “Automating Manuals,” *Bluecoat Conference*, London, 2001.†
- H. Thimbleby**, “AI as Applied Justice,” *Feats and Frontiers, An International AI Symposium in Memory of Sidney Michaelson*, Edinburgh, 2001.†
- H. Thimbleby**, “Justice and Programming,” IFIP 9.2.2, Namur, Belgium, 2001.†
- H. Thimbleby**, “UK HCI: Public and Private Thoughts,” *Fourth Workshop on Effective Training and Education in HCI*, 2001.†
- H. Thimbleby**, “Computer Viruses,” *National Residential Conference for Heads of Information Technology and Computing in Further Education Colleges*, 2001.†
- P. Cairns and H. Thimbleby, “Thoughts on User Interface Patterns,” *Patterns in Human Computer Interaction, IFIP WG13.2/BCS HCI Group*, 2000.†
- H. Thimbleby**, “Trust Panel,” *ACM CHI*, Amsterdam, 2000.†
- H. Thimbleby**, “Mobile Phones,” *Design for Usability*, London, 2000.†
- H. Thimbleby**, “EPSRC Workshop,” *Handheld and Ubiquitous Computing, HUC2k*, 2000.†
- H. Thimbleby**, “Hertfordshire Arts Umbrella Web Site,” *Conference on The Arts and The Environment, Herts Arts Umbrella*, 2000.†
- H. Thimbleby**, “User Centred Tools,” *Workshop on User Centred Design, Interact’99*, Edinburgh, 1999.†
- H. Thimbleby**, “Commentary on P. Ladkin’s “Ursachenanalyse von Unglücksfällen in Luftverkehr”,” *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.†
- P. Duquenoy and H. Thimbleby, “Justice and Design,” IFIP 9.2.2, Namur, Belgium, 1999.†
- H. Thimbleby**, “Internet Ethics,” IFIP 9.2.2 Namur, 1998.†
- H. Thimbleby**, “Making Computing Exciting,” *First Workshop on the Design of Hypermedia*, CERN, Geneva, 1998.†
- H. Thimbleby**, “Panel,” *Workshop on User Interfaces for Theorem Provers*, Eindhoven, 1998.†
- H. Thimbleby**, “Internet and Unity,” *Unity’97: Multicultural Festival for European Year Against Racism*, 1997.†
- H. Thimbleby**, “Visualising The Future,” BT, Martlesham, 1997.†
- H. Thimbleby**, “Internet and Unity,” *Unity’97: Multicultural Festival for European Year Against Racism*, 1997.†
- H. Thimbleby**, “Personal Boundaries/Global Stage,” IEE 20/20 Vision Conference on Morality in the Information Society, 1997.†
- H. Thimbleby**, “Internet Ethics,” Edinburgh International Science Festival, 1997.†
- H. Thimbleby**, “Interactive devices,” Science Prestige Lecture, University of Canterbury, Christchurch, New Zealand, 1997.†
- H. Thimbleby**, “EPSRC Panel,” *BCS Conference on People and Computers, HCI’97*, Bristol, 1997.†
- H. Thimbleby**, “Systematic Web Authoring,” *The Missing Link: Hypermedia Usability Research & The Web*, Open University, 1996.†
- H. Thimbleby**, “Digital cryptography,” Edinburgh International Science Festival, 1996.†

- H. Thimbleby**, “Benjamin Franklin,” Conference of Professors and Heads of Electrical Engineering, 1996.†
- H. Thimbleby**, “Future of the Internet,” Science Engineering Technology, SET’96, 1996.†
- H. Thimbleby**, “3D Illusions,” Science Engineering Technology, SET’96, 1996.†
- H. Thimbleby**, “Computers and Communications,” *British Association for Advancement of Science Annual Conference*, Newcastle, 1995.
- H. Thimbleby**, “Calculators: 3D Pictures,” Edinburgh International Science Festival, 1994.
- H. Thimbleby**, “Calculators: Autostereograms,” Use Your Head Society, 1994.
- H. Thimbleby**, “‘Fifth Generation’ User Interfaces: The Way Ahead For Complex Systems,” *BCS Conference on People and Computers, HCI’94 Demonstration Session*, 1994.
- M. A. Addison and H. Thimbleby, “Hyperdoc Demonstration,” *BCS Conference on People and Computers, HCI’94 Demonstration Session*, 1994.
- H. Thimbleby**, “Interaction Style,” *BCS Electronic Publishing Specialist Group Conference*, 1993.†
- H. Thimbleby**, “New Consumer Interfaces,” *BCS Conference on People and Computers, Industrial Programme, VIII*, 1993.
- H. Thimbleby**, “Calculators: Controversy & Deception,” Edinburgh International Science Festival, 1993.
- H. Thimbleby**, “Formulating Usability,” *Workshop on Formal Methods for the Design of Interactive Systems*, York, 1993.†
- H. Thimbleby**, “Calculators: Science for Technophobics,” Edinburgh International Science Festival, 1993.
- H. Thimbleby**, “Calculators: Designing Easy to Use Gadgets,” IEE Surrey Region AGM Lecture, 1993.
- H. Thimbleby**, “Usability by Design,” *Conference on Open Systems, Scottish Enterprise/Forth Valley Enterprise Conference*, 1992.†
- H. Thimbleby**, “Why Are Children Better At Using Video Recorders Than Their Parents?,” *British Association for Advancement of Science Annual Conference*, Bristol, 1993.
- H. Thimbleby**, “Principles for User Enhanceable Systems,” *Department of Trade and Industry User Enhanceable Systems Programme*, London, 1992.†
- H. Thimbleby**, “Human Computer Interfaces,” *The Scottish Computer Show*, Glasgow, 1992.†
- H. Thimbleby**, “Video Recorders Adults Can Use,” *Edinburgh International Science Festival*, Edinburgh, 1992.†
- H. Thimbleby**, “New Approaches to Design,” *Second Joint Research Council Summer School*, London, 1991.†
- H. Thimbleby**, “HyperCard: An Object-Oriented Disappointment,” *Joint meeting of BCS HCI and OOPS Specialist Groups*, Glasgow, 1991.†
- H. Thimbleby**, “The Main Problem in HCI,” *Panel Session, BCS Conference on People and Computers, HCI’91*, Edinburgh, 1991.†
- H. Thimbleby**, “Computers Have No ‘Special Needs’ Yet They Can Hardly Use Anything,” *Workshop on Human-Computer Interaction and Users with Special Needs*, York, 1991.†
- H. Thimbleby**, “Computer Viruses or Free Speech?,” Edinburgh International Science Festival, 1991.
- H. Thimbleby**, “JCI Database (software demonstration)?,” Joint Research Councils’ Initiative Meeting, 1991.
- H. Thimbleby**, “Humans are Computers Too!,” Edinburgh International Science Festival, 1991.†
- H. Thimbleby**, “Artificial Life,” *St. Andrew’s Diocesan Conference*, 1990.†
- H. Thimbleby**, “Bugs in HyperCard,” *Joint Research Council Summer School*, Edinburgh, 1990.†
- H. Thimbleby**, “Calculators: Putting Computer Viruses to Good Use!,” Edinburgh International Science Festival, 1990.
- H. Thimbleby**, “Using Menus,” *Scottish HyperCard Users’ Group Meeting*, 1990.†
- H. Thimbleby**, “Panel,” Edinburgh International Science Festival, 1990.†
- H. Thimbleby**, “Information Technology: High Technology and a Risk Activity,” *Comett*

- Workshop*, Montpellier, 1990.†
- H. Thimbleby**, “Computer Viruses (panel),” *Second International Artificial Life Conference*, Santa Fe, USA, 1990.†
- H. Thimbleby**, “Computer Viruses,” *Computer Support for Teaching Workshop*, Stirling University, 1989.†
- H. Thimbleby**, “Simple Algebraic Properties of Interfaces,” *Reasoning about Interaction, Alvey Workshop*, York, 1989.†
- H. Thimbleby**, “Calculators: Bugs,” Edinburgh International Science Festival, 1989.
- H. Thimbleby**, “User vs Designer: The Case of Bugs,” *Computers—Visions for the Future*, Canon Research Europe, 1989.†
- H. Thimbleby**, “Formal Methods in HCI,” *IFIP Workshop*, 1989.†
- H. Thimbleby**, “User Models,” *BCS Conference on Expert Systems’88*, Brighton, 1988.†
- H. Thimbleby**, “Author’s Cross Referencing,” *BCS Software Engineering Specialist Group*, Manchester, 1988.†
- H. Thimbleby**, “SIRUP: A SIR Utility Program,” *Elliott Computer Users’ Group Annual Meeting*, 1976.†

4.21 Invited lectures and seminars

- H. Thimbleby**, “Healthcare’s IT Crisis, Informatics Grand Rounds Lecture,” Johns Hopkins University, Baltimore, 2014.†
- H. Thimbleby**, “Computers and Devices as Team Players in Hospitals???” , San Francisco General Hospital, California, 2014.†
- H. Thimbleby**, “At Least You Can Trust Your Calculator — Or Can You?”, Johns Hopkins University, Baltimore, 2014.†
- H. Thimbleby**, “The World War II Enigma,” Swansea Sketty Club, 2014.†
- H. Thimbleby**, “Overview of Human-Computer Interaction,” Lingnan University, Hong Kong, 2014.†
- H. Thimbleby**, “Safer healthcare IT,” Microsoft Research, UK, 2014.†
- H. Thimbleby**, “Safer Healthcare IT,” Cambridge University, 2014.†
- H. Thimbleby**, “Safer versus Security in Healthcare IT,” Cambridge University, 2014.†
- P. Masci and H. Thimbleby, “Broken Interfaces,” US Food and Drug Administration (FDA), MD, USA, 2014.†
- H. Thimbleby**, “Safety and the Design of Devices,” Royal College of Physicians, London, 2013.†
- H. Thimbleby**, “Improving Healthcare for Everyone by Understanding Humans and Technology,” Lingnan University, Hong Kong, 2013.†
- H. Thimbleby**, “Improving Healthcare for Everyone,” Hong Kong Ergonomics Society, Hong Kong, 2013.†
- H. Thimbleby**, “Toast to the College,” Royal College of Physicians, Edinburgh, 2013.†
- H. Thimbleby**, “Security and Safety Overlaps,” Reykjavik University, Iceland, 2013.†
- H. Thimbleby**, “Testing Safe Interaction,” TEDx, 2013.†
- H. Thimbleby**, “Identifying fixable problems in healthcare IT,” Mater Dei hospital, Malta, 2013.†
- H. Thimbleby**, “Designing to Make Error Visible,” University of Malta, 2013.†
- H. Thimbleby**, “Social Network Analysis and Interactive Device Design Analysis,” Networks Research Group, Swansea University, 2013.†
- H. Thimbleby**, “Traffic lights for medical device input,” US Food and Drug Administration (FDA), MD, USA, 2013.†
- H. Thimbleby**, “Human Error Is Not The Problem,” University of Kentucky, KY, USA, 2013.†
- H. Thimbleby**, “Human Error Is Not The Problem,” University of Maryland, MD, USA, 2013.†
- H. Thimbleby**, “Human Error Is Not The Problem,” University of Pennsylvania, PA, USA, 2013.†
- H. Thimbleby**, “Human Error Is Not The Problem,” Fraunhofer Institute, Mannheim,

- Germany, 2012.†
- H. Thimbleby**, “Interactive Numbers,” SRI International, San Francisco, 2012.†
- H. Thimbleby**, “Welsh Computer Science,” Wales Science Advisory Committee, 2012.†
- H. Thimbleby**, “Re-affordance — taking affordance into interaction,” Smith-Kettlewell Eye Research Institute, 2012.†
- H. Thimbleby**, “Designing safer medical devices,” Queen Mary, London, 2012.†
- H. Thimbleby**, “Thinking about Computers,” A*Star (Agency for Science, Technology and Research), Singapore, 2012.†
- H. Thimbleby**, “Successful research strategies,” Health Communication and Information Strategic Initiative, Singapore, 2012.†
- H. Thimbleby**, “Safer Medical Systems,” Nanyang Technological University, Singapore, 2012.†
- H. Thimbleby**, “Numbers, Numbers Everywhere, and None you can Trust — Not Yet!”, Cardiff Scientific Society, 2011.†
- H. Thimbleby**, “Avoiding death by computer,” Swansea Science Café, 2011.†
- H. Thimbleby**, “Computer Science,” Cadbury College, Birmingham, 2011.†
- H. Thimbleby**, “‘Human error’ in Automated Medical Systems,” BCS Mid Wales AGM, 2011.†
- H. Thimbleby**, “Designing Safer Systems,” Shanghai Jiao Tong University, 2011.†
- H. Thimbleby**, “Seeing Bugs in Systems,” Fudan University, 2011.†
- H. Thimbleby**, “Designing Safer Systems,” Nanjing University, 2011.†
- H. Thimbleby**, “Computer Systems and Human Error,” UCL, 2011.†
- H. Thimbleby**, “Computational approaches to reducing error,” Stanford Research Institute, 2011.†
- H. Thimbleby**, “Avoiding computer-provoked ‘human error’ in medical systems,” Health Sciences and Technology, MIT, 2011.†
- H. Thimbleby**, “Tools and techniques for analysing medical devices,” UCL, 2011.†
- H. Thimbleby**, “Secrets of Extreme Research,” Welsh Crucible, 2011.†
- H. Thimbleby**, “Interactive numbers,” City University, 2011.†
- H. Thimbleby**, “Helping industry, Helping healthcare, Doing engineering, Pushing science?”, UCL, 2011.†
- H. Thimbleby**, “Rules for dependable number entry,” UCL, 2011.†
- H. Thimbleby**, “Unseen bugs: Reducing mortality,” Brunel University, 2011.†
- H. Thimbleby**, “Num63r bug5,” Sussex University, 2011.†
- H. Thimbleby**, “Reducing Mortality from IT Bugs,” University of California at Berkeley, 2011.†
- H. Thimbleby**, “Using digital stories for research and learning,” George Ewart Evans Centre for Storytelling, Glamorgan, 2010.†
- H. Thimbleby**, “Research collaboration,” Middlesex University, 2010.†
- H. Thimbleby**, “From machine guns to traffic lights,” Middlesex University, 2010.†
- H. Thimbleby**, “How to write research,” UCL, 2010.†
- H. Thimbleby**, “Problems in human error—Problems are everywhere,” University of Cardiff, 2010.†
- H. Thimbleby**, “Extreme research,” Georgia Tech, Atlanta, USA, 2010.†
- H. Thimbleby**, “Safer by numbers,” Georgia Tech, Atlanta, USA, 2010.†
- H. Thimbleby**, “Impossible Errors,” Cognitive Match, London, 2010.†
- H. Thimbleby**, “Science fights ignorance and computer science saves lives (or you should stay out of hospital until it does),” Christ College Brecon, 2009.†
- H. Thimbleby**, “Misunderstood human error and some consequences,” Psychology Department, Swansea University, 2009.†
- H. Thimbleby**, “Avoiding death by computer,” University of Pennsylvania, 2009.†
- H. Thimbleby**, “Killer applications? Simple but widespread programming problems that are usually ignored,” MIT, 2009.†
- H. Thimbleby**, “Devices encourage errors—What if they detected them too?”, University of Texas at Houston, 2009.†
- H. Thimbleby**, “Keynote notes,” Apple Computer, Pittsburgh, 2009.†
- H. Thimbleby**, “Killer applications in hospitals,” University of Manchester, 2009.†

- H. Thimbleby**, “Saving lives with science,” Royal Society, 2009.†
- H. Thimbleby**, “From research to writing,” UCL, 2009.†
- H. Thimbleby**, “Dependable interactive devices, why we need them, how to get them,” UCL, 2009.†
- H. Thimbleby**, “Moving from user interface design to interaction programming,” MIT, 2009.†
- H. Thimbleby**, “How CS is science,” Royal Society, 2009.†
- H. Thimbleby**, “Avoiding designed-in errors in interactive medical devices,” Engineering Department, University of Cambridge, 2009.†
- H. Thimbleby**, “User error—The interaction programming view,” University of Texas at Houston, 2009.†
- H. Thimbleby**, “Interactive medical device design,” Georgia Tech, Atlanta, 2009.†
- H. Thimbleby**, “Best of people and computers,” Georgia Tech, Atlanta, 2009.†
- H. Thimbleby**, “Reproducible research,” Awarehome, Georgia Tech, Atlanta, 2009.†
- H. Thimbleby**, “Interaction programming in use,” Microsoft Research, Bangalore, 2008.†
- H. Thimbleby**, “Designing Interactive Systems,” Bombay Indian Institute of Technology (BIIT), Mumbai, 2008.†
- H. Thimbleby**, “Life, death & computer science,” Aberystwyth, 2008.†
- H. Thimbleby**, “Life & death issues with compiling,” Wolverhampton, 2008.†
- H. Thimbleby**, “Reducing designed-in errors,” Birmingham University, 2008.†
- H. Thimbleby**, “Understanding designed-in errors in interactive devices,” Newcastle University, 2008.†
- H. Thimbleby**, “The Usability of Medical Devices,” University of Bielefeld, Germany, 2007.†
- H. Thimbleby**, “A New Slice of Cheese,” University of Surrey, 2007.†
- H. Thimbleby**, “Improving Interactive Systems,” Hamilton Institute, Ireland, 2007.†
- H. Thimbleby**, “A New Sort of Calculator,” University of California at Berkeley, 2007.†
- H. Thimbleby**, “A New Sort of Calculator,” MIT, 2007.†
- H. Thimbleby**, “A New Sort of Calculator,” Tufts University, Boston, USA, 2007.†
- H. Thimbleby**, “Problems and Solutions with Simple Interactive Devices,” 2007.†
- H. Thimbleby**, “Digital Stories,” Stanford University, USA, 2007.†
- H. Thimbleby**, “Press On,” Taliesin Theatre, Swansea, 2007.†
- H. Thimbleby**, “Thinking out of the Computer Science Cargo Cult Box,” St. Andrews University, 2006.
- H. Thimbleby**, “The Cargo Cult of Everyday Computing (And a Cure),” St. Andrews University, 2006.
- H. Thimbleby**, “The Cargo Cult of Mobile Phones (And a Cure),” St. Andrews University, 2006.
- H. Thimbleby**, “The Cargo Cult of Calculators (And a Cure),” St. Andrews University, 2006.
- H. Thimbleby**, “The Cargo Cult of Scientific Computing (And a Cure),” St. Andrews University, 2006.
- H. Thimbleby**, “Science Café,” Welsh National Eisteddfod, 2006.†
- H. Thimbleby**, “Calculators,” Welsh National Eisteddfod, 2006.†
- H. Thimbleby**, “Schools Lecture,” Glasgow University, 2006.†
- H. Thimbleby**, “Hands-on calculators,” National Waterfront Museum, Wales, 2006.†
- H. Thimbleby**, “Interaction Technology and Its Impact on Science,” Department for Environment, Food and Rural Affairs (DEFRA), 2006.†
- H. Thimbleby**, “Digital Stories for UCD,” Microsoft Research Cambridge, 2006.†
- H. Thimbleby**, “Reliable software publishing,” Newcastle University, 2006.†
- H. Thimbleby**, “Science Café,” Swansea, 2006.†
- H. Thimbleby**, “New Computer User Interfaces,” St. Andrews University, 2006.†
- H. Thimbleby**, “A chance to change the world with a new user interface,” Nottingham University, 2005.†
- H. Thimbleby**, “New approaches to interaction: the case of the calculator,” with W. Thimbleby, Cardiff University, 2005.†
- H. Thimbleby**, “Bad (computer) Science,” Bangor University, 2005.†

- H. Thimbleby**, “Varieties of HCI,” UCL, 2005.†
- H. Thimbleby**, “Cargo Cult Computer Science,” Glasgow University, 2005.†
- H. Thimbleby and W. Thimbleby**, “New Calculators,” London Knowledge Laboratory, 2005.†
- H. Thimbleby and W. Thimbleby**, “New Calculators,” Oxford University, 2005.†
- H. Thimbleby**, “See the future . . . Tomorrow’s technology today,” Exhibition in National Waterfront Museum, 2005.†
- H. Thimbleby**, “Building the Future with Weapons of Maths Construction,” Glasgow University Lecture, 2005.†
- H. Thimbleby**, “Mud and Maths,” Royal Institution, London, 2004.†
- H. Thimbleby**, “Computer Programming,” Hampstead Scientific Society, London, 2004.†
- H. Thimbleby**, “Mobile Phones,” London Nautical School, 2004.†
- H. Thimbleby**, “Building the Future with Weapons of Maths Construction,” Open University, 2004.†
- H. Thimbleby**, “Fixing Calculators,” Newcastle University, 2004.†
- H. Thimbleby**, “Cargo Cult Computer Science,” Open University, 2004.†
- H. Thimbleby**, “User Interface Design,” Lancaster University, 2003.†
- H. Thimbleby**, “Surviving Culture Clash,” Swansea University, 2003.†
- H. Thimbleby**, “Doing computer science better,” Birkbeck College, 2003.†
- H. Thimbleby**, “How and why to make computer science better,” Brunel University, 2003.†
- H. Thimbleby**, “Safer Calculators,” UCL Lunch Time Lecture, 2003.†
- H. Thimbleby**, “Digital Cryptography,” UCL Science Society, 2003.†
- H. Thimbleby**, “Maths in Action,” Royal Institution, London, 2003.†
- H. Thimbleby**, “Warfare and Modern Cryptography,” UCL Science Society, London, 2003.†
- H. Thimbleby**, “Mobile Phones,” St. Paul’s Girls School, London, 2002.†
- H. Thimbleby**, “Computer Science of Everyday Things,” Otago University, New Zealand, 2002.†
- H. Thimbleby**, “Tour of New Zealand Universities: Talks On Computer Science Research and Cryptography,” Lecture Tour, 10 lectures, in each NZ university, 2002.†
- H. Thimbleby**, “Symmetry,” Nanyang Technological University, Singapore, 2002.†
- H. Thimbleby**, “Revolting calculators,” Invariant Society, Oxford University, 2002.†
- H. Thimbleby**, “Public Key Cryptography,” Middlesex University, 2002.†
- H. Thimbleby**, “Hands-on Cryptography: How the Internet Changes the Rules,” Science Centre, Mathematical & Physical Sciences Faculty Lecture, UCL, 2002.†
- H. Thimbleby**, “Justice and Programming,” BCS Ethics Committee, London, 2001.†
- H. Thimbleby**, “Ubiquitous Computing and The Challenge of Global Justice,” Regent’s Park College (Oxford University) series in Technology and Culture from a Christian Perspective, 2001.†
- H. Thimbleby**, “Affordance & Symmetry,” Human-Computer Interaction Institute, Carnegie Mellon University, USA, 2001.†
- H. Thimbleby**, “Ticket Machines and Ubiquitous Computing,” Aware Home Research Initiative, Georgia Institute of Technology, 2001.†
- H. Thimbleby**, “Symmetry,” Georgia Institute of Technology, Atlanta, USA, 2001.†
- H. Thimbleby**, “User Interface Design,” George Mason University, USA, 2001.†
- H. Thimbleby**, “Challenges in HCI,” Tufts University, Boston, USA, 2001.†
- H. Thimbleby**, “Future Personal Technologies,” Tufts University, Boston, USA, 2001.†
- H. Thimbleby**, “Symmetry & Affordance,” University of Cape Town, South Africa, 2001.†
- H. Thimbleby**, “Ubiquitous User Interfaces,” University of Bath, 2001.†
- H. Thimbleby**, “Computer Science and Everyday Things,” de Montfort University, 2001.†
- H. Thimbleby**, “Affordance and User Interface Design,” University College London, 2001.†
- H. Thimbleby**, “Computer Ethics,” House of Lords, London, 2000.†
- H. Thimbleby**, “Computer Science of Everyday Things,” Stellenbosch University, South Africa, 2000.†
- H. Thimbleby**, “The Crisis in Computer Science,” Stellenbosch University, South Africa, 2000.†
- H. Thimbleby**, “Contributions from Computing,” University of South Africa, 2000.†
- H. Thimbleby**, “Computer Science of Everyday Things,” University of Cape Town, South

- Africa, 2000.†
- H. Thimbleby**, “Computer Science of Everyday Things,” Cambridge University, 2000.†
- H. Thimbleby**, “Interaction Design,” University of York, 2000.†
- H. Thimbleby**, “Interaction Design,” Microsoft Research, Cambridge, 2000.†
- P. Cairns and H. Thimbleby, “Computer Viruses,” Kings College London, 1999.†
- H. Thimbleby**, “Review of Research,” University of Rome, La Sapienza, Rome, Italy, 1999.†
- H. Thimbleby**, “On Discerning Users,” Royal Institute of Technology, Sweden, 1999.†
- H. Thimbleby**, “Inspiration, Insight, Influence,” Rutgers University, USA, 1999.†
- H. Thimbleby**, “Interactive Design,” Centre for Electronic Arts, London, 1999.†
- H. Thimbleby**, “Analytic Approaches to User Interfaces,” Southampton University, 1999.†
- H. Thimbleby**, “Creative and Effective Design: A Critique of the Culture of Amazing Technology,” BCS Evening Lecture at University of West of England, 1998.†
- H. Thimbleby**, “Ethics of the Internet,” Guildford Cathedral Lecture, 1998.†
- H. Thimbleby**, “Magic Pictures,” Courtyard Arts, Hertford, 1998.†
- H. Thimbleby**, “Dangerous Toys,” IEE Surrey Region AGM Lecture, 1998.†
- H. Thimbleby**, “Calculators and the Imagination,” IEE Science, Education and Technology Division Lecture, 1998.†
- H. Thimbleby**, “The Internet and the Global Stage,” Royal Melbourne Institute of Technology, Victoria, Australia, 1998.†
- H. Thimbleby**, “3D Vision,” National Association for Gifted Children, 1998.†
- H. Thimbleby**, “Internet Ethics and Security,” VIP Briefing, Investment Centre, Melbourne, Victoria, Australia, 1998.†
- H. Thimbleby**, “System Design,” Evening lecture, The Oxford Trust, 1998.†
- H. Thimbleby**, “Internet Evenings,” Chambers of Commerce, Haringey, North London, 1998.†
- H. Thimbleby**, “Morality and the Information Society,” Department of Electronic and Electrical Engineering, University College, London, 1998.†
- H. Thimbleby**, “Gadgets: Fun or Dangerous?,” Interactive Information Institute and Centre for Design, Royal Melbourne Institute of Technology, Victoria, Australia, 1998.†
- H. Thimbleby**, “Java: A Critique,” Melbourne University, Victoria, Australia, 1998.†
- H. Thimbleby**, “The Internet,” Warwick University Information Systems Seminar, 1998.†
- H. Thimbleby**, “Java,” Calgary University, 1997.†
- H. Thimbleby**, “Web Authoring,” University of Waikato, 1997.†
- H. Thimbleby**, “Web Authoring,” University of Christchurch, 1997.†
- H. Thimbleby**, “Web Authoring and Java,” Queen Mary & Westfield College, 1997.†
- H. Thimbleby**, “User Interfaces,” Cheltenham & Gloucester College, 1997.†
- H. Thimbleby**, “Cryptography,” St. Alban’s School, 1997.†
- H. Thimbleby**, “Calculators,” Canon Research Europe, 1997.†
- H. Thimbleby**, “Internet Ethics,” Shirley Methodist Church, Christchurch, New Zealand, 1997.†
- H. Thimbleby**, “Public Understanding of Science,” Middlesex University Conference on Research and Technology, 1996.†
- H. Thimbleby**, “Internet Ethics,” Reading UCCF, 1996.†
- H. Thimbleby**, “Cryptography,” Southgate Amateur Radio Club, 1996.†
- H. Thimbleby**, “The Internet Debate,” Huddersfield University, 1996.†
- H. Thimbleby**, “From Faxing to Flying: Guaranteeing Better and Safer Systems,” Philips Research Labs, Reading, 1996.†
- H. Thimbleby**, “Future of the Internet,” lecture at SET’96, 1996.†
- H. Thimbleby**, “3D Illusions,” lecture at SET’96, 1996.†
- H. Thimbleby**, “Generating Hypertext Automatically,” University College London (Computer Science), 1995.†
- H. Thimbleby**, “The Internet: Its Use and Abuse,” IMechE (Greater London Branch) Evening Lecture, London, 1995.†
- H. Thimbleby**, “From Faxing to Flying: Guaranteeing Better and Safer Systems,” IEE Evening Lecture, London, 1995.†
- H. Thimbleby**, “Mathematical Approaches to Hypertext,” Centre for Electronic Arts, 1995.†

- H. Thimbleby**, “Tools for the World Wide Web,” University College London (Ergonomics Unit), 1995.†
- H. Thimbleby**, “Opening the IT Department,” Bilton Grange School, Rugby, 1995.†
- H. Thimbleby**, “A New Calculator And Why It Is Necessary,” MRC Applied Psychology Unit, Cambridge, 1994.†
- H. Thimbleby**, “Formal User Interfaces,” Loughborough University, 1994.†
- H. Thimbleby**, “A New Calculator And Why It Is Necessary,” University of York, 1994.†
- H. Thimbleby**, “New Calculators,” Sharp Research Laboratories, 1994.†
- H. Thimbleby**, “Putting The Engineering Back Into Usability Engineering,” Hewlett Packard Laboratories, 1994.†
- H. Thimbleby**, “Finite State Machines Rehabilitated,” Glasgow University, 1994.†
- H. Thimbleby**, “Autostereograms,” St. Andrew’s University (Department of Physics), 1994.†
- H. Thimbleby**, “Talking to Machines,” Centre for Cognitive Science/Human Communication Research Centre, Edinburgh, 1994.†
- H. Thimbleby**, “The Medieval State of Computing and How to Get Beyond It,” Arthur Andersen & Co., Oslo, Norway, 1993.†
- H. Thimbleby**, “Hypertext and Finite State Machines,” University of Waikato, New Zealand, 1993.†
- H. Thimbleby**, “Hypertext and Finite State Machines,” Sheffield University, 1993.†
- H. Thimbleby**, “Creative Hypertext,” University of York, 1993.†
- H. Thimbleby**, “Generating Manuals,” Canon Research Centre Europe, 1993.†
- H. Thimbleby**, “Beyond Mere Hypertext,” Queen Mary & Westfield College, 1993.†
- H. Thimbleby**, “Statecharts,” Heriot-Watt University, 1993.†
- H. Thimbleby**, “User Interface Design,” Sharp Research Laboratories, 1992.†
- H. Thimbleby**, “Users as Programmers,” Sussex University (Cognitive Science), 1992.†
- H. Thimbleby**, “Users as Programmers,” Open University ‘distinguished lecture’ (Human Computer Research Laboratory), 1992.†
- H. Thimbleby**, “Software Rot,” Heriot-Watt University, 1992.†
- H. Thimbleby**, “Can Humans Think?,” Bristol University (Psychology Dept), 1992.†
- H. Thimbleby**, “When Monkeys Out-do Shakespeare,” Salford University, 1992.†
- H. Thimbleby**, “Where Computer Science Fails Us,” Aston University, 1991.†
- H. Thimbleby**, “Liveware,” Aldus UK, Edinburgh, 1991.†
- H. Thimbleby**, “Liveware,” IBM, Warwick, 1991.†
- H. Thimbleby**, “The Microwave,” Calgary University, 1991.†
- H. Thimbleby**, “The Video Recorder,” Calgary University, 1991.†
- H. Thimbleby**, “Video Recorders to Multimedia: Bad Computer Science,” Exeter University, 1991.†
- H. Thimbleby**, “HCI,” Logica, Cambridge, 1991.†
- H. Thimbleby**, “Viruses are Here to Stay,” Evening Lecture, Stirling University, Scotland, 1990.†
- H. Thimbleby**, “The Scottish HCI Database,” Scottish HCI Group, Heriot-Watt, 1990.†
- H. Thimbleby**, “Viruses & Cooperation,” Canon Research Europe, 1990.†
- H. Thimbleby**, “Liveware,” York University, 1990.†
- H. Thimbleby**, “User Interface,” Dundee, 1990.†
- H. Thimbleby**, “Bugs, Viruses and Liveware,” Glasgow University, 1989.†
- H. Thimbleby**, “Software Standards,” Dundee University Students’ Society, 1989.†
- H. Thimbleby**, “Delaying Commitment,” Imperial College, 1989.†
- H. Thimbleby**, “On HCI,” Stirling University, 1989.†
- H. Thimbleby**, “The Fashionable User Model,” Calgary University Open Day, Canada, 1989.†
- H. Thimbleby**, “Liveware Distribution,” Heriot-Watt HCI Centre Open Day, Scotland, 1989.†
- H. Thimbleby**, “Modes and WYSIWYG,” Calgary University, Canada, 1988.†
- H. Thimbleby**, “Cross Referencing,” Stanford University, 1988.†
- H. Thimbleby**, “The von Neumann Bottleneck,” Stanford University, 1988.†
- H. Thimbleby**, “HIC,” Xerox EuroParc, 1988.†

- H. Thimbleby, “Bugs,” Calgary University, 1988.†
- H. Thimbleby, “User Models,” Calgary University, Canada, 1988.†
- H. Thimbleby, “Liveware,” Queen Mary College, 1988.†
- H. Thimbleby, “The von Neumann Bottleneck,” York University, 1988.†
- H. Thimbleby, “User Interface Design,” University College London (Ergonomics Unit), 1988.†
- H. Thimbleby, “Review of User Interface Design,” Calgary University, 1988.†
- H. Thimbleby, “Literate Programming,” Logica, 1987.†
- H. Thimbleby, “Human–HCI–Interaction,” Edinburgh University (Computer Science), 1987.†
- H. Thimbleby, “Equal Opportunity Interaction,” Stanford University, 1986.†
- H. Thimbleby, “Non-Standard Models,” Calgary University, Canada, 1986.†
- H. Thimbleby, “Design of a Display Editor,” Eidgenössische Technische Hochschule, Zürich, 1980.†

4.22 Debates

- H. Thimbleby, “This House Believes ‘smart’ Tagging is Acceptable and Essential for Our Future,” *Ubiconf 2004*, London, 2004.
- H. Thimbleby, “This House Believes Internet Ethics Isn’t and We Should All be Anarchists,” *Real Time Club*, London, 2003.
- H. Thimbleby, “This House Believes Robots will have Free Will,” *‘Feats and Frontiers,’ An International AI Symposium in Memory of Sidney Michaelson*, Edinburgh University, 2001.
- H. Thimbleby, “This House Believes that ‘Control of the Internet by Governments is Imperative for the Well-being of Society,” *Real Time Club*, London, 2000.
- H. Thimbleby, “This House Believes Society is Not Ready for The Freedom of Cyberspace,” *Cambridge University Union Debating Society*, Cambridge University, 1995.

4.23 Discussion papers, etc.

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

4.24 Commissioned material

- Effective Research Careers, tutorial notes, BCS Conference on Human-Computer Interaction, 2004.
- The Neglected “Computer” in Human Computer Interaction, tutorial notes, APCHI96, First Asia Pacific Conference on Computer Human Interaction, Singapore, 1996.
- Autostereograms*, tutorial notes, Informatique’95.
- New Approaches to User Interface Design*, tutorial notes, HCI’93, 1993.
- Advertisement, 3 × 6.5 metre computer graphics poster, for Ogilvy & Mather Direct, 1993.
- Creativity in User Interface Design*, tutorial notes, Informatique’93, 1993.
- Human Computer Interaction*, EuroGraphics Technical Report Series, EG92 TN 4, ISSN 1017–4656, 1992.†
- User Interface Design*, tutorial notes, Informatique’92, 1992.
- The Canofile 250*, report for Canon Research Europe, 1991.†

YACC and Lex, The Instruction Set, 1983.†

4.25 Software

Syringe pump simulators, suite of programs, 2005–.

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.

4.26 Other seminars

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

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.

4.27 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–.

4.28 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.

5 Teaching profile

5.1 Research supervision and examining

5.1.1 Current doctoral researchers

Chitra Acharya (started 2008) — medical HCI.
 Abigail Cauchi (started 2010) — number entry.
 Alexis Lewis (started 2011) — incident reporting.
 Rhian Morris (started 2013) — public engagement.
 Tom Owen (started 2010) — diabetic monitoring.

5.1.2 Previous MPhil/PhD researchers

Andy Gimblett, *Structured Usability Techniques for Dependable HCI*, PhD, 2014.
 Patrick Oladimeji, *Designing Number Entry User Interfaces*, PhD, 2014.
 Jennifer Pearson, *Investigating Lightweight Interaction for Active Reading in Digital Documents*, PhD, 2012.
 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.

5.1.3 External examinations

- G. Niezen (PhD), *Ontologies for interaction*, University of Eindhoven, 2012.
 S. Mount (PhD), *A language-independent static checking system for coding conventions*, University of Wolverhampton, 2012.
 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.*

5.2 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–. 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.