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Internationally recognised expert in digital healthcare, medical device design, human factors engineering, user interface design.

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Qualifications

PhD (Computer Science) 1981, London University.

MSc (Computer Science) 1977, Queen Mary College, London University.

BSc (Physics) 1976, Queen Elizabeth College, London University.

Academic Posts

See Change Fellow in Digital Health, Swansea University.

Visiting professor UCL and Middlesex University.

Emeritus Professor of Computer Science, University of Swansea, 2021–

Emeritus Gresham Professor of Geometry, Gresham College, London, 2001–

Previous Posts

Royal Society-Leverhulme Trust Senior Research Fellow, 2007.

Royal Society-Wolfson Research Merit Award holder, 2001–2006.

Professor of Computer Science, University of Swansea, 2005–2021.

Professor of Human Interaction with Systems, University College London (founder and Director of UCL Interaction Centre, UCLIC, 2001–2004).

28th Gresham Professor of Geometry, Gresham College, London, 2000–2004.

Professor of Computing Research and Senior Manager, Middlesex University, 1994–2001 (Director of Research, Computing Science, 1997–2000; Director of Research, Faculty of Technology, 1995–1997).

Erskine Fellow, University of Canterbury, Christchurch, New Zealand, 1997.

Professor of Information Technology, Stirling University, 1988–1994.

Research Scientist, Canon Research Europe, UK, 1991.

Lecturer in Computer Science, University of York, 1982–1988.

Lecturer in Computer Science, Queen Mary College, London University, 1980–1982.

Research Assistant, Eidgenössische Technische Hochschule, Zürich, 1979.

Chief Programmer, Royal College of Art, 1977.

Selected experience and professional activities

Member WHO Global Patient Safety Network.

Expert witness in NHS IT and criminal cases.

Pre-clinical assessment expert advisor for Medicines and Healthcare products Regulatory Agency (MHRA).

Judge for IEHF Ergonomics Design Award, 2012–

Welsh Crucible steering group, 2011–
 EPSRC (Engineering and Physical Sciences Research Council) peer review college, 1994–
 Member of NHS All Wales Medical Device Strategy Group, 2015–2020.
 Member Royal Society International Exchanges Panel, 2007–2020.
 Part of a team providing expert IT evidence to the Post Office Horizon cases and the Sir Wyn Williams Horizon Inquiry, 2022–
 Expert Advisor (and former trustee) Clinical Human Factors Group — www.chfg.org
 Board member, Informing Healthcare (Welsh NHS IT programme), 2006–2018.

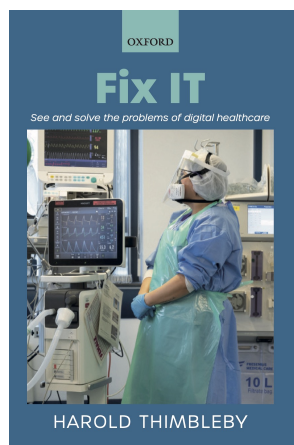
Selected committee memberships

UK Computing Research Committee (UKCRC, 2007–). Royal Society Leverhulme Trust Senior Research Fellowships committee. Royal Society International Conference Grants and Short Visits Panel 1: Pure and Applied Maths, Computer Science. Numerous national and international conference programme committees, etc. I have also run numerous international workshops and conferences.

Awards etc

My book *Fix IT: See and Solve the Problems of Digital Healthcare* (Oxford University Press 2021) won the BMA Best Book Award in General Medicine, 2022. My book *Press On* (MIT Press 2007) won the best book in Computer and Information Sciences Category Award from the American Association of Publishers.

I am a Freeman of The City of London, and of the Worshipful Company of Information Technologists. I won the British Computer Society Wilkes Medal, and the GE Healthcare Award for Outstanding Impact in Health and Wellbeing.



Fix IT: See and Solve the Problems of Digital Healthcare (Oxford University Press, 2021) tells stories of widespread problems with digital healthcare. The stories inspire and challenge anyone who wants to make hospitals and healthcare better. The stories and their resolutions will empower patients, clinical staff and digital developers to help transform digital healthcare to make it safer and more effective.

▷ Winner, General Medicine British Medical Association best books 2022. Judging panel comments: “It is such an important book. Our ability to help patients is so reliant on IT and digital solutions. It has the broadest appeal and has achieved something quite impressive. It is not just medically-focused in presenting solutions. A real strength is that it takes examples from outside of healthcare and translates them into healthcare. It should be read by all healthcare staff.”

▷ “This is an extraordinary book: a potent and engaging compendium of revelatory stories, bold insights, wise advice, and fresh thinking.” – Daniel Jackson (Professor of Computer Science, MIT)

▷ “This is a brilliant and hugely enjoyable book which should be compulsory reading for anyone with high-level responsibility for patient care.” – Martin Elliott (former Medical Director, Great Ormond Street Hospital for Children)

The Royal College of Physicians founded The Harold Thimbleby Award for Digital Transformation, as one of its Excellence in Patient Care Awards 2025, to encourage and celebrate the digital healthcare improvements advocated in the book *Fix IT*. See <https://medicalcare.rcp.ac.uk/excellence-in-patient-care-awards-2025>

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Authors listed in alphabetical order throughout

1 Books

1.1 Major books

1. H. Thimbleby & P. Thimbleby, *Patient Safety — Stories for a digital world*, Amazon, 2024.
<https://amzn.eu/d/cft1qGJ> – <https://www.harold.thimbleby.net/booklet>
2. H. Thimbleby, **British Medical Association best book award**, *Fix IT: See and Solve the Problems of Digital Healthcare*, Oxford University Press, 2021.
3. G. Buchanan, J. Pearson & H. Thimbleby, *Designing for Digital Reading*, Phoenix Media, 2020.
4. G. Buchanan, J. Pearson & H. Thimbleby, *Lightweight Interaction: Improving Digital Reading, Synthesis Lectures on Information Concepts, Retrieval, and Services*, 5(4), Morgan & Claypool Publishers, 2013. DOI: 10.2200/S00539ED1V01Y201310ICR029
5. H. Thimbleby, *Press On — Principles of Interaction Programming*, Paperback edition, MIT Press, 2010. <http://mitpress.com/presson>
6. H. Thimbleby, **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.**, *Press On — Principles of Interaction Programming*, MIT Press, 2007.
<http://mitpress.com/presson>
7. N. Beale, T. Byrne, D. Leal, S. Peyton-Jones, J. Pickering, D. J. Pullinger & H. Thimbleby, *Cybernauts Awake!* Church House Press, 1999.
8. G. F. Coulouris & H. Thimbleby, *HyperProgramming*, Addison-Wesley, 1993.
9. H. Thimbleby, *User Interface Design*, ACM Press Frontier Series, Addison-Wesley, 1990.

1.2 Edited books and proceedings

10. D. W. Bates, N. Dhingra-Kumar, L. Donaldson, E. Kelley, I. Larizgoitia, A. Sheikh & H. Thimbleby (editors), *Medication Errors*, World Health Organization, 2017.
11. L. Chant, J. Hoogewerf, T. Lewis, S. Sathanandam, H. Thimbleby, D. Wooldridge & J. Wyatt, *Rapid literature review for National Information Board*, J. Wyatt (editor), Royal College of Physicians, London, 2015.
12. A. Blandford, L. Gallo, A. Gimblett, P. Oladimeji, G. D. Pietro & H. Thimbleby (editors), *Proceedings of the 1st International Workshop on Engineering Interactive Computing Systems for Medicine and Health Care*, Pisa, Italy, 2011.
13. B. O’Conaill, H. Thimbleby & P. J. Thomas (editors), *Proceedings of the British Computer Society Conference, People and Computers, HCI’97, XII*, Springer Verlag, 1997.
14. A. Blandford & H. Thimbleby (editors), *Adjunct Proceedings of the British Computer Society Conference, People and Computers, HCI’96*, 1996.
15. M. D. Harrison & H. Thimbleby (editors), *Formal Methods in Human Computer Interaction*, Cambridge University Press, 1990.
16. J. J. Brown, J. S. Bryden, A. G. Donald, R. Murray, I. W. Percy-Robb, D. R. Steel, H. Thimbleby, A. Thorburn, G. Venters & R. B. Weatherstone, *Modern Office Technology*, Scottish Health Management Efficiency Group, 1990.

2 Publications: refereed

2.1 Journal papers: refereed

17. P. Ladkin, S. Mason & H. Thimbleby, “Misunderstanding Digital Computer Technology in Court: A Commentary on a Case Involving the Post Office Horizon System,” *Digital Evidence and Electronic Signature Law Review*, in press.

18. H. Thimbleby, "Improving Science That Uses Code," *Computer Journal*, **67**(4):1381–1404, 2024. DOI: 10.1093/comjnl/bxad067
19. H. Thimbleby, "NHS Number open source software: Implications for digital health regulation and development," *ACM Transactions on Computing for Healthcare*, **3**(4):42:1–42:27, 2022. DOI: 10.1145/3538382
20. N. Bohm, J. Christie, P. B. Ladkin, B. Littlewood, P. Marshall, S. Mason, S. J. Murdoch, M. Newby, H. Thimbleby & M. Thomas, "Briefing Note: The legal rule that computers are presumed to be operating correctly — unforeseen and unjust consequences," *Digital Evidence and Electronic Signature Law Review*, **19**:123–127, 2022. <https://journals.sas.ac.uk/deeslr/article/view/5476/5235> DOI: 10.14296/deeslr.v19i0.5476
21. A. Cleve, I. Habli, L. Maaløe, N. Rees, M. Sujan & H. Thimbleby, "Assuring safe artificial intelligence in critical ambulance service response: Study protocol," *British Paramedic Journal*, **7**(1):36–42, 2022. DOI: 10.29045/14784726.2022.06.7.1.36
22. H. Thimbleby, "We need to Fix IT," *HindSight*, **33**:61–64, 2022.
23. J. Christie, P. B. Ladkin, B. Littlewood, P. Marshall, S. Mason, M. Newby, J. Rogers, H. Thimbleby & M. Thomas, "Recommendations for the probity of computer evidence," *Digital Evidence and Electronic Signature Law Review*, **18**:18–26, 2021. <https://journals.sas.ac.uk/deeslr/article/view/5240> DOI: 10.14296/deeslr.v18i0.5240
24. H. Thimbleby, "The problem isn't Excel, it's unprofessional software engineering," *British Medical Journal*, **371**(m4181), 2020. DOI: 10.1136/bmj.m4181
25. P. B. Ladkin, B. Littlewood, H. Thimbleby & M. Thomas, "The Law Commission presumption concerning the dependability of computer evidence," *Digital Evidence and Electronic Signature Law Review*, **17**, 2020. <https://journals.sas.ac.uk/deeslr/article/view/5143> DOI: 10.14296/deeslr.v17i0.5143
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27. M. Baker, E. Coiera, I. Habli, F. Magrabi, M. Sujan, H. Thimbleby & D. Wong, "Why is it so difficult to govern mobile apps in healthcare?" *BMJ Health & Care Informatics*, **26**(1), BMJ Specialist Journals, 2019. <https://informatics.bmj.com/content/26/1/e100006> DOI: 10.1136/bmjhci-2019-100006
28. P. Jones, P. Masci, H. Thimbleby & Y. Zhang, **Best Research Paper of 2019 awarded by the Biomedical Instrumentation & Technology Editorial Board**, "User Interface Software Errors in Medical Devices," *Biomedical Instrumentation & Technology*, **53**(3):182–194, 2019. DOI: 10.2345/0899-8205-53.3.182
29. H. Thimbleby & D. Williams, "A tool for publishing reproducible algorithms & A reproducible, elegant algorithm for sequential experiments," *Science of Computer Programming*, **156**:45–67, 2018. <http://github.com/haroldthimbleby/relit> DOI: 10.1016/j.scico.2017.12.010
30. H. Thimbleby, "Misunderstanding IT: Hospital cybersecurity problems in court," *Digital Evidence and Electronic Signature Law Review*, **15**:11–32, 2018. DOI: 10.14296/deeslr.v15i0.4891
31. H. Thimbleby, "Implementation bias in HCI — and escaping it," *Journal of Interaction Science*, **5**(4), 2017. DOI: 10.24982/jois.1717017.004
32. H. Thimbleby, "Improve IT, Improve health," *IEEE Computer*, **50**(6):86–91, 2017. DOI: 10.1109/MC.2017.167
33. P. Cairns & H. Thimbleby, "Interactive numerals," *Royal Society Open Science*, **4**(160903), 2017. DOI: 10.1098/rsos.160903
34. H. Thimbleby, "Trust Me, I'm A Computer," *Future Healthcare Journal*, **4**(2):105–108, 2017. DOI: 10.7861/futurehosp.4-2-105
35. A. Hannawa, R. Street, F. Thilo, H. Thimbleby, A. Wu & J. Øvretveit, "Using and choosing digital health technologies: A communications science perspective," *Journal of Health*

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 49. H. Thimbleby, “Processing Storage and Display of Physiological Measurements,” *Anaesthesia and Intensive Care Medicine*, **15**(7):340–343, 2014. DOI: 10.1016/j.mpaic.2014.04.021
 50. H. Thimbleby, “Action Graphs and User Performance Analysis,” *International Journal of Human-Computer Studies*, **71**(3):276–302, 2013.
<http://www.sciencedirect.com/science/article/pii/S1071581912001668> DOI: 10.1016/j.ijhcs.2012.10.014
 51. P. Lee, C. Monroy Aceves, P. Oladimeji & 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):15–21, 2013.
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<http://interactions.acm.org/archive/view/january-february-2013/targeting-the-fitts-law> DOI: 10.1145/2405716.2405720
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2.7 Refereed exhibitions

- 367. H. Thimbleby & W. Thimbleby, “A Gesture-based Calculator,” *Rags to Riches, The Royal*

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3.1 Forewords and keynotes

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- 381. H. Thimbleby, “Improving Safety in Medical Devices and Systems,” *Proceedings of the IEEE International Conference on Healthcare Informatics 2013 (ICHI 2013)*, Keynote, 1–13, Philadelphia, USA, 2013. DOI: 10.1109/ICHI.2013.91
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3.2 Special issues

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3.3 Contributions to edited volumes

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3.4 Editorials, articles, and reviews in journals

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5 Invited presentations, exhibitions, debates, workshops

5.1 ACM Distinguished Lectures

- 643. H. Thimbleby, "After cancer, errors kill more people, and computers have everything to do with it," *Summer School of Science*, Keynote, ACM 2018 Distinguished Lecture, Požega, Croatia, 2018. http://drustvo-evo.hr/s3/s3_2018.html
- 644. H. Thimbleby, "Missed solutions to WWII Enigma design," *Summer School of Science*, Keynote, ACM 2018 Distinguished Lecture, Požega, Croatia, 2018. http://drustvo-evo.hr/s3/s3_2018.html
- 645. H. Thimbleby, "Human error is not the problem," *Workshop on Interaction in Healthcare: Saving lives one interface at a time*, Keynote, ACM 2017 Distinguished Lecture, Lisbon, Portugal, 2017. <http://it-medex.inesc-id.pt/workshop-interaction-healthcare>
- 646. H. Thimbleby, "Creativity, Innovation and Risk," *ACM CORI (International Conference on Computing Research and Innovations)*, Keynote, ACM Distinguished Lecture, Ibadan, Nigeria, 2016.
- 647. H. Thimbleby, "Creativity, Innovation and Taking Risk in Your Research," *ACM 2016 Distinguished Lecture*, Imperial College, London, 2016.
- 648. H. Thimbleby, "Your invitation to fix IT in healthcare," *International Conference on Engineering & MIS 2016*, Keynote, ACM Distinguished Lecture, Agadir, Morocco, 2016.

5.2 Gresham College lectures and videos

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- 650. H. Thimbleby, "Designing IT to Make Healthcare Safer," *Gresham College*, 11 February 2014.
- 651. H. Thimbleby, "Avoiding Death by Computer," *Gresham College*, 28 September, 2009.
- 652. H. Thimbleby, "Better Programming," *Gresham College*, 13 May, 2004.
- 653. H. Thimbleby, "Computer Circles," *Gresham College*, 26 February, 2004. <http://www.harold.thimbleby.net/lisp>
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- 655. A. Blandford & H. Thimbleby, "Designing for Humans," *Gresham College*, 13 February, 2003.
- 656. H. Thimbleby, "Designing Microwave Cookers," *Gresham College*, 26 January, 2003.
- 657. H. Thimbleby, "From Lego, Java and Mathematica to feature interaction," *Gresham College*, 13 March, 2003.
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- 661. H. Thimbleby, "1,000 Years of Calculators," *Gresham College*, 21 November, 2002.
- 662. H. Thimbleby, "Computer Viruses," *Gresham College*, 21 March, 2002.
- 663. H. Thimbleby, "Conventional Cryptography," *Gresham College*, 21 February, 2002.
- 664. H. Thimbleby, "Design Creativity with Maths," *Gresham College*, 26 September, 2002.
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5.3 Conference keynotes

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672. H. Thimbleby, “Critical Innovation — Making digital health successful,” *Royal College of Physicians Regional Update*, Loughborough, 2024.
673. H. Thimbleby, “Misunderstandings about digital healthcare and how to improve digital patient safety,” *NHS England*, London, 2024.
674. H. Thimbleby, “Digital Behind the Scenes in Vaccination and Patient Care,” *6th Saudi International Vaccination Forum*, Riyadh, Saudi Arabia, 2024.
675. H. Thimbleby, “How HCI can see & solve problems of healthcare,” *15th Irish HCI Symposium*, Belfast, Northern Ireland, 2022.
676. H. Thimbleby, “Everything involves computers, so you need to know six secrets . . . and some suggestions,” *Clinical Engineering Conference, National Performance Advisory Group*, Coventry, 2022.
677. H. Thimbleby, “The deeper IT scandal behind the Post Office Horizon scandal,” *Digital by Default: Post Office Horizon IT System*, Canterbury, 2022.
678. H. Thimbleby, “Demanding Digital Safety in Healthcare,” *German Coalition for Patient Safety (Aktionsbündnis Patientensicherheit)*, APS, Patient Safety Conference, Berlin, 2021.
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680. H. Thimbleby, “AI, cybersecurity, law and patient safety,” *Leigh Day, Medical Negligence*, London, 2020.
681. H. Thimbleby, “Accrediting everyone to improve clinical safety,” First Annual UK Faculty of Clinical Informatics Conference, Royal College of General Practitioners, London, 2019.
682. H. Thimbleby, “Achieving the promise of digital healthcare,” Fourth World Health Organization Global Ministerial Summit, Jeddah, Saudi Arabia, 2019.
683. H. Thimbleby, “Expert Session,” WHINN: Week of Health and Innovation, Odense, Denmark, 2019.
684. H. Thimbleby, “Hidden digital healthcare problems,” BCS Primary Healthcare Specialist Group 39th Annual Conference, Stratford on Avon, 2019.
685. H. Thimbleby, “Three Steps to Achieve Digital Health Safety,” Digital Health Safety Conference, York, 2019.
686. H. Thimbleby, “Unknown unknowns,” SCSC (Safety-Critical Systems Club) Learning from Accident Investigations, London, 2019.
687. H. Thimbleby, “User-driven design in health technology,” WHINN: Week of Health and Innovation, Odense, Denmark, 2019.
688. H. Thimbleby, “Assisted living and cybersecurity,” Workshop in Healthcare Science and Technology (WIHST), London, 2018.
689. H. Thimbleby, “Cyber Security and Human Factors,” Department of Computer Science, Cardiff Metropolitan University, Cardiff, 2018.
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- Picture I 2018, National Exhibition Centre, Birmingham, 2018.
692. H. Thimbleby, "Digital Healthcare," First Saudi Patient Safety Center Conference, Riyadh, Saudi Arabia, 2018.
 693. H. Thimbleby, "Digital Healthcare Panel," First Saudi Patient Safety Center Conference, Riyadh, Saudi Arabia, 2018.
 694. H. Thimbleby, "Error is More Complex Than Ethics, and Widespread Confusion Leads to Preventable Deaths in Healthcare," *eHealth Workshop, Developments in ICT and Healthcare — Developments in ICT and Healthcare*, London, 2018.
 695. H. Thimbleby, "Human Factors in Cyber Security," Accreditors' Forum, National Cyber Security Centre, London, 2018.
 696. H. Thimbleby, "Managing digital risks in patient safety," Croatian Society for Quality Improvement in Healthcare, Croatian Medical Association, and Croatian Agency for Quality and Accreditation in Healthcare, Zagreb, Croatia, 2018.
 697. H. Thimbleby, "Risky digital healthcare — and how to fix it," Risky Business, London, 2018.
 698. H. Thimbleby, "The Human Factor and Cybersecurity," Data Matters 2018, DVLA (Driver & Vehicle Licensing Agency), Swansea, 2018.
 699. P. Scott & H. Thimbleby, "Why is digital health not based on evidence?" Health+Care Conference and the Digital Healthcare Show, ExCel Centre, London, 2018.
 700. H. Thimbleby, "Overcoming the challenges of poor IT in hospitals," *Digital Health & Care and Safety of Connected Health: Improvement & Applications Conference (DICOH'18)*, Warwick, 2018.
 701. H. Thimbleby, "Computational Interaction from Formal Methods perspective," *Computational Interactivity*, Keynote, Schloss Dagstuhl, Germany, 2017.
 702. H. Thimbleby, "Cyber Health Thinking," *Cyber safety and resilience of connected health devices*, Keynote, Royal Academy of Engineering, London, 2017.
 703. H. Thimbleby, "Defending nurses," *The Moth Theatre*, Keynote, Seattle, USA, 2017.
 704. H. Thimbleby, "From Blame to Prison: Human Factors and Cybersecurity," *Clinical Engineering and IT Connectivity Group Conference, NHS National Performance Advisory Group*, Keynote, Coventry, 2017.
 705. H. Thimbleby, "Human factors failings in the German Enigma design," *SFI (Studencki Festival Informatyczny) Academic IT Festival*, Keynote, Kraków, Poland, 2017.
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 707. H. Thimbleby, "Programming Healthcare Well," *Code Europe*, Keynote, Warsaw, Poland, 2017.
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 709. H. Thimbleby, "To find the best balance of technology vs people, we must take evaluation seriously," *AMIA 2017 Annual Symposium*, Keynote, Washington, DC, USA, 2017.
 710. H. Thimbleby, "Cyber Security Problems in One Hospital (and probably all of them)," *CHERISH-DE Cybersecurity Conference*, Keynote, Swansea, 2016.
 711. H. Thimbleby, "Digital Health Technologies for Safer and Better Care," *ISCOME (International Society for Communication Science and Medicine) Workshop*, Keynote, Lilienberg Unternehmerforum, Ermatingen, Switzerland, 2016. <http://www.iscome.org>
 712. H. Thimbleby, "Human Factors and Unreliable Blood Glucometers — How to Lose Staff," *Archimedes Workshop on Medical Device Security*, Keynote, Michigan, USA, 2016.
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 713. H. Thimbleby, "Human Factors and Unreliable Cryptography — How to Lose a War," *Department of Computer Science, University of Michigan*, Keynote, Ann Arbor, USA, 2016.
 714. H. Thimbleby, "Human Factors Considerations for Future Design," *IPEM (Institute of Physics*

- and *Engineering in Medicine*) *Annual Conference*, Keynote, Manchester, 2016.
715. H. Thimbleby, "IT — Help or Hindrance?" *Past, Present and Future of Medicine, Joint Conference Royal College of Physicians Edinburgh and The Society of Acute Medicine*, Keynote, Edinburgh, 2016.
 716. H. Thimbleby, "Patient Stories," *ISCOME (International Society for Communication Science and Medicine) Workshop*, Keynote, Lilienberg Unternehmerforum, Ermatingen, Switzerland, 2016. <http://www.iscome.org>
 717. H. Thimbleby, "Social network analysis and applications for designing better systems and doing better research," *International Conference on Engineering & MIS 2016*, Keynote, Agadir, Morocco, 2016.
 718. H. Thimbleby, "Beating error with formal methods," *2nd Human-Oriented Formal Methods (HOFM) Workshop*, Keynote, York, 2015.
 719. H. Thimbleby, "Designing Technology to Make Healthcare Safer," *British Renal Society*, Keynote, Leeds, 2015.
 720. H. Thimbleby, "From quality to safety in healthcare products," Keynote, Chinese Academy of Engineering, 2015.
 721. H. Thimbleby, "How Safe Are Our Devices?" *North of England Intensive Care Society*, Keynote, Darlington, 2015.
 722. H. Thimbleby, "Human Error — Managing the Inevitable," *Norwich Anaesthesia Update*, Keynote, Ipswich, 2015.
 723. H. Thimbleby, "Improving care through reporting incidents," *Grand Rounds lecture*, Keynote, Princess of Wales Hospital, Wales, 2015.
 724. H. Thimbleby, "Incident Reporting," *Royal College of Physicians*, Keynote, London, 2015.
 725. H. Thimbleby, "Overcoming challenges of preventable error," *Weqas Annual Conference*, Keynote, Cardiff, 2015.
 726. H. Thimbleby, "Safer by Design," *Electronics & Software in Medical Devices Seminar with Regulatory Update*, Keynote, Cardiff, 2015.
 727. R. Koppel & H. Thimbleby, "The Challenge of Computerisation in Hospitals: First do Less Harm," Keynote, Royal College of Physicians, Edinburgh, 2015.
 728. H. Thimbleby, "The Digital Health Revolution," *InfoLab at 10*, Keynote, Lancaster University, 2015.
 729. H. Thimbleby, "The Simms Lecture: Overcoming the challenges of poor IT in hospitals," *Royal College of Physicians*, Distinguished Lecture [Cancelled on day due to NHS strikes], York, 2015.
 730. H. Thimbleby, "To err is human," *Infection Prevention Society Annual Conference*, Keynote, Liverpool, 2015.
 731. H. Thimbleby, "Why Don't We Design Technology to Make Healthcare Safer?" *University of Hertfordshire School of Life and Medical Science Annual Conference*, Keynote, Hertford, 2015.
 732. H. Thimbleby, "CHI+MED: Multidisciplinary Computer-Human Interaction Research for the Design and Safe Use of Interactive Medical Devices," *Third Workshop on Technology for Health and Well Being (THAW)*, Keynote, Glasgow, 2014.
 733. H. Thimbleby, "Collaborating with the NHS: How poor IT security helps us think more clearly about safety," *Collaborate 2014*, Keynote, 2014.
 734. H. Thimbleby, "Cyber-security for Medical Devices," *Malvern Festival of Innovation*, Keynote, Malvern, UK, 2014.
 735. H. Thimbleby, "Engineering to Help Manage Error," *The contribution of engineering to peri-operative patient safety*, Keynote, Royal Academy of Engineering, London, 2014.
 736. H. Thimbleby, "How Safe is Our Equipment," *ACTA, Association of Cardiothoracic Anaesthetists*, Keynote, London, 2014.
 737. H. Thimbleby, "Medical Devices and Human Factors: Better together, but a tragic separation," *NAMDET*, Keynote, Manchester, 2014.
 738. H. Thimbleby, "Risk Management in Medical Devices," *Central Sterilisation Club*, Keynote, Birmingham, 2014.

739. H. Thimbleby, "Safety and Security and Why They are so Hard to Achieve," *Archimedes Workshop on Medical Device Security*, Keynote, Michigan, USA, 2014.
<http://secure-medicine.org/workshop>
740. H. Thimbleby, "The Computer as Team Player," *SHOT (Serious Hazards of Transfusion) Symposium*, Keynote, Manchester, 2014.
741. H. Thimbleby, "The tragic fallibility of medical devices and what to do about it," *The Tri-Service Anaesthetic Society*, Keynote, London, 2014.
742. H. Thimbleby, "Better Medical Devices and Systems," *Completing the Picture*, Keynote, Glasgow, 2013.
743. H. Thimbleby, "Engineering-out Errors in Drug Administration," *Hospital Pharmacy Europe*, Keynote, Birmingham, 2013.
744. H. Thimbleby, "System Causes of Error, and How to Start Fixing Them," *NAMDET: National Association of Medical Device Educators & Trainers*, Keynote, London, 2013.
745. R. Koppel & H. Thimbleby, "Unsafe in Any Bed," Keynote, Taliesin Theatre, Swansea, 2013.
746. H. Thimbleby, "Blindspots and Safer Medical Systems," *DesignMed Europe*, Keynote, Stuttgart, Germany, 2012.
747. H. Thimbleby, "Improving Medicines Safety with New Technology," *Royal Pharmaceutical Society Medicines Safety Symposium*, Keynote, London, 2012.
748. H. Thimbleby, "Safe Interaction," *IFIP WG 10.4*, Rockport, Massachusetts, 2012.
749. H. Thimbleby, "Widespread Errors are Fixable by Better Design," *Medical Equipment Libraries Forum*, Blackpool, 2012.
750. 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.
751. H. Thimbleby, "Looking Beyond 'Human Error' to its Causes," *Symposium on Patient Safety and Clinical Decision Making*, Keynote, 2, Royal College of Physicians, Edinburgh, Scotland, 2011.
752. H. Thimbleby, "Looking Beyond 'Human Error' to its Causes and Prevention," *Scottish Intensive Care Society Annual Scientific Meeting*, Keynote, St. Andrews, Scotland, 2011.
753. H. Thimbleby, "Safer Health IT," *Aspiring to Clinical Excellence Conference, Guild of Healthcare Pharmacists/UK Clinical Pharmacy Association, 7th Joint National Conference*, Nottingham, 2011.
754. H. Thimbleby, "Widespread Errors are Fixable by Better Design," *15th National Biomedical and Clinical Engineering Conference*, Keynote, Birmingham, 2011.
755. H. Thimbleby, "History of Key Issues (in formal methods for HCI)," *IFIP WG 2.7*, London, 2010.
756. H. Thimbleby, "Looking Beyond 'Human Error' to its Causes," *Scottish Clinical Skills Network*, Keynote, Dundee, Scotland, 2010.
757. H. Thimbleby, "Reducing Designed-in Errors in Interactive Medical Devices," *2009 Health and Life Sciences Symposium*, Keynote, Phoenix, Arizona, 2009.
758. H. Thimbleby, "Teaching HCI to Make it Come Alive," *Human-Computer Interaction Educators, HCIED*, Keynote, Rome, 2008. <http://www.mifav.uniroma2.it/hcied2008>
759. H. Thimbleby, "Models of Reactive Systems and Their Complex Interactive Behaviour," *Brain Computer Interaction: PASCAL Workshop 2007—BCI Meets HCI*, Keynote, 2007.
760. H. Thimbleby, "HCI and Ethics," *EPSRC Loughborough Workshop on the Future of HCI*, 2007.
761. H. Thimbleby, "Digital Stories," *ESRC Workshop on Universal Access*, Keynote, London, 2006.
762. H. Thimbleby, "Highly Interactive Mathematical User Interfaces," *Mathematical User-Interfaces Workshop, Fifth Mathematical Knowledge Management Conference*, Keynote, 2006.
763. H. Thimbleby, "Making Formal Methods Work in HCI," *1st International Workshop on Formal Methods for Interactive Systems*, Keynote, Macau, 2006.
764. H. Thimbleby, "The Computer Science of Everyday Things," *Faculty Lecture*, Keynote,

- Glasgow University, 2006.
765. H. Thimbleby, "The Lansdown Lecture," London, 2006.
 766. H. Thimbleby, "Designing for Usability," *CIRCUA ESRC Conference*, 2005.
 767. H. Thimbleby, "Weapons of Maths Construction," *BT Science and Technology Seminar*, 2005.
 768. H. Thimbleby, "Weapons of Maths Construction," *Computing Science New Year Lecture*, Glasgow University, 2005.
 769. H. Thimbleby, "Knowing Computer Technology," *Christians in Science Annual Conference*, Keynote, Sheffield, 2004.
 770. H. Thimbleby, "Quality Research and Ethics," *EPSRC 'EQUAL' Conference*, Keynote, London, 2004.
 771. H. Thimbleby, "Design Probes," *Xootic Symposium on Pervasive Computing*, Keynote, 2001.
 772. H. Thimbleby, "Symmetry and Affordance," *Xootic Symposium on Pervasive Computing*, Keynote, 2001.
 773. H. Thimbleby, "Just Programming," *Sixth International Conference on Object-Oriented Information Systems, OOIS2000*, Keynote, 2000.
 774. H. Thimbleby, "Killer User Interfaces," *WAP und Mobile eCommerce*, Keynote, Frankfurt, 2000.
 775. H. Thimbleby, "What is The Computer Medium?" *Multi-viewpoint, Shaping the Human-Computer Interface*, Keynote, Design Research Society Conference, 1998.
 776. H. Thimbleby, "3D Creativity for the Web," *International Conference, 3D and Multimedia, WWW and Networks*, Keynote, 1996. <http://harold.thimbleby.net/sirds/index.html>
 777. H. Thimbleby, "Designing webs," *Designing the Internet*, Keynote, London, 1996.
 778. H. Thimbleby, "Future Internet Issues," *Internet: Opportunity or Threat?*, Keynote, Institute of World Concerns, Coventry, 1996.
 779. H. Thimbleby, "The Challenge of Technological Hubris," *ετ '94 Conference*, Keynote, CCTA (Government Office: Government Centre for Information Systems, 1994.
 780. H. Thimbleby, "Can Humans Think?" *The Ergonomics Society Annual Lecture, The Ergonomics Society Lecture*, Keynote, 1991.

5.4 Other invited conference presentations

781. H. Thimbleby, "Digital twins, definitions, benefits, and regulatory challenges," *Digital Twins: Regulating Medical Devices as Safety Critical Systems*, London, 2024.
782. H. Thimbleby, "The Simms Lecture: Fix IT — See and Solve the Problems of Digital Healthcare," *Royal College of Physicians Update in Medicine*, Distinguished Lecture, Leeds, 2023.
783. H. Thimbleby, "Global Roundtable Workshop," *Fifth European Emergency Medical Services Congress*, Glasgow, 2022.
784. H. Thimbleby, "Panel," *Going Mobile: Creating an IT solution that practitioners want to use*, North Tyneside Council, 2022.
785. H. Thimbleby, "Springboards for developing safer software for medical devices," *Development of Software as a Medical Device, Institute of Physics and Engineering in Medicine (IPEM)*, 2022.
786. H. Thimbleby, "Launch of The International Fix IT digital healthcare prize," *Royal College of Physicians Medicine, 2022*, Royal College of Physicians, London, 2022.
787. H. Thimbleby, "Computers — the enduring error: output = truth," *BCS Law Specialist Group*, BCS, London, 2021.
788. H. Thimbleby, "Make IT Work," *York Sixth Form CS Program*, York, 2021.
789. H. Thimbleby, "AI, cybersecurity, law and patient safety," *Association of Personal Injury Lawyers*, London, 2020.
790. H. Thimbleby, "Resilient Open Source in an age of pandemic urgency," *Viral Response Roundtable – Session no. 4 – How to audit and secure accreditation for your COVID product?*, Madrid, Spain, 2020.
791. H. Thimbleby, "Showcase panel session," *WHINN: Week of Health and Innovation*, Odense, Denmark, 2019.

792. H. Thimbleby, "The Simms Lecture: Overcoming the challenges of poor IT in hospitals," *Digital Health & Care and Safety of Connected Health: Improvement & Applications Conference (DICOH'18)*, Warwick, 2018.
793. H. Thimbleby, "The Simms Lecture: Overcoming the challenges of poor IT in hospitals," *Royal College of Physicians*, Distinguished Lecture, York, 2018.
794. H. Thimbleby, "A Crisis To Be Avoided," *Patient Safety Week*, Abertawe Bro Morgannwg NHS University Health Board Singleton Hospital, 2017.
795. H. Thimbleby, "Human error and healthcare systems," *Computer Science and Law Engagement*, Swansea, 2017.
796. H. Thimbleby, "Human Factors in Medicine," *Never Events Workshop*, Abertawe Bro Morgannwg NHS University Health Board Morriston Hospital, 2017.
797. H. Thimbleby, "Taking The Agenda Forward," *Digital Futures in health & wellbeing — can public services survive without them?*, Swansea, 2017.
798. H. Thimbleby, "Human Factors: Another view," *Human Factors, UK Medicines and Healthcare Products Regulatory Agency (MHRA) Stakeholder Event*, London, 2015.
799. H. Thimbleby, "Bad Design to Die For," *TEDx River Tawe*, 2013.
800. H. Thimbleby, "Human error is not the problem," *Central Sterilising Club Annual Scientific Meeting*, Bristol, UK, 2013.
801. 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.
802. H. Thimbleby, "System causes of error and how to start fixing them," *Glasgow University*, 2013.
803. H. Thimbleby, "Using ICT for safer and more effective healthcare," *Grenoble Interdisciplinary Days 2013*, Grenoble, 2013.
804. H. Thimbleby, "The science of HCI," *Designing Digital Futures Workshops*, Sony, Pencoed, 2011.
805. H. Thimbleby, "The science of HCI," *Designing Digital Futures Workshops*, Ty Menai, Bangor, 2011.
806. H. Thimbleby, "Poor system design: A hidden problem in patient safety," *Aberdeen University/NHS Grampian Patient Safety Guest Lecture Series*, 2010.
807. R. Beale & H. Thimbleby, "Saving people by design," *E-Health Insider Conference*, Birmingham, 2010.
808. H. Thimbleby, "Devices don't detect errors: What if they could?" *Workshop on Interactive Medical Devices*, UCL, 2009.
809. 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.
810. H. Thimbleby, "Grand Challenges in eHealth," *Panel, ACM CHI*, Boston, USA, 2009.
811. H. Thimbleby, "Grand Challenges in Human Error," *Natural Computing Applications Forum, NCAF*, 2009.
812. 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.
813. H. Thimbleby, "Interactive medical devices," *Clinical Systems Improvement Open Seminar*, Warwick Medical School, 2009.
814. H. Thimbleby, "State Machine Engineering," *IFIP WG 2.7/13.4 User Interface Engineering, Open Problems in User Interface Engineering Workshop*, London, 2009.
815. H. Thimbleby, "The National Research Scene," *EPSRC Workshop on Grand Challenges in Information Driven Health*, 2009.
816. H. Thimbleby, "Understanding Interactive Medical Devices," *MediWales Seminar*, Cardiff, 2009.
817. H. Thimbleby, "Architects or Builders?" *HCIed 2008: Architecting The Future*, Rome, 2008.
818. H. Thimbleby, "Data Collection at the Bedside—Clinical Information Collection in the 21st Century," *Royal College of Physicians Joint Specialist Society Clinical Effectiveness Forum*,

- Royal College of Physicians, London, 2008.
819. H. Thimbleby, "Digital Stories," *Royal Society/NRF Conference, User-Generated Content Systems and Services for Developing Country Contexts*, Cape Town, South Africa, 2008.
 820. H. Thimbleby, "Lecture series: TATA Excellence in Computer Science Week," Pune, India, 2008.
 821. H. Thimbleby, "New Approaches to Dosage Calculation and How They Can Reduce Errors," *Healthcare Extensions Technologies*, UCL, London, 2008.
 822. H. Thimbleby, "Powerful interactive calculators," TECHFEST, Mumbai, 2008.
 823. H. Thimbleby, "TippingPoint Germany 2008," *Potsdam Institute for Climate Impact Research and British Council*, Berlin, 2008.
 824. H. Thimbleby, "Understanding and Reducing Designed-in IT Errors in Healthcare," *Hospital of the Future Workshop*, Oxford University, 2008.
 825. 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.
 826. H. Thimbleby, "Building the Future with Weapons of Maths Construction," *Glasgow University Lecture*, Glasgow, 2006.
 827. H. Thimbleby, "Schools Lecture," *Glasgow University Lecture*, Glasgow, 2006.
 828. H. Thimbleby, "Alterando il destino dell'umanità," Due Mondi Spoleto Festival, Italy, 2005.
 829. H. Thimbleby, "Bring the past to life and preserve today for tomorrow," National Waterfront Museum, 2005.
 830. H. Thimbleby, "Creative future technologies," The Creative Technology Sector and Near Future Workshop, Colwyn Bay, 2005.
 831. H. Thimbleby, "Future Relation of People and Computers," Swansea Science Café, 2005.
 832. H. Thimbleby, "Nella tela del ragno: Il futuro nel web," Due Mondi Spoleto Festival, Italy, 2005.
 833. H. Thimbleby, "Tenantspin & tagging," Cardiff Festival of Creative Technology, 2005.
 834. H. Thimbleby, "Communicating Science Honestly," *Royal Society/British Association Conference on Communicating Science*, London, 2004.
 835. H. Thimbleby, "Multidisciplinary Research," *20 Years of HCI*, Loughborough, 2004.
 836. H. Thimbleby, "Interactive Television," *Londonone: iTV Conference*, London, 2002.
 837. H. Thimbleby, "AI as Applied Justice," *Feats and Frontiers, An International AI Symposium in Memory of Sidney Michaelson*, Edinburgh, 2001.
 838. H. Thimbleby, "Automating Manuals," *Bluecoat Conference*, London, 2001.
 839. H. Thimbleby, "Computer Viruses, Trojans and Cryptography: The Issues," *National Residential Conference for Heads of Information Technology and Computing in Further Education Colleges*, 2001.
 840. H. Thimbleby, "From Logs to Calculators," *1000 Years of British Mathematics*, Royal Institution, 2001.
 841. H. Thimbleby, "Justice and Programming," IFIP 9.2.2, Namur, Belgium, 2001.
 842. H. Thimbleby, "UCL Interaction Centre," *Natural History Museum*, London, 2001.
 843. H. Thimbleby, "UK HCI: Public and Private Thoughts," *Fourth Workshop on Effective Training and Education in HCI*, 2001.
 844. H. Thimbleby, "Handheld and Ubiquitous Computing, HUC2k," *EPSRC Workshop*, 2000.
 845. H. Thimbleby, "Mobile Phones," *Design for Usability*, London, 2000.
 846. P. Cairns & H. Thimbleby, "Thoughts on User Interface Patterns," *Patterns in Human Computer Interaction, IFIP WG13.2/BCS HCI Group*, 2000.
 847. H. Thimbleby, "Trust Panel," *ACM CHI*, Amsterdam, 2000.
 848. 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.

849. P. Duquenoy & H. Thimbleby, "Justice and Design," IFIP 9.2.2, Namur, Belgium, 1999.
850. H. Thimbleby, "User Centred Tools," *Workshop on User Centred Design, Interact'99*, Edinburgh, 1999.
851. H. Thimbleby, "Internet Ethics," IFIP 9.2.2 Namur, 1998.
852. H. Thimbleby, "Making Computing Exciting," *First Workshop on the Design of Hypermedia*, CERN, Geneva, 1998.
853. H. Thimbleby, "Panel," *Workshop on User Interfaces for Theorem Provers*, Eindhoven, 1998.
854. H. Thimbleby, "EPSRC Panel," *BCS Conference on People and Computers, HCI'97*, Bristol, 1997.
855. H. Thimbleby, "Interactive devices," Science Prestige Lecture, University of Canterbury, Christchurch, New Zealand, 1997.
856. H. Thimbleby, "Internet and Unity," *Unity'97: Multicultural Festival for European Year Against Racism*, 1997.
857. H. Thimbleby, "Internet Ethics," Edinburgh International Science Festival, 1997.
858. H. Thimbleby, "Personal Boundaries/Global Stage," IEE 20/20 Vision Conference on Morality in the Information Society, 1997.
859. H. Thimbleby, "Visualising The Future," BT, Martlesham, 1997.
860. H. Thimbleby, "3D Illusions," Science Engineering Technology, SET'96, 1996.
861. H. Thimbleby, "Benjamin Franklin," Conference of Professors and Heads of Electrical Engineering, 1996.
862. H. Thimbleby, "Digital cryptography," Edinburgh International Science Festival, 1996.
863. H. Thimbleby, "Future of the Internet," Science Engineering Technology, SET'96, 1996.
864. H. Thimbleby, "Systematic Web Authoring," *The Missing Link: Hypermedia Usability Research & The Web*, Open University, 1996.
865. H. Thimbleby, "Calculators: Controversy & Deception," Edinburgh International Science Festival, 1995.
866. H. Thimbleby, "Computers and Communications," *British Association for Advancement of Science Annual Conference*, Newcastle, 1995.
867. H. Thimbleby, "3D Pictures," Edinburgh International Science Festival, 1994.
868. H. Thimbleby, "Autostereograms," Use Your Head Society, 1994.
869. M. A. Addison & H. Thimbleby, "Hyperdoc Demonstration," *BCS Conference on People and Computers, HCI'94 Demonstration Session*, 1994.
870. H. Thimbleby, "'Fifth Generation' User Interfaces: The Way Ahead For Complex Systems," *BCS Conference on People and Computers, HCI'94 Demonstration Session*, 1994.
871. H. Thimbleby, "Designing Easy to Use Gadgets," IEE Surrey Region AGM Lecture, 1993.
872. H. Thimbleby, "Formulating Usability," *Workshop on Formal Methods for the Design of Interactive Systems*, York, 1993.
873. H. Thimbleby, "Interaction Style," *BCS Electronic Publishing Specialist Group Conference*, 1993.
874. H. Thimbleby, "New Consumer Interfaces," *BCS Conference on People and Computers, Industrial Programme, VIII*, 1993.
875. H. Thimbleby, "Science for Technophobics," Edinburgh International Science Festival, 1993.
876. H. Thimbleby, "Why Are Children Better At Using Video Recorders Than Their Parents?" *British Association for Advancement of Science Annual Conference*, Bristol, 1993.
877. H. Thimbleby, "Human Computer Interfaces," *The Scottish Computer Show*, Glasgow, 1992.
878. H. Thimbleby, "Principles for User Enhanceable Systems," *Department of Trade and Industry User Enhanceable Systems Programme*, London, 1992.
879. H. Thimbleby, "Usability by Design," *Conference on Open Systems, Scottish Enterprise/Forth Valley Enterprise Conference*, 1992.
880. H. Thimbleby, "Video Recorders Adults Can Use," *Edinburgh International Science Festival*, Edinburgh, 1992.
881. H. Thimbleby, "Computer Viruses or Free Speech?" Edinburgh International Science Festival, 1991.

882. 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.
883. H. Thimbleby, "Humans are Computers Too!" Edinburgh International Science Festival, 1991.
884. H. Thimbleby, "HyperCard: An Object-Oriented Disappointment," *Joint meeting of BCS HCI and OOPS Specialist Groups*, Glasgow, 1991.
885. H. Thimbleby, "JCI Database (software demonstration)?" Joint Research Councils' Initiative Meeting, 1991.
886. H. Thimbleby, "New Approaches to Design," *Second Joint Research Council Summer School*, London, 1991.
887. H. Thimbleby, "The Main Problem in HCI," *Panel Session, BCS Conference on People and Computers, HCI'91*, Edinburgh, 1991.
888. H. Thimbleby, "Artificial Life," *St. Andrew's Diocesan Conference*, 1990.
889. H. Thimbleby, "Bugs in HyperCard," *Joint Research Council Summer School*, Edinburgh, 1990.
890. H. Thimbleby, "Computer Viruses (panel)," *Second International Artificial Life Conference*, Santa Fe, USA, 1990.
891. H. Thimbleby, "Information Technology: High Technology and a Risk Activity," *Comett Workshop*, Montpellier, 1990.
892. H. Thimbleby, "Panel," Edinburgh International Science Festival, 1990.
893. H. Thimbleby, "Putting Computer Viruses to Good Use!" Edinburgh International Science Festival, 1990.
894. H. Thimbleby, "Using Menus," *Scottish HyperCard Users' Group Meeting*, 1990.
895. H. Thimbleby, "Bugs," Edinburgh International Science Festival, 1989.
896. H. Thimbleby, "Computer Viruses," *Computer Support for Teaching Workshop*, Stirling University, 1989.
897. H. Thimbleby, "Formal Methods in HCI," *IFIP Workshop*, 1989.
898. H. Thimbleby, "Simple Algebraic Properties of Interfaces," *Reasoning about Interaction, Alvey Workshop*, York, 1989.
899. H. Thimbleby, "User vs Designer: The Case of Bugs," *Computers—Visions for the Future*, Canon Research Europe, 1989.
900. H. Thimbleby, "Author's Cross Referencing," *BCS Software Engineering Specialist Group*, Manchester, 1988.
901. H. Thimbleby, "User Models," *BCS Conference on Expert Systems'88*, Brighton, 1988.
902. H. Thimbleby, "SIRUP: A SIR Utility Program," *Elliott Computer Users' Group Annual Meeting*, 1976.

5.5 Other invited lectures, webinars, and seminars

903. H. Thimbleby, "Bad and misunderstood digital needs fixing," University of York, 2024.
904. H. Thimbleby, "The connections between the Grenfell fire, the Post Office Horizon scandal, and NHS digital healthcare, and what to do about it," University of Glasgow, 2024.
905. H. Thimbleby, "The Post Office Horizon scandal and NHS digital healthcare," UCL, London, 2024.
906. H. Thimbleby, "Interview," University of Pennsylvania, USA, 2023.
907. H. Thimbleby, "Quack IT and how to Fix IT," Cardiff University, 2023.
908. H. Thimbleby, "Quack IT and how to Fix IT," Swansea University, 2023.
909. H. Thimbleby, "Fix IT workshop in digital healthcare," InterSystems, Windsor, UK, 2022.
910. H. Thimbleby, "Ann Blandford and UCLIC," UCL, London, 2022.
911. H. Thimbleby, "We need to Fix IT in digital healthcare," Swansea MSc Health Informatics, 2022.
912. H. Thimbleby, "Fix IT in digital healthcare," Corti, Copenhagen, 2022.
913. H. Thimbleby, "Answering questions on digital healthcare," University of Pennsylvania, USA, 2021.
914. H. Thimbleby, "Principles of Human Factors Engineering for Trustworthy Medical Device Software," Food and Drug Administration (FDA), USA, 2021.

915. H. Thimbleby, "NHS Digital Regulation is Broken," University of Manchester, 2021.
916. H. Thimbleby, "Answering questions on digital healthcare," University of Buffalo, USA, 2021.
917. H. Thimbleby, "Answering questions on digital healthcare," University of Pennsylvania, USA, 2020.
918. H. Thimbleby, "Let's fix digital healthcare," MIT, Boston, USA, 2020.
919. H. Thimbleby, "Nobody understands digital healthcare," University of Victoria, Canada; University of Buffalo, USA; University of Pennsylvania, USA, 2020.
920. H. Thimbleby, "Digital Theater," University of Texas, Health Sciences, Houston, USA, 2020.
921. H. Thimbleby, "Nobody understands digital healthcare," Clinical Decision Support, University College Hospital, 2020.
922. H. Thimbleby, "Computational Thinking in Healthcare," Edinburgh University, 2019.
923. H. Thimbleby, "Options for our future digital health," Institute of Healthcare Engineering, UCL, London, 2019.
924. H. Thimbleby, "Safer healthcare IT," University of Pennsylvania, Philadelphia, 2019.
925. H. Thimbleby, "Safer healthcare IT," SRI International (SRI), San Francisco, 2019.
926. H. Thimbleby, "CLSP Episode 10 - 26/10/2018 — Prof. Harold Thimbleby, healthtech and the NHS, Johnny English review," *Podcast*, 2018. <https://soundcloud.com/sara-correia-713184527/clsp-episode-10-26102018-prof-harold-thimbleby-healthtech-and-the-nhs-johnny-english-revi>
927. H. Thimbleby, "Digital and cybersecurity chaos in healthcare — and fixing it?" Queen Mary University of London, 2018.
928. H. Thimbleby, "Healthcare at the interface," *British Computer Society ICT Ethics Specialist Group*, London, 2018.
929. H. Thimbleby, "Clear thinking about IT in Healthcare," Manchester University, UK, 2017.
930. H. Thimbleby, "Fixing bugs in Healthcare," University of Bonn, Germany, 2017.
931. H. Thimbleby, "Fixing healthcare IT," University of Michigan, USA, 2017.
932. H. Thimbleby, "Modern lessons from the German Enigma," repeated 3 times, University of Michigan, USA, 2017.
933. H. Thimbleby, "Challenging how we think about IT for improving and protecting the nation's health," *Public Health England*, Porton Down, 2016.
934. H. Thimbleby, "Incentivising the quality of software, hardware and systems," *Cyber safety and resilience: Strengthening the digital systems that support critical infrastructure and the internet of things*, Royal Academy of Engineering, London, 2016.
935. H. Thimbleby, "Opportunities for research in Health IT," Toulouse, France, 2016.
936. R. Koppel & H. Thimbleby, "Critical Issues in Electronic Health Record (EHR) Patient Safety," SafetyLeaders.org webinar, 2015.
937. H. Thimbleby, "Devices are not equally safe: Buy and use them carefully," *National Medical Devices Safety Network*, NHS Webex, 2015.
938. H. Thimbleby, "Failure of medical device regulation," Cambridge University, 2015.
939. H. Thimbleby, "Human Factors and missed solutions to WWII Enigma design weaknesses," Cambridge University, 2015.
940. H. Thimbleby, "Outside In: Health-Tech Continuum," *Politico TV*, Washington DC, USA, 2015.
941. H. Thimbleby, "The best way to improve healthcare is to improve programmers," Høyteknologisenteret i Bergen, Norway, 2015.
942. H. Thimbleby, "The World War II Enigma and its Human Factors lessons," University of Bergen, Norway, 2015.
943. H. Thimbleby, "At Least You Can Trust Your Calculator — Or Can You?" Johns Hopkins University, Baltimore, 2014.
944. P. Masci & H. Thimbleby, "Broken Interfaces," US Food and Drug Administration (FDA), MD, USA, 2014.
945. H. Thimbleby, "Computers and Devices as Team Players in Hospitals???" San Francisco General Hospital, California, 2014.

946. H. Thimbleby, "Healthcare's IT Crisis, Informatics Grand Rounds Lecture," Johns Hopkins University, Baltimore, 2014.
947. H. Thimbleby, "Medical devices," Agora, Swansea, 2014.
948. H. Thimbleby, "Overview of Human-Computer Interaction," Lingnan University, Hong Kong, 2014.
949. H. Thimbleby, "Safer healthcare IT," Microsoft Research, UK, 2014.
950. H. Thimbleby, "Safer Healthcare IT," Cambridge University, 2014.
951. H. Thimbleby, "Safety versus Security in Healthcare IT," Cambridge University, 2014.
952. H. Thimbleby, "The World War II Engima: Avoidable bad design that lost a war," Swansea Sketty Club, 2014.
953. H. Thimbleby, "Designing to Make Error Visible," University of Malta, 2013.
954. H. Thimbleby, "Human Error Is Not The Problem," University of Kentucky, KY, USA, 2013.
955. H. Thimbleby, "Human Error Is Not The Problem," University of Maryland, MD, USA, 2013.
956. H. Thimbleby, "Human Error Is Not The Problem," University of Pennsylvania, PA, USA, 2013.
957. H. Thimbleby, "Identifying fixable problems in healthcare IT," Mater Dei Hospital, Malta, 2013.
958. H. Thimbleby, "Improving Healthcare for Everyone," Hong Kong Ergonomics Society, Hong Kong, 2013.
959. H. Thimbleby, "Improving Healthcare for Everyone by Understanding Humans and Technology," Lingnan University, Hong Kong, 2013.
960. H. Thimbleby, "Safety and the Design of Devices," Royal College of Physicians, London, 2013.
961. H. Thimbleby, "Security and Safety Overlaps," Reykjavik University, Iceland, 2013.
962. H. Thimbleby, "Social Network Analysis and Interactive Device Design Analysis," Networks Research Group, Swansea University, 2013.
963. H. Thimbleby, "Testing Safe Interaction," TEDx, 2013.
964. H. Thimbleby, "Toast to the College," Royal College of Physicians, Edinburgh, 2013.
965. H. Thimbleby, "Traffic lights for medical device input," US Food and Drug Administration (FDA), MD, USA, 2013.
966. H. Thimbleby, "Designing safer medical devices," Queen Mary, London, 2012.
967. H. Thimbleby, "Human Error Is Not The Problem," Fraunhofer Institute, Mannheim, Germany, 2012.
968. H. Thimbleby, "Interactive Numbers," SRI International (SRI), San Francisco, 2012.
969. H. Thimbleby, "Re-affordance — Taking affordance into interaction," Smith-Kettlewell Eye Research Institute, 2012.
970. H. Thimbleby, "Safer Medical Systems," Nanyang Technological University, Singapore, 2012.
971. H. Thimbleby, "Thinking about Computers," A*Star (Agency for Science, Technology and Research), Singapore, 2012.
972. H. Thimbleby, "Welsh Computer Science," Wales Science Advisory Committee, 2012.
973. H. Thimbleby, "Avoiding computer-provoked 'human error' in medical systems," Health Sciences and Technology, MIT, 2011.
974. H. Thimbleby, "Avoiding death by computer," Swansea Science Café, 2011.
975. H. Thimbleby, "Computational approaches to reducing error," SRI International (SRI), San Francisco, 2011.
976. H. Thimbleby, "Computer Science," Cadbury College, Birmingham, 2011.
977. H. Thimbleby, "Computer Systems and Human Error," UCL, 2011.
978. H. Thimbleby, "Designing Safer Systems," Shanghai Jiao Tong University, 2011.
979. H. Thimbleby, "Designing Safer Systems," Nanjing University, 2011.
980. H. Thimbleby, "Helping industry, Helping healthcare, Doing engineering, Pushing science?" UCL, 2011.
981. H. Thimbleby, "Interactive numbers," City University, 2011.
982. H. Thimbleby, "Num63r bug5," Sussex University, 2011.
983. H. Thimbleby, "Numbers, Numbers Everywhere, and None you can Trust — Not Yet!" Cardiff

Scientific Society, 2011.

984. H. Thimbleby, "Reducing Mortality from IT Bugs," University of California at Berkeley, 2011.
985. H. Thimbleby, "Rules for dependable number entry," UCL, 2011.
986. H. Thimbleby, "Seeing Bugs in Systems," Fudan University, 2011.
987. H. Thimbleby, "Tools and techniques for analysing medical devices," UCL, 2011.
988. H. Thimbleby, "Unseen bugs: Reducing mortality," Brunel University, 2011.
989. H. Thimbleby, "'Human error' in Automated Medical Systems," BCS Mid Wales AGM, 2011.
990. H. Thimbleby, "From machine guns to traffic lights," Middlesex University, 2010.
991. H. Thimbleby, "Impossible Errors," Cognitive Match, London, 2010.
992. H. Thimbleby, "Problems in human error—Problems are everywhere," University of Cardiff, 2010.
993. H. Thimbleby, "Safer by numbers," Georgia Tech, Atlanta, USA, 2010.
994. H. Thimbleby, "Using digital stories for research and learning," George Ewart Evans Centre for Storytelling, Glamorgan, 2010.
995. H. Thimbleby, "Avoiding death by computer," University of Pennsylvania, 2009.
996. H. Thimbleby, "Avoiding designed-in errors in interactive medical devices," Engineering Department, University of Cambridge, 2009.
997. H. Thimbleby, "Best of people and computers," Georgia Tech, Atlanta, 2009.
998. H. Thimbleby, "Dependable interactive devices, why we need them, how to get them," UCL, 2009.
999. H. Thimbleby, "Devices encourage errors—What if they detected them too?" University of Texas at Houston, 2009.
1000. H. Thimbleby, "Enjoying and Getting Research Degrees Reliably," Editorial Talk for for the Department of Computer Science, Swansea University, 2009.
1001. H. Thimbleby, "From research to writing," UCL, 2009.
1002. H. Thimbleby, "How CS is science," Royal Society, 2009.
1003. H. Thimbleby, "Interactive medical device design," Georgia Tech, Atlanta, 2009.
1004. H. Thimbleby, "Keynote notes," Apple Computer, Pittsburgh, 2009.
1005. H. Thimbleby, "Killer applications in hospitals," University of Manchester, 2009.
1006. H. Thimbleby, "Killer applications? Simple but widespread programming problems that are usually ignored," MIT, 2009.
1007. H. Thimbleby, "Misunderstood human error and some consequences," Psychology Department, Swansea University, 2009.
1008. H. Thimbleby, "Moving from user interface design to interaction programming," MIT, 2009.
1009. H. Thimbleby, "Saving lives with science," Royal Society, 2009.
1010. H. Thimbleby, "Science fights ignorance and computer science saves lives (or you should stay out of hospital until it does)," Christ College Brecon, 2009.
1011. H. Thimbleby, "User error—The interaction programming view," University of Texas at Houston, 2009.
1012. H. Thimbleby, "Desiging Interactive Systems," Bombay Indian Institute of Technology (BIIT), Mumbai, 2008.
1013. H. Thimbleby, "Interaction programming in use," Microsoft Research, Bangalore, 2008.
1014. H. Thimbleby, "Keeping People Alive with CS & HCI," Visible Lunch, Swansea University, 2008.
1015. H. Thimbleby, "Life & death issues with compiling," Wolverhampton, 2008.
1016. H. Thimbleby, "Life, death & computer science," Aberystwyth, 2008.
1017. H. Thimbleby, "Reducing designed-in errors," Birmingham University, 2008.
1018. H. Thimbleby, "Understanding designed-in errors in interactive devices," Newcastle University, 2008.
1019. H. Thimbleby, "A New Slice of Cheese," University of Surrey, 2007.
1020. H. Thimbleby, "A New Sort of Calculator," University of California at Berkeley, 2007.
1021. H. Thimbleby, "A New Sort of Calculator," MIT, 2007.
1022. H. Thimbleby, "A New Sort of Calculator," Tufts University, Boston, USA, 2007.
1023. H. Thimbleby, "Digital Stories," Stanford University, California, 2007.

1024. H. Thimbleby, "Improving Interactive Systems," Hamilton Institute, Ireland, 2007.
1025. H. Thimbleby, "Press On," Taliesin Theatre, Swansea, 2007.
1026. H. Thimbleby, "Problems and Solutions with Simple Interactive Devices," 2007.
1027. H. Thimbleby, "Problems and Solutions with "Simple" Interactive Devices," *Stanford University, CS 47: Seminar on People, Computers and Design*, 19 January, 2007.
1028. H. Thimbleby, "The Usability of Medical Devices," University of Bielefeld, Germany, 2007.
1029. H. Thimbleby, "Calculators," Welsh National Eisteddfod, 2006.
1030. H. Thimbleby, "Digital Stories for UCD," Microsoft Research Cambridge, 2006.
1031. H. Thimbleby, "Hands-on calculators," National Waterfront Museum, Wales, 2006.
1032. H. Thimbleby, "Interaction Technology and Its Impact on Science," Department for Environment, Food and Rural Affairs (DEFRA), 2006.
1033. H. Thimbleby, "New Computer User Interfaces," St. Andrews University, 2006.
1034. H. Thimbleby, "Reliable software publishing," Newcastle University, 2006.
1035. H. Thimbleby, "Schools Lecture," Glasgow University, 2006.
1036. H. Thimbleby, "Science Café," Welsh National Eisteddfod, 2006.
1037. H. Thimbleby, "Science Café," Swansea, 2006.
1038. H. Thimbleby, "The Cargo Cult of Calculators (And a Cure)," St. Andrews University, Scotland, 2006.
1039. H. Thimbleby, "The Cargo Cult of Everyday Computing (And a Cure)," St. Andrews University, Scotland, 2006.
1040. H. Thimbleby, "The Cargo Cult of Mobile Phones (And a Cure)," St. Andrews University, Scotland, 2006.
1041. H. Thimbleby, "The Cargo Cult of Scientific Computing (And a Cure)," St. Andrews University, Scotland, 2006.
1042. H. Thimbleby, "Thinking out of the Computer Science Cargo Cult Box," St. Andrews University, Scotland, 2006.
1043. H. Thimbleby, "A chance to change the world with a new user interface," Nottingham University, 2005.
1044. H. Thimbleby, "Bad (computer) Science," Bangor University, Wales, 2005.
1045. H. Thimbleby, "Building the Future with Weapons of Maths Construction," Glasgow University Lecture, 2005.
1046. H. Thimbleby, "Cargo Cult Computer Science," Glasgow University, 2005.
1047. H. Thimbleby, "New approaches to interaction: the case of the calculator," with W. Thimbleby, Cardiff University, 2005.
1048. H. Thimbleby & W. Thimbleby, "New Calculators," London Knowledge Laboratory, 2005.
1049. H. Thimbleby & W. Thimbleby, "New Calculators," Oxford University, 2005.
1050. H. Thimbleby, "See the future . . . Tomorrow's technology today," Exhibition in National Waterfront Museum, 2005.
1051. H. Thimbleby, "Varieties of HCI," UCL, 2005.
1052. H. Thimbleby, "Building the Future with Weapons of Maths Construction," Open University, 2004.
1053. H. Thimbleby, "Cargo Cult Computer Science," Open University, 2004.
1054. H. Thimbleby, "Computer Programming," Hampstead Scientific Society, London, 2004.
1055. H. Thimbleby, "Fixing Calculators," Newcastle University, 2004.
1056. H. Thimbleby, "Mobile Phones," London Nautical School, 2004.
1057. H. Thimbleby, "Digital Cryptography," UCL Science Society, 2003.
1058. H. Thimbleby, "Doing computer science better," Birkbeck College, 2003.
1059. H. Thimbleby, "How and why to make computer science better," Brunel University, 2003.
1060. H. Thimbleby, "Maths in Action," Royal Institution, London, 2003.
1061. H. Thimbleby, "Revoltng Calculators," UCL Lunch Time Lecture, 2003.
1062. H. Thimbleby, "Safer Calculators," UCL Lunch Time Lecture, 2003.
1063. H. Thimbleby, "User Interface Design," Lancaster University, 2003.
1064. H. Thimbleby, "Warfare and Modern Cryptogrphay," UCL Science Society, London, 2003.

1065. H. Thimbleby, "Computer Science of Everyday Things," Otago University, New Zealand, 2002.
1066. H. Thimbleby, "Hands-on Cryptography: How the Internet Changes the Rules," Science Centre, Mathematical & Physical Sciences Faculty Lecture, UCL, 2002.
1067. H. Thimbleby, "Mobile Phones," St. Paul's Girls School, London, 2002.
1068. H. Thimbleby, "Public Key Cryptography," Middlesex University, 2002.
1069. H. Thimbleby, "Revoltng calculators," Invariant Society, Oxford University, 2002.
1070. H. Thimbleby, "Symmetry," Nanyang Technological University, Singapore, 2002.
1071. H. Thimbleby, "Tour of New Zealand Universities: Talks On Computer Science Research and Cryptography," Lecture Tour, 10 lectures, in each NZ university, 2002.
1072. H. Thimbleby, "Affordance and User Interface Design," University College London, 2001.
1073. H. Thimbleby, "Affordance & Symmetry," Human-Computer Interaction Institute, Carnegie Mellon University, USA, 2001.
1074. H. Thimbleby, "Challenges in HCI," Tufts University, Boston, USA, 2001.
1075. H. Thimbleby, "Computer Science and Everyday Things," de Montfort University, 2001.
1076. H. Thimbleby, "Future Personal Technologies," Tufts University, Boston, USA, 2001.
1077. H. Thimbleby, "Justice and Programming," BCS Ethics Committee, London, 2001.
1078. H. Thimbleby, "Symmetry," Georgia Institute of Technology, Atlanta, USA, 2001.
1079. H. Thimbleby, "Symmetry & Affordance," University of Cape Town, South Africa, 2001.
1080. H. Thimbleby, "Ticket Machines and Ubiquitous Computing," Aware Home Research Initiative, Georgia Institute of Technology, 2001.
1081. 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.
1082. H. Thimbleby, "Ubiquitous User Interfaces," University of Bath, 2001.
1083. H. Thimbleby, "User Interface Design," George Mason University, USA, 2001.
1084. H. Thimbleby, "Computer Ethics," House of Lords, London, 2000.
1085. H. Thimbleby, "Computer Science of Everyday Things," Stellenbosch University, South Africa, 2000.
1086. H. Thimbleby, "Computer Science of Everyday Things," University of Cape Town, South Africa, 2000.
1087. H. Thimbleby, "Computer Science of Everyday Things," Cambridge University, 2000.
1088. H. Thimbleby, "Contributions from Computing," University of South Africa, 2000.
1089. H. Thimbleby, "Interaction Design," University of York, 2000.
1090. H. Thimbleby, "Interaction Design," Microsoft Research, Cambridge, 2000.
1091. H. Thimbleby, "The Crisis in Computer Science," Stellenbosch University, South Africa, 2000.
1092. H. Thimbleby, "Analytic Approaches to User Interfaces," Southampton University, 1999.
1093. P. Cairns & H. Thimbleby, "Computer Viruses," Kings College London, 1999.
1094. H. Thimbleby, "Inspiration, Insight, Influence," Rutgers University, USA, 1999.
1095. H. Thimbleby, "Interactive Design," Centre for Electronic Arts, London, 1999.
1096. H. Thimbleby, "On Discerning Users," Royal Institute of Technology, Sweden, 1999.
1097. H. Thimbleby, "3D Vision," National Association for Gifted Children, 1998.
1098. H. Thimbleby, "Calculators and the Imagination," IEE Science, Education and Technology Division Lecture, 1998.
1099. H. Thimbleby, "Creative and Effective Design: A Critique of the Culture of Amazing Technology," BCS Evening Lecture at University of West of England, 1998.
1100. H. Thimbleby, "Dangerous Toys," IEE Surrey Region AGM Lecture, 1998.
1101. H. Thimbleby, "Ethics of the Internet," Guildford Cathedral Lecture, 1998.
1102. H. Thimbleby, "Gadgets: Fun or Dangerous?" Interactive Information Institute and Centre for Design, Royal Melbourne Institute of Technology, Victoria, Australia, 1998.
1103. H. Thimbleby, "Internet Ethics and Security," VIP Briefing, Investment Centre, Melbourne, Victoria, Australia, 1998.
1104. H. Thimbleby, "Internet Evenings," Chambers of Commerce, Haringey, North London, 1998.
1105. H. Thimbleby, "Java: A Critique," Melbourne University, Victoria, Australia, 1998.
1106. H. Thimbleby, "Magic Pictures," Courtyard Arts, Hertford, 1998.

1107. H. Thimbleby, "Morality and the Information Society," Department of Electronic and Electrical Engineering, University College, London, 1998.
1108. H. Thimbleby, "System Design," Evening lecture, The Oxford Trust, 1998.
1109. H. Thimbleby, "The Internet," Warwick University Information Systems Seminar, 1998.
1110. H. Thimbleby, "The Internet and the Global Stage," Royal Melbourne Institute of Technology, Victoria, Australia, 1998.
1111. H. Thimbleby, "Calculators," Canon Research Europe, 1997.
1112. H. Thimbleby, "Cryptography," St. Alban's School, 1997.
1113. H. Thimbleby, "Internet Ethics," Shirley Methodist Church, Christchurch, New Zealand, 1997.
1114. H. Thimbleby, "Java," Calgary University, 1997.
1115. H. Thimbleby, "User Interfaces," Cheltenham & Gloucester College, 1997.
1116. H. Thimbleby, "Web Authoring," University of Waikato, 1997.
1117. H. Thimbleby, "Web Authoring," University of Christchurch, 1997.
1118. H. Thimbleby, "Web Authoring and Java," Queen Mary & Westfield College, 1997.
1119. H. Thimbleby, "3D Illusions," lecture at SET'96, London, 1996.
1120. H. Thimbleby, "Cryptography," Southgate Amateur Radio Club, 1996.
1121. H. Thimbleby, "From Faxing to Flying: Guaranteeing Better and Safer Systems," Philips Research Labs, Reading, 1996.
1122. H. Thimbleby, "Future of the Internet," lecture at SET'96, London, 1996.
1123. H. Thimbleby, "Internet Ethics," Reading UCCF, 1996.
1124. H. Thimbleby, "The Internet Debate," Huddersfield University, 1996.
1125. H. Thimbleby, "From Faxing to Flying: Guaranteeing Better and Safer Systems," IEE Evening Lecture, London, 1995.
1126. H. Thimbleby, "Generating Hypertext Automatically," University College London (Computer Science), 1995.
1127. H. Thimbleby, "Mathematical Approaches to Hypertext," Centre for Electronic Arts, London, 1995.
1128. H. Thimbleby, "Opening the IT Department," Bilton Grange School, Rugby, 1995.
1129. H. Thimbleby, "The Internet: Its Use and Abuse," IMechE (Greater London Branch) Evening Lecture, London, 1995.
1130. H. Thimbleby, "Tools for the World Wide Web," University College London (Ergonomics Unit), 1995.
1131. H. Thimbleby, "A New Calculator And Why It Is Necessary," MRC Applied Psychology Unit, Cambridge, 1994.
1132. H. Thimbleby, "A New Calculator And Why It Is Necessary," University of York, 1994.
1133. H. Thimbleby, "Autostereograms," St. Andrew's University (Department of Physics), 1994.
1134. H. Thimbleby, "Finite State Machines Rehabilitated," Glasgow University, 1994.
1135. H. Thimbleby, "Formal User Interfaces," Loughborough University, 1994.
1136. H. Thimbleby, "New Calculators," Sharp Research Laboratories, UK, 1994.
1137. H. Thimbleby, "Putting The Engineering Back Into Usability Engineering," Hewlett Packard Laboratories, 1994.
1138. H. Thimbleby, "Talking to Machines," Centre for Cognitive Science/Human Communication Research Centre, Edinburgh, 1994.
1139. H. Thimbleby, "Beyond Mere Hypertext," Queen Mary & Westfield College, London, 1993.
1140. H. Thimbleby, "Creative Hypertext," University of York, 1993.
1141. H. Thimbleby, "Generating Manuals," Canon Research Centre Europe, 1993.
1142. H. Thimbleby, "Hypertext and Finite State Machines," University of Waikato, New Zealand, 1993.
1143. H. Thimbleby, "Hypertext and Finite State Machines," Sheffield University, 1993.
1144. H. Thimbleby, "Statecharts," Heriot-Watt University, 1993.
1145. H. Thimbleby, "The Medieval State of Computing and How to Get Beyond It," Arthur Andersen & Co., Oslo, Norway, 1993.
1146. H. Thimbleby, "Can Humans Think?" Bristol University (Psychology Dept), 1992.

1147. H. Thimbleby, "Software Rot," Heriot-Watt University, 1992.
1148. H. Thimbleby, "User Interface Design," Sharp Research Laboratories, UK, 1992.
1149. H. Thimbleby, "Users as Programmers," Sussex University (Cognitive Science), 1992.
1150. H. Thimbleby, "Users as Programmers," Open University 'distinguished lecture' (Human Computer Research Laboratory), 1992.
1151. H. Thimbleby, "When Monkeys Out-do Shakespeare," Salford University, 1992.
1152. H. Thimbleby, "HCI," Logica, Cambridge, 1991.
1153. H. Thimbleby, "Liveware," Aldus UK, Edinburgh, 1991.
1154. H. Thimbleby, "Liveware," IBM, Warwick, 1991.
1155. H. Thimbleby, "The Microwave," Calgary University, Canada, 1991.
1156. H. Thimbleby, "The Video Recorder," Calgary University, Canada, 1991.
1157. H. Thimbleby, "Video Recorders to Multimedia: Bad Computer Science," Exeter University, 1991.
1158. H. Thimbleby, "Where Computer Science Fails Us," Aston University, 1991.
1159. H. Thimbleby, "Liveware," York University, 1990.
1160. H. Thimbleby, "The Scottish HCI Database," Scottish HCI Group, Heriot-Watt University, 1990.
1161. H. Thimbleby, "User Interface," Dundee University, 1990.
1162. H. Thimbleby, "Viruses are Here to Stay," Evening Lecture, Stirling University, Scotland, 1990.
1163. H. Thimbleby, "Viruses & Cooperation," Canon Research Europe, 1990.
1164. H. Thimbleby, "Bugs, Viruses and Liveware," Glasgow University, 1989.
1165. H. Thimbleby, "Delaying Commitment," Imperial College, 1989.
1166. H. Thimbleby, "Liveware Distribution," Heriot-Watt HCI Centre Open Day, Scotland, 1989.
1167. H. Thimbleby, "On HCI," Stirling University, Scotland, 1989.
1168. H. Thimbleby, "The Fashionable User Model," Calgary University Open Day, Canada, 1989.
1169. H. Thimbleby, "Bugs," Calgary University, Canada, 1988.
1170. H. Thimbleby, "Cross Referencing," Stanford University, California, 1988.
1171. H. Thimbleby, "HIC," Xerox EuroParc, 1988.
1172. H. Thimbleby, "Liveware," Queen Mary College, London University, 1988.
1173. H. Thimbleby, "Modes and WYSIWYG," Calgary University, Canada, 1988.
1174. H. Thimbleby, "Review of User Interface Design," Calgary University, Canada, 1988.
1175. H. Thimbleby, "The von Neumann Bottleneck," Stanford University, California, 1988.
1176. H. Thimbleby, "The von Neumann Bottleneck," York University, 1988.
1177. H. Thimbleby, "User Interface Design," University College London (Ergonomics Unit), 1988.
1178. H. Thimbleby, "User Models," Calgary University, Canada, 1988.
1179. H. Thimbleby, "Human-HCI-Interaction," Edinburgh University (Computer Science), 1987.
1180. H. Thimbleby, "Literate Programming," Logica, London, 1987.
1181. H. Thimbleby, "Ease of use — the ultimate deception," University of Alberta, Canada, 1986.
1182. H. Thimbleby, "Ease of use — the ultimate deception," Calgary University, Canada, 1986.
1183. H. Thimbleby, "Equal Opportunity Interaction," Stanford University, California, 1986.
1184. H. Thimbleby, "Equal Opportunity Interactive Systems and Innovative Design," Calgary University, Canada, 1986.
1185. H. Thimbleby, "Non-Standard Models," Calgary University, Canada, 1986.
1186. H. Thimbleby, "Design of a Display Editor," Eidgenössische Technische Hochschule, Zürich, 1980.

5.6 Selected videos, and videoed lectures

1187. H. Thimbleby, "Trust me, I'm a computer?" Royal College of Physicians, London, 2016.
<https://www.youtube.com/watch?v=H44G999DxLM>
1188. H. Thimbleby, "Saving Lives by Design," *You Tube*, 2011.
<http://harold.thimbleby.net/saferdesign>
1189. H. Thimbleby, "Numbers to Die 4," *Thirty Sixth Annual Convention of the Society for the Study of Artificial Intelligence and Simulation of Behaviour (AISB'10)*, Keynote, Leicester, 2010. http://www.youtube.com/watch?v=_GNGjP4xB1M

1190. H. Thimbleby, “Problems with a Syringe Pump,” *YouTube*, 2008.

5.7 Exhibitions

1191. H. Thimbleby & W. Thimbleby, “See the future ... Tomorrow’s technology today,” *National Waterfront Museum*, Swansea, 2005.

5.8 Debates

1192. H. Thimbleby, “This House believes that clinicians should be allowed to directly code and create health apps,” *Let’s Talk Digital*, Gloucester, 2023.
1193. H. Thimbleby, “Science panel,” *The Uneasy Sleeps of Max Maxwell ... waking up to artificial intelligence*, Bristol and Abergavenny, 2023.
1194. H. Thimbleby, “This House Believes ‘smart’ Tagging is Acceptable and Essential for Our Future,” *Ubiconf 2004*, London, 2004.
1195. H. Thimbleby, “This House Believes Internet Ethics Isn’t and We Should All be Anarchists,” *Real Time Club*, National Liberal Club, London, 2003.
1196. 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.
1197. 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.
1198. H. Thimbleby, “This House is Not Ready for The Freedom of Cyberspace,” *Cambridge University Union Debating Society*, Cambridge University, 1995.

5.9 Workshops (refereed, published & unpublished)

1199. H. Thimbleby, “Human Factors and Patient Safety,” 2019 Learning Series for Senior Leaders in Health and Social Care, Leading the integration of human factors learning across systems, Newton-le-Willows, 2019.
1200. H. Thimbleby, “Patient safety, digital systems and criminal justice,” Workshop for lawyers, London, 2019.
1201. H. Thimbleby, “Cybersecurity in hospitals,” *Scale Health, Digital Catapult*, London, 2018.
1202. H. Thimbleby, “How I’ve Built My Strategic Network — The Joys and Challenges,” *UK Digital Economy Crucible*, Edinburgh, 2018.
1203. H. Thimbleby, “Recipes for Realistic Research,” Middlesex University, London, 2018.
1204. H. Thimbleby, “Recognising and regulating digital risks in patient safety,” Safety and Regulation of Digital Technologies, Royal College of Physicians, London, 2018.
<https://www.rcplondon.ac.uk/news/safety-and-regulation-digital-technologies>
1205. H. Thimbleby, “Take the red or blue pill? Figuring out the PhD rabbit hole ...,” *STFC Doctoral Workshop*, Swansea, 2018.
1206. H. Thimbleby, “Enjoying and Getting Research Degrees Reliably,” Swansea University Doctoral Training Centre, 2017.
1207. H. Thimbleby, “Mature IT strategies workshop,” Royal College of Physicians, London, 2017.
1208. C. Baber, N. Power, J. Suss, H. Thimbleby & W. Wong, “NDM9 Doctoral Consortium,” *Naturalistic decision-making conference*, Bath, 2017.
1209. H. Thimbleby, “Successful Research Strategies,” *UK Digital Economy Crucible*, Edinburgh, 2017.
1210. H. Thimbleby, “The iceberg illusion: How to enjoy research in a harsh environment,” Swansea University Research Forum, 2017.
1211. H. Thimbleby, “Turning into Effective HCI Researchers,” *M-iti Doctoral Symposium 2017*, Keynote, Funchal, Madeira, 2017. <https://sites.google.com/view/doctoralsymposium>
1212. H. Thimbleby, “Being Successful in Research Grants (A European Perspective),” *International Workshop on Advances in Research Grants and HCI & HEC*, Keynote, Kochi, Japan, 2016.

1213. H. Thimbleby, "How to put in a winning proposal together," *UK Digital Economy Crucible*, Keynote, York, 2016.
1214. H. Thimbleby, "Innovation and research," University of Bergen, Norway, 2015.
1215. H. Thimbleby, "Improving Safety in Medical Devices and Systems," *Workshop on Security and Human Behaviour*, Keynote, Cambridge, 2014.
1216. H. Thimbleby, "Creativity and Innovation," *Welsh Crucible*, Swansea, 2013.
1217. H. Thimbleby, "Tully Meeting 3: healthcare IT — two sides of the same coin," Royal College of Physicians, London, 2013.
1218. H. Thimbleby, "Tully Meeting 4: Royal College of Physicians Future Hospital Commission," Birmingham University, 2013.
1219. H. Thimbleby, "Tully Meeting 5: health IT funding," Birmingham University, 2013.
1220. H. Thimbleby, "Successful research strategies," Health Communication and Information Strategic Initiative, Singapore, 2012.
1221. H. Thimbleby, "Tully Meeting 2: Next generation technologies (Twitter, Facebook, mobile, etc) and their impact on health," Royal College of Physicians, London, 2012.
1222. H. Thimbleby, "Secrets of Extreme Research," Welsh Crucible, 2011.
1223. H. Thimbleby, "Secrets of Research Success," *SICSA (Scottish Informatics and Computer Science Alliance) PhD Conference 2011*, Keynote, Edinburgh, Scotland, 2011.
1224. A. Blandford, L. Gallo, A. Gimblett, P. Oladimeji, G. D. Pietro & 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*, 81–82, ACM, Pisa, Italy, 2011.
1225. H. Thimbleby, "Tully Meeting 1: The national IT strategy," Royal College of Physicians, London, 2011.
1226. H. Thimbleby, "Extreme research," Georgia Tech, Atlanta, USA, 2010.
1227. H. Thimbleby, "How to write research," UCL, London, 2010.
1228. H. Thimbleby, "Research collaboration," Middlesex University, London, 2010.
1229. R. Flin, J. Gore, R. Hoffman, G. Klein, N. Sevdalis & H. Thimbleby, "NDM9 Doctoral Consortium," *Naturalistic decision-making conference*, London, 2009.
1230. H. Thimbleby, "Reproducible research," Awarehome, Georgia Tech, Atlanta, USA, 2009.
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