

Publications by Ian Benson

(Organized by type, chronological order).
Updated January, 2018

Books and edited collections:

B1. Computer Technology and Employment, National Computer Centre, 1979. This book contained an edited version of the proceedings of an AUEW(TASS) conference (co-hosted by the National Computing Centre) held in 1978 on how computer technology was positively and negatively affecting jobs, policies of trade unions, and other areas.

B2. Intelligent Machinery: Theory and Practice, Cambridge University Press, 1986. This book contained an edited version of the proceedings of an SRI conference (co-hosted by Churchill College, Cambridge) held in 1984 on achieving national self-sufficiency in multi-disciplinary computer science.

B3. World Yearbook of New Generation Computing Research and Development, published in 1988 by North Holland Academic. Edited with Professor Igor Aleksander, Imperial College.

Books written or co-authored:

B4. New Technology and Industrial Change: The impact of the scientific-technical revolution on labour and industry, Nichols (New York) and Kogan Page (London), 1983. Co-authored with John Lloyd, Labour Editor of the Financial Times. This book has become a standard reference on workflow programs, in over 450 libraries, with 96 citations in academic works and specialist journals, in disciplines ranging from sociology to philosophy, economics, political science and system science.

B5. Reasoning about Contingent Events in Distributed Systems, King's College, Cambridge, 1992 (PhD dissertation)

B6. The Primary Mathematics: lessons from the Gattegno School, Lambert Academic Publishing, 2011

Refereed Conference Presentations and Articles

S1. "Computers: More Power, Less Manpower," a chapter in the book Selected Essays in Contemporary Computing, edited by Alan Simpson, Input Two-Nine, U.K., 1979

S2. "Planning for the Computerized Future," edited by P.A. Samet as part of the Proceedings of Euro-IFIP 79, North-Holland Publishing Company, Amsterdam, 1979

S3. "Some Social and Economic Consequences of Groupware for Flight Crew," with Professor Claudio Ciborra of the Institute Theseus, France, and Captain Steven Proffitt of British Airways in Proceedings of 3rd Conference on Computer-Supported Cooperative Work, ACM, 1990

S4. "Notes on the Synthesis of the Firm," Proceedings of the 12th Annual Conference of the International Academy for Information Management in Atlanta, Georgia, 1997

S5. Towards Open Source Modelling, in "E-government at Local Level - Methods for Practitioners," LSE Workshop, March 2001

S6. Transparency and Accountability in "Information and Communication Technologies and the Delivery of Public Services," British Council Seminars, March 2002

S7. "Online political organising: lessons from the field," Proceedings of the 10th ACM conference on Computer-supported cooperative work, ACM, 2004

- S8. Communication as Concurrent Activity, 2008 Algebra Project National Conference "Raising the Floor: Quality Education as a Constitutional Right.," Jackson, Mississippi, 2008
- S9. "Software for Mathematics with Numbers in Color, in "Proc Commission Internationale pour etude et l'Amlioration de l'Enseignement des Mathmatiques", 61e rencontre, Montreal, Canada, July 2009, "QUADERNI DI RICERCA IN DIDATTICA (Scienze Matematiche)" of G.R.I.M. Supplemento n. 2 al N19- PALERMO 2009 (pp505-8)
- S10. The Role of Conceptual Mathematics in Primary School Reform. British Congress of Mathematics Education Conference, April 2010
- S11. Mathematics as Language, Association of Teachers of Mathematics Conference, April 2011
- S12. Experiences with the Cui Curriculum, Association of Teachers of Mathematics Conference, April 2012
- S13. Introduction to the Cui Approach: Part 1 Early Algebra and Part 2 Metamathematics and Formative Assessment, Association of Teachers of Mathematics Conference, April 2013
- S14. "Getting Started with Early Algebra," (with J. Cane and S. Spencer), Primary Mathematics, Mathematical Association, January 2015
- S15. "Functional relationships between patterns of Cuisenaire rods," Mathematics Teacher, March 2015
- S16. "Experiences with Early Algebra," (with J. Cane and S. Spencer), Primary Mathematics, Mathematical Association, September 2015
- S17. The Scientific Revolution Revisited, Education Eye, Prospect, Spring, 2016, 24-25
- S18. On the awareness of patterns of Cuisenaire rods, Mathematical Imagery, ATM, 2016, 32-34
- S19. Using Haskell with 5- to 7- year olds, HelloWorld, Computing at School, Summer, 2017, issue 2, 60-61

Articles, Videos, Podcasts, Blogs on public policy, technology and manpower planning

- P1. "Machines That Mimic Thought," New Scientist, 1972
- P2. "AI and Heuristic Programming," Review, New Scientist, 1972
- P3. "Problem Solving Methods in AI," Review, New Scientist, 1972
- P4. "The new technology: where do we go from here?" Marxism Today, 1979
- P5. "Engineering Our Future," Labour Monthly, 1980
- P6. "Computer Manpower in the 80's," Report of the National Development Council, Electronics Sector Working Party (Computer Manpower Sub-committee), published by Her Majesty's Stationery Office, 1980.
- P7. "Group therapy for a new generation," Guardian, November 8, 1990
- P8. "Back to Barter," Executive Produced with Robb Wilmot, Adrian Johnson, and Ed Goldwyn. This formed the CiTI IT Keynote, a 45-minute VHS published by Sybase Inc., 1993
- P9. "Machine Politics is the Future," New Statesman, 1997
- P10. "Citizen-Centred Electronic Services," which I co-produced with Ed Goldwyn as a 12-minute QuickTime (QT) movie for the 6th ACM Conference on Computer-Supported Cooperative Work, 1998
- P11. "Entrepreneurship: Chips and Tips for On-line Government," Review, Financial Times, 1999

- P12. <http://tizard.stanford.edu/groups/sociality/blog/>, 2002-10
- P13. "Ditching Piaget", Prospect Magazine, January, 2007
- P14. <http://www.youtube.com/user/socialitydottv>, March 2008-
- P15. "Dispatches from the maths wars," Prospect First Drafts, April 2008
<http://www.prospectmagazine.co.uk/2008/04/raising-gattegnos-standard-despatches-from-the-uk-math-war/>
- P16. "Open Systems, Open Minds," Improvement Magazine, Aspect, August 2008
- P17. "Letter from Whitehall," Cambridge University Computer Laboratory Ring Magazine, January 2010
- P18. <http://tizard.stanford.edu/users/ianbenson/blog/>, 2010-
- P19. "Where Social Class, Gender and Generation Intersect," Improvement Magazine, Aspect, January 2011
- P20. "Recognising Children's Mental Powers," Improvement Magazine, Aspect, August 2011
- P21. "To boldly go: can we all be scientific?," Improvement Magazine, Aspect, Spring 2012
- P22. Sociality Mathematics CIC evidence to Advisory Council for Mathematics Education Call for Views on the Draft National Curriculum, June 2012
- P23. "Combination Acts: How schools as self-organised systems can improve and change," Improvement Magazine, Aspect, Autumn 2012
- P24. "Beauty is in the eye of the beholder: A review of Anthony Adonis's Education, Education, Education," Improvement Magazine, Aspect, Summer 2013
- P25. "A mobile learning strategy for the Nation?" Improvement Magazine, Aspect, Spring 2014 (with Melody Drewry)
- P26. "Can computer science rescue mathematics reform?" Cambridge University Computer Laboratory Ring Magazine, September 2014

Technical Reports

- T1. "Sociality in the Distributed Office," SRI Cambridge Computer Science Research Center, 1988
- T2. "Computational Modeling: A Foundation for Re-engineering Management," OASiS Research TR-1, 1991
- T3. "A Standard for Process Performance Modeling in Design/OASiS(tm)" with Adrian Johnson, OASiS Research TR-2, 1991
- T4. "Object-Oriented Enhancements to IDEF," with Adrian Johnson, OASiS Research TR-3, 1992
- T5. "Documentation of the Business Re-engineering Design and Delivery Process," with Adrian Johnson, OASiS Research TR-4, 1992
- T6. "Analysis of OASiS QA, QC and Change Control Processes," with Adrian Johnson, OASiS Research TR-5, 1992
- T7. "A Seminar on Building a Business Process Encyclopedia," with Adrian Johnson, OASiS Research TR-7, 1993
- T8. "Towards a Unified Design Process," OASiS Research TR-8, 1993
- T9. "Enterprise Work Architecture(tm)," with Nigel Vince et al, Sybase Business Consulting, 1995

T10. "Java(tm) Distributed Object Frameworks in Finance," with Dr. David Wilson, ICL, 1997

T11. "From IS Reference to Conceptual and Specification Models," with Ben Galewsky, UBS Warburg, 1998

T12. "Mathematical Structures for Reasoning about Emergent Organisation", with Steve Everhard, Andrew McKernan, Ben Galewsky Chris Partridge, 8th ACM Conference on Computer-Supported Cooperative Work Workshop "Beyond Workflow Management: Supporting Dynamic Organizational Processes", 2000

T13. "Practical Protocol Analysis for System Decomposition and Synthesis", Logic and Semantics Seminar, Cambridge University Computer Laboratory, 2001

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