

## 1 Ian Benson CV

- Address: Honourary Research Fellow, School of Education, University of Roehampton
- Email: [sociality@me.com](mailto:sociality@me.com)
- Online Publications: <https://independent.academia.edu/IanBenson>

## 2 Education

- 1998 Stanford University, CA, Graduate School of Business – Executive Program for Growing Companies
- 1987-92 King’s College, Cambridge - PhD (Computer Science) <http://stanford.edu/~ibenson/webthesis110191.pdf>
- 1985-86 Stanford University, CA - MS (Computer Science, Symbolic Computation)
- 1967-70 Churchill College, Cambridge - MA (Cantab) (Mathematics)
- 1963-67 Manchester Grammar School

## 3 Employment

- 2011 – CEO (acting), Sociality Mathematics CIC
- 1999– CEO (acting), `sociality.{net, com, org, tv}`
  - Tizard algebraFirst(tm) 2004- (DfES, DTI, Shuttleworth Foundation, Sutton Trust, Ogden Trust, Apple, NCETM Maths Hubs)
- 1997–8, ITIM Associates, Partner
- 1996–7, ICL Consultancy, Managing Consultant
- 1991–6, Sybase Inc (OASiS Division), Managing Consultant
  - SBC – Warburg Acquisition: Logistics and Systems Integration Business Architect (Phaedrus 1995-6)
- 1980–8, SRI International (formerly Stanford Research Institute)
  - 1986–8, Programme Manager, SRI Cambridge
  - 1984–6, Founder, SRI Cambridge Computer Science Research Centre
  - 1980–4, Management Systems Consultant, Midland Bank Forex Retail Systems Architect (1982-3)

- 1976-9, Amalgamated Union of Engineering Workers (AUEW), TASS section, Divisional Organiser
- 1970-6, Logica, ITT Data Systems, GEC Elliott; Systems Software Engineer

## 4 Consulting

2000-3, Non-Executive Director, TransEDA plc (US, UK and Germany)

## 5 Professional Associations and Honours

- Honorary Research Fellow, University of Roehampton, 2017-
- General Council, Association of Teachers of Mathematics, 2015-2020 (Standing/Working Groups Officer, 2017-)
- Visiting Professor, Informatics, Kingston University Business School 2009-17
- Visiting Professor, Informatics, Faculty of Computing, Information Systems and Mathematics, Kingston University 2009-11
- National Association of Mathematics Advisors, UK, Member 2008-
- Board Member accellera.org, 2002-3
- Research Scholar, Computer Science, Stanford University, 1998, 2003, 2005 (Human-Computer Interaction), 2010-14
- Doctoral Consortium UK Prize winner. Reasoning About Contingent Events in Distributed Systems. US Society of Information Management, International Conference on Information Systems, 1991
- Member, Program Committee, Association for Computing Machinery (ACM) 3rd CSCW Conference, Los Angeles, 1990
- Visiting Professor, Theseus Institute, France 1990, "Future Information Systems Concepts" seminar series
- Partner, Strategic Technology, Apple Computer Inc, Cannes, 1990
- Member 1980, Fellow 2004, British Computer Society
- Chair, National Economic Development Council, Electronics Sector Working Party, Manpower SubCtte, 1977-83, London

## 6 Selected Publications

### 6.1 Authored Books

- The Primary Mathematics: Lessons from the Gattegno School, Lambert Academic Publishing, 2011
- 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, sometime Labour Editor, Financial Times.

### 6.2 Conference Presentations

- Graphs, Codes, Number Systems and Gattegno. with A Haworth, ATM 2016
- Getting Started with algebraFirst(tm), National Centre for Excellence in the Teaching of Mathematics, 6 London Maths Hubs, July 2015
- Introduction to the Cui Approach: Part 1 Early Algebra, Part 2 Metamathematics and Formative Assessment, (with A Haworth) ATM 2013
- Introduction to the Cui Curriculum, Association of Teachers of Mathematics, April 2012
- Mathematics as Language, Association of Teachers of Mathematics, April 2011
- The Role of Conceptual Mathematics in Primary School Reform. British Congress of Mathematics Education Conference, April 2010
- Software for Mathematics with Numbers in Color, in “Proc Commission Internationale pour Etude et l’Amelioration de l’Enseignement des Mathematiques”, 61 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)
- Communication as Concurrent Activity, 2008 Algebra Project National Conference “Raising the Floor: Quality Education as a Constitutional Right.,” Jackson, Mississippi, 2008
- Online political organizing: lessons from the field, Proceedings of the ACM Conference on Computer Supported Cooperative Work, 2004
- Transparency and Accountability in “Information and Communication Technologies and the Delivery of Public Services,” British Council Seminars, March 2002
- Towards Open Source Modeling, in “E-government at Local Level - Methods for Practitioners,” LSE Workshop, March 2001

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

- Using Haskell with 5- to 7- year olds, *HelloWorld*, Computing at School, Summer, 2017, issue 2, 60-61
- On the awareness of patterns of Cuisenaire rods, *Mathematical Imagery*, ATM, 2016, 32-34
- The Scientific Revolution Revisited, *Education Eye*, Prospect, Spring, 2016, 24-25
- Experiences with Early Algebra, (with J. Cane and S. Spencer), *Primary Mathematics*, Mathematical Association, September 2015, 23-26
- Functional relationships between patterns of Cuisenaire rods, *Mathematics Teaching*, ATM, 245, March 2015, 39-40
- Getting Started with Early Algebra, (with J. Cane and S. Spencer), *Primary Mathematics*, Mathematical Association, January 2015, 3-7
- Can computer science rescue mathematics reform?, *Cambridge Computer Laboratory Ring*, Issue XXXVII, 2014, 7-8
- “Tablets of Wisdom: A mobile learning strategy for the Nation?” *Improvement Magazine*, Aspect, Spring 2014 (with Melody Drewry), 32-34
- “Beauty is in the eye of the beholder: A review of Anthony Adonis’ Education, Education, Education,” *Improvement Magazine*, Aspect, Summer 2013, 38-39
- “Combination Acts: How schools as self-organised systems can improve and change,” *Improvement Magazine*, Aspect, Autumn 2012, 32-34
- Sociality Mathematics CIC evidence to Advisory Council for Mathematics Education Call for Views on the Draft National Curriculum, June 2012
- “To boldly go: can we all be scientific?,” *Improvement Magazine*, Aspect, Spring 2012, 22-23
- “Recognising Children’s Mental Powers: On the work of Caleb Gattegno,” *Improvement Magazine*, Aspect, August 2011, 28-29
- “Where Social Class, Gender and Generation Intersect,” *Improvement Magazine*, Aspect, January 2011, 32-33
- “Letter from Whitehall,” *The Ring*, Cambridge Computer Laboratory Alumni Magazine, January 2010, 4-5
- “A little known initiative - another tribute to Dick Tizard” *Churchill College Review*, December 2008, 45-46

- “Open Systems, Open Minds” Improvement Magazine, Aspect, August 2008, 28
- <http://www.youtube.com/user/socialitydottv>, March 2008-
- “Dispatches from the maths wars,” Prospect First Drafts, April 2008  
www.prospectmagazine.co.uk/2008/04/raising-gattegnos-standard-despatches-from-the-uk-math-war/
- “Ditching Piaget,” Prospect Magazine, January 2007, 16-17
- “Entrepreneurship: Chips and Tips for On-line Government,” Review, Financial Times, 1999
- “Machine Politics is the Future,” New Statesman, 1997
- “Group therapy for a new generation,” Guardian, November 8, 1990

#### 6.4 Technical Reports

- “Sociality in the Distributed Office,” SRI Cambridge Computer Science Research Center, 1988
- “Computational Modeling: A Foundation for Re-engineering Management,” OASiS Research TR-1, 1991
- “A Standard for Process Performance Modeling in Design/OASiS(tm) with Adrian Johnson, OASiS Research TR-2, 1991
- “Object-Oriented Enhancements to IDEF,” with Adrian Johnson, OASiS Research TR-3, 1992
- “Documentation of the Business Re-engineering Design and Delivery Process,” with Adrian Johnson, OASiS Research TR-4, 1992
- “Analysis of OASiS QA, QC and Change Control Processes,” with Adrian Johnson, OASiS Research TR-5, 1992
- “A Seminar on Building a Business Process Encyclopaedia,” with Adrian Johnson, OASiS Research TR-7, 1993
- “Towards a Unied Design Process,” OASiS Research TR-8, 1993
- “Enterprise Work Architecture(tm),” with Nigel Vince et al, Sybase Business Consulting, 1995
- “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 Workow Management: Supporting Dynamic Organizational Processes, 2000

- “Practical Protocol Analysis for System Decomposition and Synthesis” ,  
Logic and Semantics Seminar, Cambridge University Computer Laboratory, 2001

## **7 Document Control**

C106.128.16IaBe122213CV