

## Curricula Vitae

**ERNEST ALAN EDMONDS** B.Sc., M.Sc., Ph.D., FBCS, FIET

Ernest Edmonds is an international expert on Human-Computer Interaction who specializes in creative technologies for creative uses. His record of achievement in the field of interdisciplinary research is long and distinguished particularly in fostering the development of HCI since 1970: in 1982, he founded the Human Computer Interface Research Centre (HCIRU) Leicester Polytechnic and later, in 1986, the Loughborough University Computer Human Research Centre (LUTCHI) Research Centre. In 2003, he established the Creativity and Cognition Studios (CCS) at the University of Technology, Sydney and continues to direct it in parallel with his directorship of the Institute of Creative Technologies (IOCT) in Leicester.

In 1993, he founded the ACM SIGCHI Creativity & Cognition conference series, a SIGCHI sponsored series since 1999, and continues to actively guide it through steering committee membership. He has been a member of the Steering Committee of the ACM SIGART/SIGCHI Intelligent User Interface Conferences since their inception and has twice been a Keynote Speaker. He is also well known for his pioneering use of computers in art and his archives are collected by Victoria and Albert Museum, as part of the National Archive of Computer-Based Art and Design.

He is Editor-in-Chief of the Transactions, the fast track, section of the MIT Press journal Leonardo and a Co-Editor of the journal. He is a member of the Editorial Board of Digital Creativity and Founding Editor of the international Elsevier journal Knowledge-Based Systems.

His publications include nearly 300 books and papers, including some of the first articles about iterative design, user interface architectures, adaptive user interfaces and the support of creativity.

### **Current Posts:**

Research Professor of Computation and Creative Media  
CCS, University of Technology, Sydney, Australia

Research Professor of Computational Art  
IOCT, De Montfort University, Leicester, UK

Email: [ernest@ernestedmonds.com](mailto:ernest@ernestedmonds.com)  
url: <http://www.ernestedmonds.com>

**Born:** London, 8. 4. 42.

**Nationality:** Dual Australian/British citizenship

**Degrees:**

B.Sc. (Hons.) Mathematics, Leicester. 1964.

M.Sc. Mathematics, Nottingham. 1967.

Ph.D. Mathematical Logic, Nottingham. 1973.

**Professional Qualifications**

Fellow of the British Computer Society.

Fellow of The Institution of Engineering and Technology.

**Previous posts:**

Research assistant, Leicester Polytechnic, UK 1967-1968

Lecturer/Head of Computer Studies section,  
Leicester Polytechnic 1968-1977

Reader in Computing, Leicester Polytechnic 1977-1982

Professor of Interactive Computing and Head of the Human-Computer  
Interface Research Unit, Leicester Polytechnic 1982-1985

Professor of Computer Studies and Executive Director of LUTCHI  
Research Centre, Loughborough University, UK 1985- 2002

Head of Department of Computer Studies, Loughborough University  
1985-1991

Dean of the School of Pure & Applied Science, Loughborough University  
1991-1994

**Invited presentations 1993 to present include:**

Plenary Presentation at the 1993 ACM International Workshop on  
Intelligent Interfaces, Orlando, USA, 1993.

Presentation at the 1993 AAAI fall symposium Human-Computer  
Collaboration: Reconciling Theory, Synthesizing Practice,  
Raleigh, NJ, USA, 1993.

Presentation at the BIS Conference, London, 1993.

Invited Participant, the New York International Festival of the Arts  
Seminar on the challenges and opportunities of new  
technologies for the arts, New York, 1993.

Presentation at the International Workshop: Cognition & Creation, Albi, France, 1995.

Presentation at the 3rd International Symmetry Congress, Washington, 1995.

Presented the 1995 Henry Cowan Public Lecture, University of Sydney, 1995.

Presentation at the International AI Symposium 95 Nagoya, Japan.

Presentation at OZCHI '95, Australia.

Keynote Speaker REDECS '96, Kuala Lumpur, Malaysia.

Presentation at FAUST 98, Toulouse, France.

Presentation at the University of Sydney - "30 Years of Design Computing at Sydney", December 1998.

Keynote Speaker, ACM International Conference, Intelligent User Interfaces, New Orleans, January 2000.

Presentation at 'Culture Castles', Video Positive, Liverpool, March 2000.

Presentation at Curators Forum, Duncan of Jordanstone College of Art, Dundee, June 2000.

Presentation at ATR, Kyoto, Japan, August 2000.

Presentation at Deakin University, Victoria, August 2000.

Presentation at Iwate Prefecture University, Japan, September 2000.

Presentation: Creating Cultures of Innovation, Metapod.expo, Birmingham, October 2000.

Keynote Speaker: 6th International Conference on Information Visualisation, London, July 2002.

Invited Participant, Dagstuhl Seminar on Aesthetic Computing, Germany, 2002.

Invited Participant, BEAP Electronic Arts Festival seminar on Digital Art Education, Perth, Australia, 2002.

Presentation at QUT Creative industries Research & Applications Centre, Brisbane, May 2003.

Invited workshop Chair at Second World Summit on the Arts and Culture, International Federation of Arts Councils and Culture Agencies, Singapore, November 2003.

Presentation of HAIL seminar at CSIRO, Sydney, March 2004.

Invited paper at SoMet\_04, Leipzig, September 2004

Presentation at JAIST Forum: Technology Creation Based on Knowledge Science: Presentation at Theory and Practice, Japan, November 2004

Invited Participant, NSF workshop on Creativity Support Tools, Washington DC, June 2005.

Projected Perception, Mitteleuropa Foundation, Bolzano, Italy, September 2005.

Keynote speaker at GRAPHITE, ACM Conference, Dunedin, NZ, December 2005.  
Invited Speaker, Becoming Information 2006, Bolzano, Italy, September 2006.  
Keynote Speaker, HCI2006: Engage! – The 20<sup>th</sup> BCS-HCI Group Conference, London, UK, September 2006.  
Invited Speaker, International Symposium of The New Trend of Asian Arts, Taiwan, October 2006.  
Keynote Speaker, Computational Aesthetics in Graphics, Visualization, and Imaging Conference, Lisbon, June 2008.  
Invited Speaker, SOMET'08, American University of Sharjah, UEA, October 2008.  
Keynote Speaker: Electronic Information, the Visual Arts and Beyond Conference, London, July 2009.  
Invited Participant: Dagstuhl Seminar, Computational Creativity: An Interdisciplinary Approach, July 2009.  
Keynote Speaker: Create10, Edinburgh, June-July 2010.  
Invited Speaker: GameHorizon 2013, Newcastle, UK, May 2013.

### **Selected committee experience:**

Chairman of Design Council Awards Judging Committee for Computer Products 1992-3.  
Chairman of the HCI Future Strategy Working Group of the Human Interface Club.  
Chairman, Creativity & Cognition 1993, 1996,1999 and 2002 (ACM conference from 1999).  
Chairman, Creativity & Cognition Steering Committee 1993-  
Co-Chair ACM Conference on Intelligent User Interfaces, 1997.  
Co-Chair CHI97 Workshop on Emergence  
Co-Chair International Workshop on Strategic Knowledge, 1997 and 1999.  
Co-Chair CHI2000 Workshop on Semiotics and Interface Design.  
Member, ATR Art & Technology Advisory Committee, Kyoto, Japan. 2001.  
Steering Committee Member, ACM Intelligent User Interface Conferences, 1997- 2006.  
Steering Committee Member, Metapod Project at Lighthouse. 2001-2  
Member of the Arts and Humanities Visual Art and Media Research Panel. 2000 - 2002  
Member of DTI's Technology Foresight Programme Committee: Creative Media sub-group of ITEC and Chair of its Access and Creativity Task Group. 1997-99

Member of the Cognitive Science/HCI Committee for the ESRC/MRC/SERC Joint Council Initiative.  
Member of Artificial Intelligence in Design '92 and '96 Programme Committees.  
Member of the Ordnance Survey Science & Technology Advisory Committee, 1991-4.  
Member of the Scientific Council of the Institut International Pour L'Intelligence Artificielle, Compiègne, France, 1991-4.  
Member of the Review Committee GMD Institute for Applied Information Technology, Sankt Augustin, Germany, 1993.  
Member of very many conference programme committees.  
Frequent external member of PhD examination and promotions committees.

## **Research Funding**

### **Selected funded projects (1998-):**

Our Content. The CRC ACID. \$162,000 2008  
Creative Collaboration (Project Leader across Universities). The CRC ACID. \$99,000 (\$91,043 for UTS) 2006-2008  
Creative Communities (Project Leader across Universities). The CRC ACID. \$249,855 (\$120,087 for UTS) 2006  
Absolute-5: an interactive artwork for the White Noise exhibition, Australian Centre for the Moving Image, \$20,000, 2005  
Collaborative Digital Art. CARTE Centre Westminster University, UK. - £18,000 over 3 years, 2004.  
The Computational Expression of Intention by Creative Users. 1.5M yen, Iwate University 2003.  
Arts and Technology On-line Journal - £3,000 for one year. From Arts Council of England 2001.  
Research relating to the Lye Method - £60,000 over three years, Iwate University 2001.  
Computer Support for Creative Work - £260,345 from EPSRC 2001 for two years  
The Psychology of Human Computer Interaction in Creative Work, £8,000 from EPSRC 2000 for one year  
Year of the Artist, support for residences of five artists in C&CRS, £10,500 from East Midlands Arts, 2000-2001.  
Media Centre Networks Meeting, £3,000. From Arts Council of England, 1999.  
Publishing and Research into Interdisciplinary Practice, £3000. From Arts Council of England, 1999.

Art and Technology Collaborations, £472,314 from HEFCE and Silicon Graphics Ltd, 1998.

The Psychology of Human-Computer Interaction in Creative Work by Visual Artists – Visiting Fellowship, £10,400 from EPSRC, 1998.

Mission: The Interaction of Art and Technology in Japan, £35000 from DTI, 1998.

Studies of Computer Support for Creativity Work: Artists and Technologists in Collaboration, £90,042 from EPSRC, 1998.

A Map of Public Access and Creativity Information Technology Initiatives, £3,000 from Arts Council of England, 1998.

*Previous to 1998, a total of more than £2,000,000*

### **Selected, non University, Collaborative Partners with whom I have held Contracts**

Powerhouse Museum

Australian Centre for the Moving Image

Silicon Graphics

Xerox

British Telecom

GEC

Dowty Rotol

ICL

Unilever

Solvay

NAG

Lotus Engineering

Universal Machines

British Aerospace

Aerospatiale

Daimler-Benz

SAAB

HP

### **Selected Exhibitions**

2015: Primary Codes, Oi! Futuro, Rio de Janeiro.

2014: Creative Machine, Goldsmiths College, London

2014: Automatic Art, GV Art Gallery, London

2014: Fields, National Museum of Art, Riga, Latvia

2014: A-EYE, Goldsmiths College, London

2014: Art Bar (February), Museum of Contemporary Art, Sydney

2013: PAF festival, Olomouc, Czech Republic.

2013: No Message whatsoever: Frieder Nike and Friends. DAM Gallery, Berlin.

2013: Intuition and Ingenuity, Bletchley Park, Bletchley, UK

2013: Summer Splash 2, DAM Gallery Berlin

2013: Light Logic (one person). Conny Dietzschold Gallery, Sydney

2012/3: New Acquisitions, Victoria and Albert Museum, London

2012/3: Light Logic (one person). Site Gallery, Sheffield, UK.

2012: Poetry, Language, Code. Ruskin Gallery, Cambridge, UK.

2012: Transformations: Digital Prints from the V&A collection, Great Western Hospital, Swindon, UK

2012: Intuition and Integrity. Kinetica, London; Lighthouse, Brighton; Lovebytes, Sheffield, UK

2012: Visualise SEE++, Cambridge, UK

2010: Chromatologies, Rotherham, UK

2010: Generative Film and Performance, Birkbeck Cinema, London.

2010: Grid Gallery, Vivid festival, Sydney

2010: Sensoria Festival, Sheffield UK (performance)

2009: C&C09 Berkeley Art Museum, CA (performance)

2009: When Ideas Become Form - 20 Years, Conny Dietzschold Gallery, Sydney

2009: Cities Tango, Conny Dietzschold Gallery, Sydney and ISEA, Belfast

2009: Image Ecologies, UTS, Sydney

2009: Cities Tango Beta\_Space, Sydney and Federation Square, Melbourne

2008: Cities Tango UrbanScreens Berlin and Federation Square, Melbourne

2007: Ernest Edmonds and Alf Loehr, Conny Dietzschold Gallery, Sydney

2007: Correspondences in Sound and Image (performance) Carriageworks, Sydney

2007: Speculative Data and the Creative Imaginary, National Academy of Sciences Gallery, Washington DC.

2007: ColorField Remix, WPA\C Experimental Media Series (performance), Corcoran Gallery of Art, Washington DC.

2006: Tango Tangle, Federation Square urban screen, Melbourne.

2006: Artificial Nature 1: Transcapes, UTS Gallery, Sydney

2005: White Noise, Australian Centre for the Moving Image, Melbourne

2005: Beta\_Space, Powerhouse Museum, Sydney

2005: Ernest Edmonds and David Thomas, Conny Dietzschold Gallery, Sydney

2005: Minimal Approach... Concrete Tendencies, Tin Sheds Gallery, University of Sydney

2004: Australian Concrete Constructive Art, Conny Dietzschold Gallery, Sydney  
 2004: SIGGRAPH Art Exhibition, Los Angeles  
 2004: GRAPHITE Art Exhibition, Singapore  
 2004: Sonar2004Festival, Barcelona  
 2004: Millenium Galleries, Sheffield, UK  
 2004: NEWART, AMP, Sydney  
 2003: SPARKS, UTS Sydney  
 2000: Global Echos. Mondriaanhuis, Amersfoort.  
 2000: Constructs & Reconstructions, Loughborough University (one-person)  
 2000: Relativities, Bankside Gallery, London, and tour  
 1999: Galerie Jean-Mark Laik, Koblenz  
 1999: Science in the Arts \_ Arts in Science, Hungarian Academy of Fine Arts, Budapest  
 1996: International Symposium, Creativity & Cognition II, Loughborough University  
 1994: Digital Arts, The Mall Gallery, London  
 1994: Friends of Mesures. Vervier and Antwerp  
 1993: International Symposium, Creativity & Cognition I, Loughborough University  
 1992: Computers in Music and Performance, British Computer Society, London  
 1991: Colour, Academie Industriële Vormgeving, Eindhoven \_ collaborative performance  
 1990: SISEA, Groningen \_ collaborative performance  
 1990: Avant Garde 1990, Manege, Moscow  
 1990: International Film and Video Festival, Leicester  
 1990: Art Creating Society. Museum of Modern Art, Oxford  
 1990: Heads and Legs. Liege (one-person) including a collaborative performance  
 1989: Constructivism versus Computer. Galerie FARO, World Trade Centre, Rotterdam  
 1989: Re-Views: Contemporary systematic and constructive arts. The Small Mansion Arts Centre, London  
 1988: Null-Dimension. Galerie New Space, Fulda (and 1989, Gmunden, Austria)  
 1985: Duality and Co-existence. Exhibiting Space, London (one-person)  
 1978: Drawing as Method, Description, Directive. Leicester Polytechnic.  
 1975: 2nd International Drawing Biennale. Middlesborough Art Gallery, Cleveland, and tour  
 1972: Cognition and Control. Midland Group Gallery, Nottingham



## Publications

**Editor-in-Chief** of Transactions in the journal *Leonardo*

**General Editor** of the Springer book series *Cultural Computing*.

**Member** of the editorial board of the journal *Digital Creativity*

**Founding Editor** of the international journal *Knowledge-Based System*

## Books Authored

Edmonds, Charles, Galer, Murray, Nicolle, Reid and Rousseau. *HCI tools & methods handbook*, DTI, London, 1991.

Candy, L. and Edmonds, E.A. *Explorations in Art and Technology*, Springer-Verlag, London, 2002.

Edmonds, E. A. *On New Constructs in Art*. Artists Bookworks, UK, 2005.

Edmonds, E. *Shaping Form*. Creativity & Cognition Press, Sydney, 2007.

## Books Edited

Edmonds, E.A (editor) *The Separable User Interface*. Academic Press, London, 1992.

Connolly, J.H. and Edmonds, E.A. (editors). *CSCW and Artificial Intelligence*, Springer Verlag, London, 1994.

Edmonds, E. A. and Stubbs, M. (editors) *White Noise*, ACMI, Melbourne, 2005.

Candy, L. and Edmonds, E. A. *Interacting: Art, research and the Creative Practitioner*. Libri Press, Oxford. 2011.

## Book Chapters

Edmonds, E. Adaptive Man-Computer Interfaces. In M. J. Coombs & J. L. Alty (Eds.), *Computing Skills and the User Interface* (pp. 389-426). London: Academic Press, 1981.

Candy, L., Edmonds, E., & Guest, S. User Interface Construction Software and the Computer-aided Acquisition of Basic English Skills. In *Interfaces in Computing 2* (pp. 69-80): Elsevier Sequoia, 1984.

Edmonds, E. Prospects for Computer Vision at the Workstation. In T. F. M. Stewart (Ed.), *Professional Workstations: State of the Art Report* (pp. 3-10): Pergamon Press, 1984.

- Edmonds, E., & Guest, S. The Unification of a Dialogue Manager and a Graphics System. In *User Interface Management Systems* (pp. 155-159): Springer Verlag, 1985.
- Johnson, S. R., Connolly, J. H., & Edmonds, E. A. Spectrogram Analysis : a Knowledge-based Approach to Automatic Speech Recognition. In M. A. Bramer (Ed.), *Research and Development in Expert Systems* (pp. 95-105). Cambridge, UK: Cambridge University Press, 1985.
- Edmonds, E., & Murray, B. S. Intelligent Presentation and Dialogue Management. In V. M. Stepanovka & R. Trappl (Eds.), *Advanced Topics in Artificial Intelligence* (pp. 465-476): Springer-Verlag, 1992.
- Edmonds, E. A. Knowledge-Based Systems for Creativity. In J. S. Gero & M.-L. Maher (Eds.), *Modelling Creativity and Knowledge-Based Creative Design*, 1992.
- Edmonds, E. A. and Newman "The Separable user interface: a conversation'. *The Separable User Interface*, Edmonds (editor), Academic Press, London, pp 347-363, 1992.
- Prat, A., Edmonds, E. A., Catot, J. M., Lores, J., Galmes, J., and Fletcher, P. "An architecture for knowledge-based statistical support systems". Hand (editor), *Artificial Intelligence Frontiers in Statistics: AI and Statistics*, Chapman & Hall, London, pp 39-45, 1993.
- Connolly, J. H., & Edmonds, E. A. Preface: CSCW and Artificial Intelligence. In J. H. Connolly & E. A. Edmonds (Eds.), *CSCW and Artificial Intelligence* (pp. v - ix). London: Springer Verlag, 1993.
- Edmonds, E. Cybernetic Serendipity Re-visited. In T. Dartnell (Ed.), *Artificial Intelligence and Creativity* (pp. 335-342). Amsterdam: Kluwer Academic, 1994.
- Edmonds, E. Introduction: Computer-based Systems that Support Creativity. In T. Dartnell (Ed.), *Artificial Intelligence and Creativity* (pp. 327-334): Kluwer Academic Publishers, 1994.
- Candy, L., Edmonds, E., Heggie, S. P., Murray, B. S., & Rousseau, N. P. A Strategy and Technology for Front End System Development. In Y. Anzai, K. Ogawa & H. Mori (Eds.), *Symbiosis of Human and Artifact*: Elsevier Science, 1995.
- Edmonds, E. A., Thoma, Cunningham and Jones, R. Interaction objects for explanation. In Varghese & Pflieger (Eds.), *Human Comfort and Security of Information Systems; Advanced Interfaces for the Information Society, Research Reports Esprit, Project Group HCI*. (Vol. 2, pp. 268-282): Springer-Verlag, 1997.
- Edmonds, E. White Noise: the Question of Economy. In E. Edmonds & M. Stubbs (Eds.), *White Noise* (Vol. Catalogue). Melbourne: Australian Centre for the Moving Image, 2005.

- Amitani, S., Edmonds, E. A. *Designing a System for Supporting the Process of Making a Video Sequence*, in *Transdisciplinary Digital Art: Sound, Vision and the New Screen*, Communication in Computer and Communication Science (CCIS), Springer, 2008.
- Edmonds, E. *Constructive Computation*. In P. Brown, C. Gere, N. Lambert & C. Mason (Eds.), *White Heat Cold Logic - British Computer Art 1960-1980*. London, UK: MIT Press, 2009.
- Edmonds, E. (2013) "Moving Between Poetry and Code". In Ferran, B. (ed) *Visualise: Making Art in Context*. Anglia Ruskin University, Cambridge, UK. pp 64-71.
- Edmonds, E. A. (2014) "Human Computer Interaction, Art and Experience". In Candy, L. and Ferguson, A. (editors) *Interactive Experience in the Digital Age: evaluating new art practice*. Springer, London. pp 11-23.
- Ximena, A., Askaroff, K., Candy, L., Edmonds, E. A., Faram, J. and Hobson, G. (2014) "Evaluation in Public Art: The Light Logic Exhibition". In Candy, L. and Ferguson, A. (editors) *Interactive Experience in the Digital Age: evaluating new art practice*. Springer, London. pp 187-208.

## Journal Papers

- Edmonds, E. A., "Independence of Rose's axioms for m-valued implication". *J.Symbolic Logic*, 34, pp 283-284, 1969
- Edmonds, E. A., "Communications Game". *Control Magazine*, 6, 1972
- Cornock, S. and Edmonds, E. A. "The creative process where the artist is amplified or superseded by the computer". *Leonardo*, 16, pp 11-16, 1973
- Edmonds, E. A., "Computer aided problem solving for untrained users". *J. Institute of Computer Sciences*, 5, pp 9-14, 1974
- Edmonds, E. A., "A process for the development of software for non-technical users as an adaptive system". *General Systems XIX*, pp 215-218, 1974.
- Edmonds, E. A., "Art systems for interactions between members of a small group of people" *Leonardo*, 8, pp 225-227, 1975
- Edmonds, E. A., "Where next in computer aided learning?" *Brit.J.Ed.Tech.*, pp 97-104, 1980
- Edmonds, E. A., "Lattice fuzzy logics". *Int.J.Man-Machine Studies*, 13, 4, pp 455-465, 1980
- Edmonds, E. A., "Domains of interest in fuzzy sets". *Int.J.Man-Machine Studies*, 15, 4, pp 461-468, 1981
- Edmonds, E. A., "The man-computer interface: a note on concepts and design". *Int.J.Man-Machine Studies*, 16, 3, pp 231-236, 1982

- Boreham, D. and Edmonds, E. A. "Extracting shapes from grey-scale images". *Int.J.Man-Machine Studies*, 16, 3, pp 315-326, 1982
- Candy, L. and Edmonds, E. A. "A study in the use of a computer as an aid to English teaching". *Int. J.Man-Machine Studies*, 16, 3, pp 333-340, 1982.
- Edmonds, E. A., Schappo, A. and Scrivener, S. A. R. "Image handling and two-dimensional design". *IEEE Computer Graphics and Applications* 2,5, pp 75-88, 1982.
- Edmonds, E. A., "Matching the user's model of the machine to the machine". *Proc. IEE Conf. Man-Machine Systems*, IEE Professional Publications, pp 72-75, 1982.
- Candy, L., Edmonds, E. A. and Guest, S. "User interface construction software and the computer acquisition of basic English skills". *Interfaces in Computing*, 2, pp 69-80, 1984.
- Edmonds, E. A., "Negative knowledge towards a strategy for asking in logic programming". *Int.J.Man-Machine Studies*, 24, 6, pp 597-60, 1986.
- Schappo, A. and Edmonds, E. A. "Support for tentative design: incorporating the screen image, as a graphical object, into PROLOG". *Int.J.Man-Machine Studies*, 24, 6, pp 601-611, 1986.
- Connolly, J. H., Guzy, J. J., Edmonds, E. A., Johnson S. R. and Woodcock, A. "Automatic speech recognition based on spectrogram reading". *Int. J. Man-Machine Studies*, 24, 6, pp. 611-621, 1986.
- Edmonds, E. A., "Expert systems and document handling". *Information Processing and Management*, 23, 2, pp 77-80, 1987.
- Edmonds, E. A., "Adaptability, response and knowledge". *Knowledge Based Systems*, 1,1, pp 3-10, 1987.
- Edmonds, E. A., "Logic and time-based art practice". *Leonardo, Electronic Art Supplemental issue*, Pergamon Press, Oxford, pp 19-20, 1988.
- Edmonds, E. A., Candy, L., Slatter and Lunn "Issues in the design of expert systems for business". *Expert Systems for Information Management*, 2, 1, pp 1-22, 1989.
- Edmonds, E. A., "Towards video constructs". *Measures Art International*, 3, pp 20-23, 1989.
- Edmonds, E. A., "Constructing with computers". *Art Monthly*, 129, pp 12-13, 1989.
- Edmonds, E. A., "Intelligent measurement and sensing systems: speech knowledge externalization". *Preprints Australasian Instrumentation & Measurement Conference: AIM'89*, Australian IEE, pp 22-25, 1989.
- Edmonds, E. A., "The emergence of the separable user interface". *ICL Technical Journal*, 7, 1, pp 54-65, 1990.

- Edmonds, E. A., "Human-computer interface evaluation: not user friendliness but design for operation". *Medical Informatics*, 15, 3, pp 253-260, 1990.
- Edmonds, E. A. and McDaid, E. "An architecture for knowledge-based front-ends". *Knowledge Based Systems*, 3, 4, pp 221-224, 1990.
- Edmonds, E. A., "Frameworks for knowledge-based systems". *Knowledge Based Systems*, 3, 4, pp 187-190, 1990.
- Lansdale, M. W. and Edmonds, E. A., "Using Memory for Events in the Design of Personal Filing Systems", *International Journal of Man-Machine Studies*, 36, 1992, pp 97-126, ISSN 00207373.
- Edmonds, E. A., "Culture, Knowledge and Creativity - Beyond Computable Numbers", *Languages of Design*, 1(3), 1993, pp 253-261, ISSN 0927-3034.
- Branki, N. E., Edmonds, E. A. and Jones, R. M., "A Study of Socially Shared Cognition in Design", *Environment and Planning B: Planning and Design*, 20, 1993, pp 295-306, ISSN 0265-8135.
- Edmonds, E. A., "Knowledge-based Co-operation", *Knowledge Based Systems*, 38(1), 1993, pp 1-2, ISSN 0950-7051.
- Candy, L., O'Brien, S. M. and Edmonds, E. A., "End-user Manipulation of a Knowledge-based System: A Study of an Expert's Practice", *International Journal of Man-Machine Studies*, 38(1), January 1993, pp 129-145, ISSN 0020-7373.
- Edmonds, E. A., O'Brien, S. M., Bayley, T. and McDaid, E., "Constructing End-user Knowledge Manipulation Systems", *International Journal of Man-Machine Studies*, 38(1), January 1993, pp 51-70, ISSN 0020-7373.
- Rousseau, N. P., Candy, L. and Edmonds, E. A., "Influence, Discretion and Time Available: A Case Study of HCI Practice in Software Development", *Interacting with Computers*, 5(4), 1993, pp 397-411, ISSN 0953-5438.
- Jones, R. M., Candy, L. and Edmonds, E. A., "Knowledge-based Systems Requirements", *Knowledge-Based Systems*, 6(1), March 1993, pp 31-37, ISSN 0950-7051.
- Jones, R. M., Edmonds, E. A. and Branki, N. E., "An Analysis of Media Integration for Spatial Planning Environments", *Environment and Planning B: Planning and Design*, 21, 1994, pp 121-133, ISSN 0265-8135.
- Candy, L. and Edmonds, E. A., "Artefacts and the Designer's Process: Implications for Computer Support to Design", *Journal of Design Sciences and Technology*, 3(1), 1994, pp 11-31, ISSN 1257-8703.
- McNeill, T. and Edmonds, E. A., "An Empirical Study of Conceptual Electronic Design", *Revue Sciences et Techniques de la Conception*, 3(1), 1994, pp 61-86 .

- Edmonds, E. A., "Creativity and Cognition", *Knowledge-Based Systems*, 7(4), 1994, pp 1-2, ISSN 0950-7051.
- Murray, B. S. and Edmonds, E. A., "Flexibility in Interface Development", *IEE Proceedings: Computers and Digital Techniques*, 141(2), March 1994, pp 93-98, ISSN 1350-2387.
- Edmonds, E. A., "Knowledge-based Systems: A New Perspective", *Knowledge Based Systems*, 7(1), March 1994, p 3, ISSN 0950-7051.
- Edmonds, E. A., Candy, L., Jones, R. M. and Soufi, B., "Support for Collaborative Design: Agents and Emergence", *Communications of the ACM*, 37(7), July 1994, pp 41-47, ISSN 0001-0782.
- Edmonds, E. A., "Creativity and Cognition", *Leonardo*, 28(3), 1995, PP 165-166.
- Jones, R. M. and Edmonds, E. A., "Supporting Collaborative Design in a Seamless Environment", *Concurrent Engineering: Research and Applications*, 3(3), 1995, pp 203-212, ISSN 1063-293X.
- Candy, L. and Edmonds, E. A., "The Twin Paths of Research and Design: Reformulating the Computer System Development Process", *Journal of Design Sciences and Technology*, 4(1), 1995, pp 57-72, ISSN 1257-8703.
- Edmonds, R. and Edmonds, E. A., "Remarks on the Problem of Emergent Objects in Relation to Object-Oriented Computer Systems", *Journal of Design Sciences and Technology*, 4(1), 1995, pp 73-78.
- Candy, L. and Edmonds, E. A., "Creative Design of the Lotus Bicycle: Implications for Knowledge Support Systems Research", *Design Studies*, 17(1), 1996, pp 71-90, ISSN 0142-694X.
- Soufi, B. and Edmonds, E.A., "The Cognitive Basis of Emergence: Implications for Design Support", *Design Studies*, 17(4), 1996, pp 451-463, ISSN 0142-694X.
- Pollitzer, E. and Edmonds, E.A., "Editorial: the evolving partnership between cognitive science and HCI", *International Journal of Human-Computer Studies*, 44(6), 1996, pp 731-741, ISSN 1071-5819.
- Edmonds, E.A. and Candy, L., "Computer Support for Concept Engineering Design: Enabling Interaction with Design Knowledge", *Journal of Systems Engineering and Electronics*, 7(2), 1996, pp 55-71, ISSN 1004-4132.
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