

CV – Professor Leon Sterling

Education

BSc (Hons) (Mathematics and Computer Science), University of Melbourne, 1976

PhD (Mathematics), Australian National University, 1981

Graduate, Australian Institute of Company Directors, 2012

Academic Positions

- ❖ Emeritus Professor, Swinburne University of Technology, 2015 - current
- ❖ Chair, Academic Board, Edvantage Institute Australia, 2019 - current
- ❖ Professor of Software Engineering (Teaching Specialist), University of Melbourne, 2019-2021
- ❖ Pro Vice-Chancellor (Digital Frontiers), Swinburne Univ. of Technology, 2014 - 2015
- ❖ Dean, Faculty of Information and Communication Technologies, Swinburne University of Technology, 2010 - 2013
- ❖ Director of eResearch, University of Melbourne, June 2007 – December, 2010
- ❖ Chair of Software Innovation and Engineering, University of Melbourne, 2002-2010
- ❖ Head, Department of Computer Science and Software Engineering, University of Melbourne, 1996-2002
- ❖ Professor of Computer Science, University of Melbourne, 1995-2002
- ❖ Director, Center for Automation and Intelligent Systems Research, Case Western Reserve University, Cleveland, OH, USA, 1989-1991
- ❖ Faculty member, Department of Computer Engineering and Science, Case Western Reserve University, Cleveland, OH, USA, 1985-1995 (Joined as Assistant Professor (1985), promoted to Associate Professor (1989) and Full Professor (1993))
- ❖ Dov Biegun Postdoctoral Fellow, Department of Computer Science, Weizmann Institute of Science, Rehovot, Israel, 1983-1985
- ❖ Research Fellow, Department of Artificial Intelligence, University of Edinburgh, Edinburgh, Scotland, 1980-1983

Fellowships

Fellow, Engineers Australia, 1999-present

Fellow, Australian Computer Society 2001-present

Dozor Fellow, Ben Gurion University, Israel, Dec. 2000-Jan. 2001

Paul Callaghan Visiting Professorial Fellow,

Victoria University, Wellington, New Zealand, 2015-2017

Awards

John Hughes Distinguished Service Award, CORE, Computing Research & Education Australia, 2015

Key Professional Activities

Australian Council of Deans of ICT (ACDICT)

Treasurer, 2010 – 2011

Vice-President, 2011 – 2012

President, 2012-2014,

Past President, 2014-2015

(Examples of policies and engagement while ACDICT President are listed on

<http://www.acdict.edu.au/documents.htm>)

Computing Research and Education (CORE)

President, 2001-2005

Exec member 2001-2009

(Responsible for merging the Computer Science Association and the Heads and Professors of Computer Science into a more effective organization)

Australian Mathematics Trust

Board Member, 2008 – present, Deputy Chair, 2019 - current

Chair, Australian Informatics Olympiad Committee, 2008 - 2017

(Advocate for including informatics/algorithmics in the Maths Curriculum)

iAwards and AIIA

Category Judge for student domain comprising school, undergraduate and post-graduate students, 2014-present

Judges Council member, 2014-present

Club Melbourne Ambassador, 2010-present

Hosted two breakfast meetings on 'Impediments to introducing Technology for Aged Care' and 'Platforms for Collaboration'

Helped bring ACL 2017 to Melbourne

Australian Research Council

Member, College of Experts, 2012-2014

Chair, REC MIC Panel for ERA 2015

Collaboration with ACER (Australian Council for Educational Research)

Invited speaker, ACER Annual conference, 2016

Member of STEM Video Games committee, 2014-2017

Participant, Principal for a Day, 2015-2017

Pearcey Institute (<https://pearcey.org.au/pearcey-institute/>)

Director, 2018-present, Academic Advisor, 2015-2017

Smart Services Cooperative Research Centre

Board member, 2013-2015

SeniorPreneurs Foundation (<http://seniorpreneurs.org.au/>)

Responsible for hosting in early days at Swinburne in 2014-2015
Chair, Advisory Committee, 2015 – 2016
Board member, 2016-present

Victorian Partnership for Advanced Computing (VPAC)

Board member, 2008-2011 Member, Audit and Risk Committee, 2011

Software Engineering Australia (Vic.)

Board member, 1998-2000

Australia and New Zealand College of Anaesthetists

ICT Governance Committee, 2016 -present

Technical Advisor for Startup Companies

Cashtivity, 2013 – present (<http://www.cashtivity.com/>)

Platform originally for teaching business literacy for school students, which has pivoted for teaching maths through real world applications

Cuuble, 2015 – present (www.cuuble.com)

A self-managed software technology and networking platform created for families and communities to own, brand, operate and connect and care for each other

Discovering without Borders, 2015 – present (www.d-w-b.org)

*A social enterprise to allow children of all abilities equal opportunity and access to learn **STEM** subjects in a hands on interactive way*

August Robotics, 2016 – present (<http://www.augustrobotics.com/>)

Startup Robotics company

Inteconnekt, 2017 – present (<http://interconnekt.com.au/>)

Networking SME

TelUs, 2014- 2015 (<https://www.meetup.com/Startuphealthtech/messages/boards/thread/48715375>)

TelUs was to provide tech support for older adults by older adults especially for health tech. It was disbanded and was absorbed into Seniorpreneurs activities.

Publications

<https://orcid.org/0000-0002-4122-2465>

Books

Sterling, L. and Taveter, K. *The Art of Agent-Oriented Modeling*, MIT Press, 2009

Sterling, L. and Shapiro, E. *The Art of Prolog: Advanced Programming Techniques*, 2nd edition, MIT Press, 1994

Sterling, L. and Shapiro, E. *The Art of Prolog: Advanced Programming Techniques*, MIT Press, 1986

Edited Collections

Klusch, M., Hindrichs, K., Papazoglu, M. and Sterling, L. (eds.) *Cooperative Information Agents*, CIA2007, Springer LNAI 4676, Springer-Verlag, 2007

Sterling, L. (ed.) *Intelligent Systems - Concepts and Applications*, Plenum Press, 1993

Sterling, L. (ed.) *The Practice of Prolog*, MIT Press, 1990

Journals

Wachtler, C., Coe, A., Davidson, S., Fletcher, S., Mendoza, A., Sterling, L., Gunn, J., Development of a Mobile Clinical Prediction Tool to Estimate Future Depression Severity and Guide Treatment in Primary Care: A User Centered Design, *JMIR MHealth and UHealth*, 2018 Apr 23;6(4):e95. doi:10.2196/mhealth.9502

Felip Martí Carrillo, Joanna Butchart, Sarah Knight, Adam Scheinberg, Lisa Wise, Leon Sterling, and Chris McCarthy. 2018. Adapting a General-Purpose Social Robot for Paediatric Rehabilitation through In Situ Design. *ACM Trans. Human-Robot Interaction* 7, 1, Article 12 (May 2018), 30 pages. DOI: <https://doi.org/10.1145/3203304>

Pedell, S., Keirnan, A., Priday, G., and Sterling, L. Methods for Supporting Older Users in Communicating Their Emotions at Different Phases of a Living Lab Project. *Technology Innovation Management* 7 (2) 7-19, 2017

Thomas Neil, Farhall John, Foley Fiona, Rossell Susan, Castle David, Ladd Emma, Meyer Denny, Mihalopoulos Cathrine, Leitan Nuwan, Nunan Cassy, Frankish Rosalie, Smark Tara, Farnan Sue, McLeod Bronte, Sterling Leon, Murray Greg, Fossey Ellie, Brophy Lisa, Kyrios Michael, Randomised controlled trial of a digitally assisted low intensity intervention to promote personal recovery in persisting psychosis: SMART-Therapy study protocol *Journal: BMC Psychiatry* 2016, 16:312

Thomas, N., Farhall, J., Foley, F., Leitan, N. D., Villagonzalo, K.-A., Ladd, E., Nunan, C., Farnan, S., Frankish, R., Smark, T., Rossell, S., Sterling, L., Murray, G., and Kyrios, M. (2016). Promoting Personal Recovery in People with Persisting Psychotic Disorders: Development and Pilot Study of a Novel Digital Intervention. *Frontiers in Psychiatry*, 7, 196. <http://doi.org/10.3389/fpsy.2016.00196>

- Miller, T, Pedell, S., Lopez-Lorca, A, Mendoza, A, Sterling, L, and Keirnan, A. Emotionally-driven models for people-oriented requirements engineering: the case study of emergency systems, *Journal of Systems & Software*, Vol, 105, pp. 54-71, 2015
- Kissoon Curumsing, M., Lopez-Lorca, A., Miller, T., Sterling, L., and Vasa, R., Viewpoint modelling with emotions: A case study, *International Journal People Oriented Programming*, 4(2), pp. 25-53, 2015
- Goschnick, S., Sterling, L., and Sonenberg, L., Modelling Human Activity in People-Oriented Programming with Metamodels, *International Journal People Oriented Programming*, 4(1), pp. 1-24, 2015
- Miller, Tim; Lu, Bin; Sterling, Leon; Beydoun, Ghassan; Taveter, Kuldar, Requirements elicitation and specification using the agent paradigm: the case study of an aircraft turnaround simulator. *IEEE Transactions on Software Engineering*. Vol. 40, no. 10, pp. 1007-1024, 2014
- Pedell, S., Miller, T., Sterling, L., Vetere, F. and Howard, S., Tools for participation: inter-generational technology design for the home, *International Journal of Design*, Vol. 8, no. 2, pp. 1-14, 2014
- Miller, T., Pedell, S., Sterling, L., Vetere, F., and Howard, S., Understanding socially oriented roles and goals through motivational modelling, *Journal of Systems and Software*, 85(9); 2160-2170, 2012
- Paay, J., Pedell, S., Sterling, L., Vetere, F., and Howard, S. The Benefit of Ambiguity in Understanding Goals in Requirements Modelling, *International Journal of People-Oriented Programming (IJPOP)* 1 (2), 24-49, 2011
- Paay, J., Sterling, L., Vetere, F., Howard, S. and Boettcher, A. Engineering the social: The role of shared artifacts, *International Journal of Human-Computing Studies*, 67(5), pp. 437-454, 2009
- Ben-David, A., Sterling, L., and Tran, T.D. Adding Monotonicity to Learning Algorithms may impair their Accuracy, *Expert Systems with Applications*, 36(3), pp. 6627-6634, 2009
- Oluyomi, A., Karunasekera, S., and Sterling, L. Description Templates for Agent-Oriented Patterns, *Journal of Systems and Software*, 81, pp. 20-36, 2008
- Antoniou, G., Sterling, L., Gritzalis, S., Parampalli, U. Privacy and forensics investigation process: The ERPINA protocol, *Computer Standards & Interfaces Journal*, 30(4), pp. 229-236, 2008
- Keogh, K., Sterling, L., and Venables, A. A Scalable and Portable Structure for Conducting Successful Year-long Undergraduate Software Team Projects, *Journal of Information Technology Education*, 6(1), pp. 515-540, 2007
- Oluyomi, A., Karunasekera, S., and Sterling, L. A Comprehensive View of Agent-Oriented Patterns, *Journal of Autonomous Agents and Multi-Agent Systems*, 15(3), pp. 337-377, 2007
- Ronald, N., Sterling, L. and Kirley, M. An Agent-Based Approach to Modelling Pedestrian Behaviour, *International Journal of Simulation: Systems, Science & Technology, Special issue on IT-Based Modelling in Logistics*, 8(1), pp. 25-38, 2007
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- Rahwan, I., Juan, T. and Sterling, L. Integrating Social Modelling with Agent Interaction through Goal-Oriented Analysis, *Journal of Computer Systems Science and Engineering*, special issue; Software Engineering for Multi-Agent Systems, 21(2), 2006, pp. 87-98
- Ben-David, A. and Sterling, L. Generating Rules from Examples of Human Multiattribute Decision Making Should Be Simple, in *Expert Systems With Applications*, 31(2), August 2006, pp. 390-396
- Mascardi, V., Martelli, M. and Sterling, L. Logic Based Specification Languages for Intelligent Software Agents, *Theory and Practice of Logic Programming*, 4(4), July 2004, pp. 429-494
- Araban, S. and Sterling, L. Quality of Service for Web Services, *WSEAS Transaction on Computers*, 4(3), 2004, pp. 1136-1141
- Sterling, L., Naish, L. and Hermenegildo, M. Editorial on 'Logic programming and the Internet' in *Theory and Practice of Logic Programming*, 1(3), 2001, pp. 249-250
- Naish, L. and Sterling, L. Stepwise Enhancement and Higher Order programming in Prolog, *Journal Functional and Logic Programming*, (4), MIT Press (electronic journal), 2000, pp 1-30
- Kazmierczak, E., Dart, P., Sterling, L. and Winikoff, M. Verifying Requirements through Mathematical Modelling and Animation in *International Journal of Software Engineering and Knowledge Engineering*, 10(2), 2000, pp. 251-273
- Marling, C., Petot, G. and Sterling, L. Integrating Case-Based and Rule-Based Reasoning to Meet Multiple Design Constraints in *Computational Intelligence*, 15(3), 1999, pp. 308-332
- Loke, S., Sterling, L. and Sonenberg, E. A Knowledge-Based Approach to Domain-Specialized Information Agents in *Journal of Internet Research*, 9(2), 1999, pp. 140-152
- Schmidt, C., Dart, P., Johnston, L., Sterling, L. and Thorne, P. Disincentives for Communicating Risk: A Risk Paradox in *Information And Software Technology*, 41(7), 1999, pp. 403-411
- Osborn, J. and Sterling, L. Automated Concept Identification within Legal Cases, in *Journal of Information, Law and Technology (JILT)*, 1, 1999
(<http://www2.warwick.ac.uk/fac/soc/law/elj/jilt/1999-1/osborn>)
- Petot, G., Marling, C. and Sterling, L. An Artificial Intelligence System for Computer-Assisted Menu Planning in *Journal of the American Dietetic Association*, 98(9), 1998, pp. 1009-1014
- Quinn, R., Causey, G., Merat, F., Sargent, D., Barendt, N., Newman, W., Velasco, D., Podgurski, A., Jo, J., Sterling, L., and Kim, Y. An Agile Manufacturing Workcell Design in *IIE Transactions* (Focussed Issue on Agile Manufacturing), 29, 1997, pp. 901-909
- Sterling, L. and Yalçinalp, L.Ü. Logic Programming and Software Engineering Implications for Software Design, *Knowledge Engineering Review*, 11, 1996, pp. 1-13
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- Sterling, L., Petot, G., Marling, C., Kovacic, K. and Ernst, G. The Role of Common Sense Knowledge in Menu Planning in *Expert Systems with Applications*, 11(3), 1996, pp. 301-308
- Sterling, L., Ciancarini, P. and Turnidge, T. On the Animation of 'not executable' Specifications by Prolog in *International Journal of Software Engineering and Knowledge Engineering*, 6, 1996, pp. 63-87
- Ciancarini, P. and Sterling, L. Report on the Workshop: Applications of Logic Programming in Software Engineering, Italy, June 1994, in *Knowledge Engineering Review*, 10(1), 1995, pp 97-100
- Renard, F., Sterling, L. and Brosilow, C. Knowledge Verification in Expert Systems Combining Declarative and Procedural Representations, in *Computers and Chemical Engineering*, 17, 1993, pp. 1067-1090
- Schwartz, D. and Sterling, L. Using a Prolog Meta-Programming Approach for a Blackboard Application in *Applied Computing Review*, 1, 1993, pp. 27-34
- Kirschenbaum, M., Sterling, L. and Jain, A. Relating Logic Programs via Program Maps in *Annals of Mathematics and Artificial Intelligence*, 8, 1993, pp. 229-245
- Beer, R., Chiel, H.J. and Sterling, L. An Artificial Insect in *American Scientist*, 79, 1991, pp. 444-452
- Ben-David, A. and Sterling, L. Symbolic and Numeric Knowledge Integration in Multiple Fault Troubleshooting in *Expert Systems with Applications*, 2(4), 1991, pp. 353-359
- Yalçinalp, L.Ü. and Sterling, L. DIagnosing Jaundice Expert SysTEM in *Computer Math. with Applications*, 20, 1990, pp. 125-140
- Lakhotia, A. and Sterling, L. How to Control Unfolding when Specializing Interpreters in *New Generation Computing*, 8, 1990, pp. 61-70
- Sterling, L. and Nygate, Y. PYTHON: An Expert Squeezer in *Journal of Logic Programming*, 8, 1990, pp. 21-40
- Bansal, A. and Sterling, L. An Abstract Interpretation Scheme for Identifying Inherent Parallelism of Logic Programs in *New Generation Computing*, 7, 1990, pp. 273-324
- Beer, R.D., Chiel, H.J. and Sterling, L. A Biological Perspective on Autonomous Agent Design in *Journal of Robotics and Autonomous Systems*, 6, 1990, pp. 169-186
- Bansal, A. and Sterling, L. Classifying Generate-and-Test Logic Programs in *International Journal of Parallel Processing*, 8(4), 1989, pp. 401-446
- Sterling, L. and Beer, R.D. Meta-Interpreters for Expert System Construction in *Journal of Logic Programming*, 6(1-2), 1989, pp. 163-178
- BenDavid, A., Sterling L. and Pao, Y.H. Learning and Classification of Monotonic Ordinal Concepts in *Computational Intelligence*, 5 (1), 1989, pp. 45-49
- Sterling, L., Bundy, A., Byrd, L., O'Keefe, R., and Silver, B. Solving Symbolic Equations with PRESS in *Journal of Symbolic Computation*, 7, 1989, pp. 71-84
- Lakhotia, A. and Sterling, L. Composing Recursive Logic Programs with Clausal Join in *New Generation Computing*, 6(2), 1988, pp. 211-225
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- Bundy, A. and Sterling, L. Meta-Level Inference: Two Applications in *Journal of Automated Reasoning*, 4, 1988, pp. 17-27
- Fateman, R., Bundy, A., O'Keefe, R. and Sterling, L. Commentary on: Solving Symbolic Equations with PRESS, SIGSAM Bulletin, 1988
- Sterling, L. and Codish, M. PRESSing for Parallelism: A Prolog Program Made Concurrent in *Journal of Logic Programming*, 3, 1986, pp. 75-92
- Sterling, L. and Lalee, M. An Explanation Shell for Expert Systems in *Computational Intelligence*, 2, 1986, pp. 136-141
- Sterling, L. Logical Levels of Problem Solving in *Journal of Logic Programming*, 1, 1984, pp. 138-145
- Grunewald, F., Siegel, D. and Sterling, L. Nilpotent Groups of Hirsch Length 6 in *Math Z.*, 179, 1982, pp. 219-235
- Sterling, L. Computing Invariants for Finitely Presented Nilpotent Groups in *Bull. Austral. Math. Society*, 24, 1981, pp. 317-318
- Havas, G., Richardson, J.S. and Sterling, L. The Last of the Fibonacci Groups in *Proceedings of the Royal Soc. Edinburgh*, 83A, 1979, pp. 199-203
- Sterling, L. and Wormald, N. A Remark on the Construction of Designs for Two-way Elimination of Heterogeneity in *Bull. Austral. Math. Society*, 14, 1976, pp. 383-388

Edited Journal Special Issues

- Goschnick, S. and Sterling, L. (Eds): International Journal People Oriented Programming, Special Issue on Kids and Other Novices Learning to Code: Insights, Tools and Lessons from the Visual Programming Frontline, 4(1), 2015
- Sterling, L., Miller, T. and Lopez-Lorca, A. (Eds): International Journal People Oriented Programming, Special Issue Emotions and People-Oriented Programming, 3(1), 2014
- Dix, J., Fisher, M., Levesque, H. and Sterling, L. Guest Editor's Introduction, Logic-based Agent Implementation, *Annals of Mathematics and Artificial Intelligence*, 41(2-4), August 2004, pp. 131-133
- Sterling, L., Naish, L. and Hermenegildo, M. (eds.), Applications of Logic Programming to the Internet, Theory and Practice of Logic Programming, 2001
- Sterling, L. (ed.), Applications of Logic Programming, Journal of Logic Programming, 1996
- Ciancarini, P. and Sterling, L. Applications of Logic Programming in Software Engineering, International Journal of Software Engineering & Knowledge Engineering, 6(1), 1996
- Sterling, L. (ed.), Practical Applications of Prolog, Applied Computing Review, 2(2), 1994
- Sterling, L. (ed.), Applications of Logic Programming, Journal of Logic Programming, 8, 1990
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Edited Proceedings

- Klusch, M., Hindrichs, K., Papazoglu, M. and Sterling, L. (eds.) Cooperative Information Agents, CIA2007, Springer LNAI 4676, Springer-Verlag, 2007
- Leite, J., Ominici, A., Sterling, L. and Torroni, P. (eds.) Declarative Agent Languages and Technologies, Papers from the First Intl. Workshop, DALT 2003, Springer LNAI 2990, Springer Verlag, 2004-.
- Grant, D. and Sterling, L. (eds.) ASWEC-2001, Australian Software Engineering Conference, Canberra, 2001.
- Sterling, L. (ed.) Twelfth International Conference on Logic Programming, MIT Press, Japan, June, 1995.
- Sterling, L. (ed.) Second International Conference on Practical Applications of Prolog, London, April, 1994.
- Adams, A. and Sterling, L. (eds.) AI-92, World Scientific Press, 1992

Book Chapters

- Sterling, L., Burrows, R., Barnet, B., Taffe, S., McDonald, R., Emotional Factors for Teleaudiology, in Saunders, E., (Ed) Tele-Audiology and the Optimization of Hearing Healthcare Delivery, IGI Global, appearing, January 2019
- Sterling, L. Incorporating End-users' Emotion and Satisfaction, in Chapter 10, Arvind K. Bansal, Javed I. Khan and Kaiser Alam (eds.), *Computational Health Informatics*, First edition, Publisher: CRC Press / Taylor and Francis, Boca Raton, Florida, USA, ISBN: 978-1-4987-5663-1, forthcoming 2019
- Sterling, L., Lopez-Lorca, A. and Kissoon-Curumsing, M. (2018). Adding Emotions to Models in a Viewpoint Modelling Framework from Agent-Oriented Software Engineering: A Case Study with Emergency Alarms, in S. Goschnick (Ed.), *Innovative Methods, User-Friendly Tools, Coding, and Design Approaches in People-Oriented Programming*. Hershey, PA: Information Science Publishing, pp. 324-367
- Paay, J., Sterling, L., Pedell, S., Vetere, F. and Howard, S. (2018). Interdisciplinary Design Teams Translating Ethnographic Field Data into Design Models: Communicating Ambiguous Concepts using Quality Goals, in S. Goschnick (Ed.), *Innovative Methods, User-Friendly Tools, Coding, and Design Approaches in People-Oriented Programming*. Hershey, PA: Information Science Publishing, pp. 226-261
- Pedell, S., Lopez-Lorca, A., Miller, T., and Sterling, L., Don't leave me untouched: Considering emotions in personal alarm use and development, in Healthcare Informatics and Analytics: Emerging Issues and Trends, Tavana, Ghapanchi and Talaei-Khoei (eds), Chapter 6, pp. 96-127, IGI Global, 2014
- Sterling, L. Why Study Information Technology, in Information Technology and Systems for the Curious: Why Study Information Technology and Systems?, (K, Vaidya,ed.), Amazon Press, 2014
- S. Pedell, T. Miller, F. Vetere, L. Sterling, and S. Howard. Socially-oriented requirements
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engineering — software engineering meets ethnography. In *Perspectives on culture and agent-based simulations* / Virginia Dignum and Frank Dignum (eds.), Chapter 11, pp. 191-210, Springer, 2014

Lister, K. and Sterling, L. Integrating a Lightweight Information Agent with the Cyc Knowledge Base, in Dershowitz, N. and Nissan, E. (eds.) *Language, Culture, Computation: Essays Dedicated to Yaacov Choueka*, Lecture Notes in Computer Science, Vol. 8001, pp. 225-251, Springer-Verlag, Berlin, 2014

Keane, T. and Sterling, L., Providing a healthy digital environment, aligning policy with teacher, student and parent expectations, in *From cyber bullying to cyber safety: issues and approaches in educational contexts* / Ria Hanewald (ed.), Chapter 3, Nova Science Publishers, 2013.

Lopez-Lorca, A., Beydoun, G., Sterling, L. and Miller, T., An ontology-mediated validation process of software models, in *Information systems development: business systems and services: modeling and development* / Jaroslav Pokorny, Vaclav Repa, Karel Richta, Wita Wojtkowski, Henry Linger, Chris Barry and Michael Lang (eds.), pp. 455-467, Springer, 2011

Sterling, L. Applying agents within knowledge management, in David G. Schwartz and Dov Te'eni (eds.) *Encyclopedia of knowledge management*, second edition, vol. 1, chapter 2, pp. 12-19, 2011

Sterling, L. and Taveter, K. A Logic Programming Perspective on Rules, in Adrian Giurca, Dragan Gasevic and Kuldar Taveter (eds.), *Handbook of research on emerging rule-based languages and technologies: open solutions and approaches*, Chapter 9, pp. 195-213, 2009

Taveter, K. and Sterling, L. Agent-Oriented Software Engineering in Khosrow-Pour, M. (ed.) *Encyclopedia of Information Science and Technology*, 2nd Edition, IGI Global, 2008

Perugini, D., Lambert, D., Sterling, L. and Pearce, A. Provisional Agreement Protocol for Global Transportation Scheduling. Klugl, F., Bazzan, A., Ossowski, S (eds), In: *Applications of agent technology in traffic and transportation*, pp. 17-32

Annamalai, M. and Sterling, L. Dealing With Mathematical Relations in Web-Ontologies in Tamma, V., Cranefield, S., Finin, T. and Willmott, S. (eds.) *Ontologies for Agents: Theory and Experiences*, Birkhäuser, 2005, pp. 201-232

Lister, K., Hristozova, M. and Sterling, L. Reconciling Implicit and Evolving Ontologies for Semantic Interoperability in Tamma, V., Cranefield, S., Finin, T., Willmott, S. (eds.), *Ontologies for Agents: Theory and Experiences*, Birkhäuser, 2005, pp. 121-144

Sterling, L. Applying Agents for Knowledge Management, in Schwartz, D. (ed.), *Encyclopedia of Knowledge Management*, Idea Group Reference, Hershey PA, 2005, pp. 368-372

Oluyomi, A. and Sterling, L. A Dedicated Approach for Developing Agent Interaction Protocols, *Intelligent Agents and Multi-Agent Systems 2004*, Springer-Verlag, 2005, LNAI volume 3371, pp. 162-177

- Goss, S., Heinze, C., Papasimeon, M., Pearce, A. and Sterling, L. Towards Reuse in Agent Oriented Information Systems: The Importance of Being Purposive, in Giorgini, P. and Winikoff, M. (eds) Agent-Oriented Information Systems, Springer-Lecture Notes in CS Vol. 3030, pp. 111-126, 2004 (revised paper)
- Cernuzzi, L., Juan, T., Sterling, L. and Zambonelli, F. The GAIA Methodology: Basic Concepts and Extensions, in Bergenti, F., Gleizes, M., and Zambonelli, F. (eds.) Methodologies and Software Engineering for Agent Systems: The Agent-Oriented Software Engineering Handbook, Kluwer, July 2004 , pp. 69 – 88
- Juan, T., Sterling, L., and Winikoff, M. Assembling AOSE Methodologies from Features, in F. Giunchiglia, J. Odell, and G. Weiss (eds.) Agent-oriented software engineering III, LNCS Vol. 2585, Springer-Verlag, 2003
- Sterling, L. Patterns for Prolog programming, in Kakas, A.C. and Sadri, F (eds.) Computational Logic: Logic Programming and Beyond, Springer LNAI 2407, Springer-Verlag, Berlin, 2002, pp. 374-401
- Gao, X. and Sterling, L. Semi-structured Data Extraction from Heterogeneous Sources, in Schwartz, D., Divitini, M., Bratjevik, T. Internet-based Knowledge Management and Organizational Memories, Idea Group Publishing, 2000, pp. 83-102
- Gao, X. and Sterling, L. AutoWrapper: Automatic Wrapper Generation for Multiple Online Services, in Young, G. (ed.) World Wide Web: Technologies and Applications for the New Millenium, CSREA Press, 2000, pp. 61-70
- Gao, X. and Sterling, L. A methodology for building information agents, in Yang, Y., Li, M. and Ellis, A. (eds.) Web Technologies and Applications, International Academic Publishers, 1998, Chapter 5, pp. 43-52
- Sterling, L. and Srinivasan, V. A Generic Scheduling Framework developed in Prolog, in Beierle, C. and Plümer, L. (eds.) Logic Programming: Formal Methods and Practical Applications, North-Holland, pp. 301-322, 1995
- Radack, G. and Sterling, L. Reasoning About Symbolic Descriptions of Mechanical Parts, in Dagli, C. and Kusiak, A. (eds.) Intelligent Systems in Design and Manufacturing, ASME Press, 1994, pp. 139-169
- Kirschenbaum, M. and Sterling, L. Applying Techniques to Skeletons, in Jacquet, J.M.J. (ed.) Constructing Logic Programs, Wiley & Sons, 1993, pp. 127-140
- Sterling, L. Of Using Constraint Logic Programming for Design of Mechanical Parts, in Sterling, L. (ed.) Intelligent Systems - Concepts and Applications, Plenum Press, 1993, pp. 107-116
- Sterling, L., Beer, R.D. and Chiel, H.J. Beyond the Symbolic Paradigm, in Flach, P. and Meersman, R.A. (eds.) Future Directions for Artificial Intelligence, North Holland, 1991, pp. 71-79
- Beer, R.D., Chiel, H.J. and Sterling, L. A Biological Perspective on Autonomous Agent Design, in Maes, P. (ed.) Designing Autonomous Agents, MIT Press, 1991, pp 169-186
- Lakhotia, A. and Sterling, L. ProMiX: A Prolog Partial Evaluation System, in Sterling, L. (ed.) The Practice of Prolog, MIT Press, 1990, pp. 137-179
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- Beer, R.D., Chiel, H.J. and Sterling, L. Heterogeneous Neural Networks for Adaptive Behavior in Dynamic Environments, in Touretzky, D. (ed.) *Advances in Neural Information Processing Systems I*, Morgan Kaufmann, 1989, pp. 575-585
- Yalçinalp, L.Ü. and Sterling, L. An Integrated Interpreter for Explaining Prolog's Successes and Failures, in Abramson, H. and Rogers, M. (eds.) *Meta-Programming in Logic Programming*, MIT Press, 1989, pp. 191-203
- Sterling, L. A Meta-Level Architecture for Expert Systems, in Maes, P. and Nardi, D. (eds.) *Meta-Level Architectures and Reflection*, North-Holland, 1988, pp. 301-311
- Sterling, L. and Codish, M. PRESSing for Parallelism: A Prolog Program Made Concurrent, in Shapiro, E. (ed.) *Concurrent Prolog*, (ed. E. Shapiro), MIT Press, 1987, pp. 304-350
- Ben-David, A. and Sterling, L. A Prototype Expert System for Credit Evaluation, in Pau, L.F. (ed) *Artificial Intelligence in Economics and Management*, Elsevier North-Holland, 1986, pp. 121-128

Refereed Conference Publications

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- Sterling, L. and Turnidge, T.Z. Specifications: Syntactic Sugar for Prolog, Workshop on Software Engineering and Logic Programming, ICLP94, June, 1994.
- Nygate, Y. and Sterling, L. ASPEN: A Methodology for Designing Complex Problem Solving Systems, Proceedings of the Israeli Conference on AI, 1993.
- Srinivasan, V. and Sterling, L. A Knowledge Based Framework for Developing and Customizing Schedulers, Proceedings of the 8th Knowledge-Based Software Engineering Conf., IEEE Computer Society Press, 1993, pp. 69-78.
- Sterling, L. On Merging Prolog Programs, ARO/AFOSR/ONR Workshop on Software Slicing Merging and Integration, Monterrey, 1993, pp. 31-33.
- Sterling, L. and Sitt Sen, C. A Tool to Support Stepwise Enhancement in Prolog, Workshop on Logic Programming Environments, Vancouver, Canada, 1993, pp. 21-26.
- Sterling, L., Jain, A. and Kirschenbaum, M. Composition Based on Skeletons and Techniques, Workshop on Composing Logic Programs, Vancouver, Canada, 1993.
- Schwartz, D.G. and Sterling, L. BlackLog: From Blackboard System to Process-Oriented Prolog, Workshop on Blackboard-based Logic Programming, Budapest, June, 1993.
- Srinivasan, V. and Sterling, L. Design and Implementation of Transportation Schedulers, Proceedings of the AI92, World Scientific Press, 1992, pp. 227-232.
- Kovacic, K., Sterling, L., Petot, G., Ernst, G. and Yang, N. Towards an Intelligent Nutrition Manager, Proceedings of the ACM/SIGAPP Symposium on Computer Applications, ACM Press, 1992, pp. 1293-1296.
- Schwartz, D. and Sterling, L. Meta-Level Constructs for Concurrency among Loosely-Coupled, Course-Grained Knowledge Sources, JICSLP Workshop on Distributed and Parallel Implementations of Logic Programming Systems, Washington, USA, 1992.
- Kirschenbaum, M., Sterling, L. and Jain, A. Relating Logic Programs via Program Maps, also is in 2nd International Conference on Artificial Intelligence and Mathematics, 1992.
- Schwartz, D.G., Mayland, E.J. and Sterling, L. The FLIPSIDE Blackboard: A Financial Logic Programming System for Distributed Expertise, in Proceedings of the First
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- International Conference on Artificial Intelligence Applications on Wall Street, IEEE Computer Society Press, 1991, pp. 64-72.
- Kirschenbaum, M. and Sterling, L. Refinement Strategies for Inductive Learning of Simple Prolog Programs, in Proceedings of the 12th International Joint Conference on Artificial Intelligence, Sydney, Australia, Morgan Kaufmann, 1991, pp. 757-763.
- Yalçinalp, L.Ü. and Sterling, L. Uncertainty Reasoning in Prolog with Layered Meta-Interpreters in Proceedings of the Seventh Conference on Artificial Intelligence Applications, IEEE Computer Society Press, February, 1991, pp. 398-402.
- Sterling, L. and Venkatesh, S. Explaining Constraint Computations, in Proceedings of the AAAI Symposium on Constraint-Based Reasoning, 1991, pp. 257-266.
- Yalçinalp, L.Ü. and Sterling, L. Building Embedded Languages and Expert System Shells in Prolog, in Proceedings of the Tools for AI Washington, USA, 1990, pp. 147-159.
- Lakhotia, A. and Sterling, L. Program Development by Stepwise Enhancement, in Proceedings of the Second International Conference on Software Engineering, Skokie, USA, 1990.
- Power, A.J. and Sterling, L. A Notion of Map Between Logic Programs, in Proceedings of the 7th International Conference on Logic Programming, Warren D. and Szeredi P. (eds.), MIT Press, 1990, pp. 390-404.
- Kovach, J., BenDavid, A. and Sterling, L. An Expert Grinding Adviser for the Surface Grinding of Superalloys, in Grinding Fundamentals and Applications, Malkin, S. and Kovach, J. (eds.), ASME conference, California, 1989, pp. 349-356.
- Sterling, L. and Yalçinalp, L.Ü. Explaining Prolog Computations Using a Layered Meta-Interpreter, Proceedings of the IJCAI-89, Morgan Kaufmann, Detroit, USA, 1989, pp. 66-71.
- Radack, G. and Sterling, L. Describing Objects Using Constraints, Proceedings of the ESD/SMI Expert Systems Conference, Detroit, 1989, pp. 485-496.
- Beer, R.D., Chiel, H.J. and Sterling, L. The Design of Heterogeneous Neural Networks for Intelligent Behavior in Dynamic Environments, Proceedings of the Fifth Annual Conference on Aerospace Applications of Artificial Intelligence, Dayton, USA, 1989.
- Radack, G. and Sterling, L. Describing Geometric Objects Symbolically, Proceedings of the 5th Israeli AI conference, Tel Aviv, Israel, 1988, pp. 31-42.
- Bansal, A. and Sterling, L. Abstract Interpretation of Logic Programs Based on Types, Proceedings of the 2nd International Conference on Fifth Generation Computer Systems, Tokyo, Japan, 1988, pp. 422-429.
- Vezina, J. and Sterling, L. A CLIPS Prototype for Autonomous Power Systems Control, Proceedings of the 4th Conference on AI for Space Applications, Huntsville, USA, 1988, pp. 211-220.
- Sterling, L. and Lakhotia, A. Composing Prolog Meta-Interpreters, Proceedings of the 5th International Conference on Logic Programming, Bowen, K.A. and Kowalski, R. (eds.), MIT Press, Seattle, USA, 1988, pp. 386-403.
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- Bansal, A. and Sterling, L. Compiling Enumerate-and-Filter Programs for Efficient Execution under Committed-Choice AND-Parallelism, Proceedings of the 1988 International Conference on Parallel Processing, Illinois, 1988, pp. 22-25.
- Discenzo, F., Ernst, G.W., He, X., Ozsoyoglu, Z.M. and Sterling, L. Integration of Expert Systems and database Technologies, Proceedings of the AAAI Workshop on Databases in Large AI Systems, 1988, pp. 71-77.
- Bansal, A. and Sterling, L. Source-to-Source Transformation of Sequential Logic Programs to AND-Parallelism, Proceedings of the 1987 International Conference on Parallel Processing, Illinois, USA, 1987, pp. 795-802.
- Sterling, L. and Nygate, Y. PYTHON: An Expert Squeezer, Proceedings of the 4th International Conference on Logic Programming, Lassez, J.L. (ed.), MIT Press, Melbourne, Australia, 1987, pp. 654-674.
- BenDavid, A. and Sterling, L. Interfacing Tools for Explaining Expert Systems, in Information Technology: Emerging Opportunities and Challenges, Proceedings of the 2nd Pan Pacific Computer Conference, Singapore, 1987, pp. 179-187.
- BenDavid, A., Sterling, L. and Pao, Y.H. Reasoning and Induction in an Ordinal World, in Information Technology: Emerging Opportunities and Challenges, Proceedings of the 2nd Pan Pacific Computer Conference, Singapore, 1987, pp. 188-196.
- Sterling, L. and Beer, R.D. Incremental Flavor-Mixing of Meta-Interpreters for Expert System Construction, Proceedings of the 3rd IEEE Symposium on Logic Programming, Salt Lake City, USA, 1986, pp. 20-27.
- Sterling, L. Meta-Interpreters: The Flavors of Logic Programming?, Proceedings of the Workshop on Foundations of Logic Programming, Washington, USA, 1986.
- Sterling, L. Logical Levels of Problem Solving, also appeared in Proceedings of the 2nd International Logic Programming Conference, Uppsala, Sweden, 1984, pp. 231-242.
- Sterling, L. Implementing Problem-Solving Strategies Using the Meta-Level, Proceedings of the 4th Jerusalem Conference on Information Technology, Jerusalem, Israel, 1984, pp. 125-132.

Newspaper/Magazine articles

5 Conversation articles not included

Sterling, Leon. Swinburne University of Technology; 2011. Accelerating the digital researcher on the information superhighway, Swinburne Magazine

Sterling, Leon. Borneo Post; 2011. Copyright, consumers, control and consequences.

Also guest blog for Higher Ed Blog on Ruby the robot

Other Publications

Sterling, L., Taveter, K. and the Daedalus Team Experience from Building Industry Strength Agent-Based Appliances, An industry experience report at the Australian Software Engineering Conference (ASWEC-06), Sydney, Australia, April 2006.

Sterling, L. Experiences with Agent-Oriented Software Modelling, Proceedings of the Dagstuhl workshop 060621, Dagstuhl, Germany, 2006.

Padgham, L., Shehory, O. and Sterling, L. Methodologies for agent-oriented software engineering. Proceedings of the 7th European Agent Systems Summer School (EASSS 2005), Utrecht, The Netherlands, 2005.

Cruz, L.P., Annamalai, M. and Sterling, L. Analyzing High Energy Physics Experiments, in Burg, B., Dale, J., Finin, T., Nakashima, H., Padgham, L., Sierra, C. and Willmott, S. (eds), Proceedings of the of the Workshop on AgentCities, Bologna, Italy, 2002.

Annamalai, M., Sterling, L. and Moloney, G. A Collaborative Framework for Distributed Scientific Groups, Proceedings of the Workshop on Ontologies in Agent Systems (OAS 2002), Bologna, Italy, 2002.

Annamalai, M., Sterling, L. and Moloney, G. Adding Semantics to Scientific Collaboration Documents, Poster at International Semantic Web Conference (ISWC 2002), Sardinia, 2002.

Fabens, W. and Sterling, L. Generalized scheduling development environment, in Proceedings of the Tools for Artificial Intelligence, IEEE Computer Society Press, 1991, pp. 536-537.

Sterling, L. Mathematical Reasoning, Byte Magazine, October 1987, pp. 177-180

Refereed Video Proceedings

Quinn, R., Causey, G., Merat, F., Sargent, D., Barendt, N., Newman, W., Velasco, D., Podgurski, A., Jo, J., Sterling, L., and Kim, Y., Agile Manufacturing video, 1996 IEEE International Conference on Robotics and Automation.

Consulting Projects

Xperior, Small Start up, 2016-present

Ran agent-oriented modeling workshop and looked at the possibility of automatic document extraction

Office of the Chief Scientist, 2016

Feedback on a STEM Report

Brooks, Cushman and Co.

US patent case

WA Solicitor's Office, 2014 (case settled)

Legal case commenting on software process

Redflex Systems, 2005

Verification of Traffic Software

Gilbert and Tobin, 2004

Expert witness regarding Kazaa software and the mp3s4free.com Web site

Ardmona/SPC, 2003-2005

Automated Inspection of peaches and pears

Ohio Online, US, 1995

The Scheduling Niche, US, 1995

Quintus Computer Systems, US, 1987

Texas Instruments, US, 1986

IBM Israel, 1984

Hal Robotics, Israel, 1984

Almex Ticket Equipment, UK, 1983

Software Commercialisation

Queue Solutions, 2001-2005

Patents

NEURAL-BASED AUTONOMOUS ROBOTIC SYSTEM (with R.D. Beer and H.J. Chiel) U.S. patent 5,124,918, issued June 23, 1992

Chair, Committee for celebrating 60 years of computing in Victoria, 2016

Professional Committees

- ❖ Executive Committee, Assoc. Logic Programming, 1992-1996
- ❖ IFIP Tech Committee TC-12 on Artificial Intelligence, 1991-1998

Invited and Public Talks

- ❖ Victoria University of Wellington, November, 2017
 - ❖ Raising the Bar Melbourne, November 2016
 - ❖ ACER Research Conference, August, 2016
 - ❖ University of Sydney, June 2016
 - ❖ Victoria University of Wellington, November, 2015
 - ❖ Robots for Rehabilitation, CRE-CP Symposium, Melbourne, July, 2015
 - ❖ Promoting ICT skills development across all disciplines, *Improving STEM Education and Skills*, Melbourne, February 2015
 - ❖ Panel Speaker, Digital Pervasiveness, Innovations in Learning, Sydney, 2014
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- ❖ Agent-Oriented Software Engineering, Mauritius, 2013
- ❖ Public Lecture about Alan Turing, Swinburne Leadership Centre, 2012
- ❖ Keynote Speaker, Agent-Oriented Modelling for Converging Devices and Systems, Conference on IT in Asia, Kuching, Malaysia, 2011
- ❖ Keynote Speaker, Learning Futures Forum, Melbourne, 2010
- ❖ Careers in IT – Victorian IT Teachers Association, Melbourne, 2010
- ❖ ICT Careers Expo, Melbourne, 2010
- ❖ Boys and Technology Conference, Brighton Grammar, 2010
- ❖ Agent Technology Video Seminar, Melbourne-Estonia, 2010, 2011, 2013, 2014.
- ❖ Public Lecture about Donald Knuth, Key Thinkers Series, University of Melbourne, 2009
- ❖ eDiscovery, to law firm in Sydney, 2009.
- ❖ Australian Computer Science Week, Ballarat, 2007.
- ❖ Keynote Speaker, PRICAI'07, Pacific Rim Conference on Artificial Intelligence, Thailand, 2007.
- ❖ International Workshop on Declarative Aspects of Agent Technologies, DALT 2007, Hawaii, May, 2007.
- ❖ Securecon, Melbourne, 2006.
- ❖ Australian Society of Operations Research Workshop, Melbourne, 2004.
- ❖ NZ SE Research Symposium, Auckland, 2004.
- ❖ Griffith University Planning Day, 2004.
- ❖ Monash Cool Campus Workshop, Melbourne, 2003.
- ❖ PRIMA 2000, Fourth Pacific Rim Intl. Conference on Multi-Agent Systems, Melbourne, 2000
- ❖ International Workshop, IIWAS'99, Information Integration and Web Applications and Services, Indonesia, November, 1999
- ❖ Summer School, Software Engineering and Logic Programming, Italy, Sept, 1998
- ❖ Keynote Speaker, AI'97, Australian Artificial Intelligence Conference, Perth, Australia, 1997
- ❖ International Conference on Logic Programming, ICLP94, Italy, June 1994
- ❖ Increasing the Practical Impact of Formal Methods for Computer-Aided Software Development, ARO/AFOSR/ONR Workshop, Monterey, California, October, 1993
- ❖ Italian Logic Programming Conference, GULP'92, Tremezzo, Italy, June 1992
- ❖ Second Conf on Meta-Programming in Logic, Meta-90, Leuven, Belgium, 1990
- ❖ Fourth Asian School on Computer Science, Thailand, November, 1989
- ❖ Advanced School on Foundations of Logic Programming, Sardinia, Italy, September, 1988

Leadership in Teaching, especially Software Engineering

Australian Computer Society/Engineers Australia Joint Board on Software Engineering

Member, 2001-2005, 2006-2008

Chair, 2002, 2004, 2006-2008, 2012 - present

Academic Coordinator

Software Engineering, 1999-2001 (through Melbourne University Private)

First undergraduate course run through MUP. Good outcomes for the attendees who were successfully transferred into University of Melbourne when the Adacel Training facility in Wodonga shut down

DSTO Graduate Certificate in Scientific Leadership, 2008-2009 (Through Melbourne Consulting and Custom Programs).

e-Forensics, 2003-2006 (through Melbourne University Private)

Teaching

- ❖ Software Engineering Project: 2003, 2016-8
*Teaching SWEN90013 at the University of Melbourne in 2016-2-18 has seen a major change of the subject to use modern, agile development methods which more closely align with current industry practice.
Two teaching publications have resulted.*
- ❖ Software Engineering Process and Practice: 2000-2002, 2006.
- ❖ Software Engineering Case Studies: 2003.
- ❖ Project Management: 2004, 2005.
- ❖ Intelligent Software Agents: 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2005, 2006.
- ❖ Logic programming and Prolog: 1986-1995, 1999, 2002-2004.
- ❖ Prolog as a Formal Method in Software Engineering: 1994.
- ❖ Artificial Intelligence: 1989-1994, 1996-1998.
- ❖ Analysis of Algorithms: 1988, 1989.
- ❖ Theoretical Computer Science: 1991.
- ❖ Introduction to Programming: 1985, 1991, 1993, 1994.

University Committee Leadership

Chair, Enterprise Innovation and Architecture Forum,

Swinburne University of Technology, 2012 – 2015

Chair, Higher Education IT Advisory Committee,

Swinburne University of Technology, 2010 - 2012

Chair, Teaching and Learning Quality Assurance (TALQAC),

University of Melbourne, 2004-2006

Chair, School of Enterprise Academic Committee, University of Melbourne, 2007-2009

External Departmental Reviews

DST Group, Curtin University of Technology, University of Auckland, University of Tasmania, Victoria University of Wellington, University of Western Australia, University of Mauritius, Griffith University, UHE, Australian Computing Academy

Accreditation activities

Australian Computer Society - 2003, 2004, 2005, 2006, 2007

Engineers Australia - 1999, 2003, 2005, 2006, 2008, 2009, 2011, 2014, **2018**

NATTS, 1985 in Cleveland

Research Grant Activity

- 2020-2022 Maturing design-led innovation processes with motivational models (DP200102955) ARC Discovery Grant, (co-CI, with Sonja Pedell), \$390,000.
- 2016–2018 One Size Doesn't Fit all: Incorporating Emotions in Technology Development, ARC Discovery Grant, (Lead CI, with Tim Miller, Sonja Pedell, and Antonette Mendoza), \$375,000.
- 2014-2017 One of team of 12 CIs across Swinburne, ARC Training Centre in BioDevices, Australian Research Council, \$1,800,000
- 2014-2017 M. Kyrios, J. Farhall, D. Austin, S. Rossell, N. Thomas, D. Castle, E. Fossey, G. Murray, C. Mihalopoulos, L. Sterling, and others, Use of online technology to promote self-management and recovery in people with psychosis; Mental Illness Research Fund, \$1,900,000
- 2014-2017 J. Gunn, C. Mihalopoulos, H. Hegarty, A. Williams, L. Sterling, P. Chondros, S. Davidson and others, A randomised trial of a clinical prediction tool for targeting depression care (Target-D); National Health and Medical Research Council, \$922,000
- 2015 L. Sterling, H. Kingsley, A. Scheinberg: Using a NAO robot to help with Paediatric Rehabilitation; Transport Accident Commission, \$27,000
- 2014-2016 S. Leitch, L. Sterling, T. Miller, A. Mendoza and others, Increasing knowledge and motivating collaborative action on Low Carbon Living through team-based and game-based mobile learning; CRC for Low Carbon Living, \$450,000
- 2013-2014 M. Kyrios, L. Sterling, A. Lopez-Lorca, R. Vasa, S. Pedell, J. Abbott, Supportive technology for monitoring sleeping disorders: developing a mobile application for addressing users' needs; Barbara Dicker Brain Sciences Foundation, \$15,000
- 2013-2014 L. Sterling and S. Pedell, Second Generation Personal Alarms, Smart Services CRC, \$65,000
- 2013–2015 Socially-Oriented Requirements engineering - Software Engineering meets Ethnography, ARC Discovery Grant, (Lead CI, with Sonja Pedell and Tim Miller), \$306,000.
- 2008–2011 Socially-Oriented Requirements engineering - Software Engineering meets Ethnography, ARC Discovery Grant, \$205,000 (Lead CI, with Frank Vetere and Steve Howard).
- 2008–2011 Agent-Based Simulation – New Approaches for Design and Prototyping, ARC Linkage Grant with Industry Partner Jeppesen (a Boeing company), (Lead CI, with Kuldar Taveter and Keith Joshi), \$108,381.
- 2007 Intelligence v Performance in Agent-Based Software, University of Melbourne International Research Development Scheme, \$7,253.
- 2006 Advanced Intelligence for Project Management Software, State Government Start Grant program (University of Melbourne share for interaction with industry), \$22,000.
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- 2005–2006 Socially-Oriented Requirements Elicitation, Smart Internet Technology CRC, \$80,000.
- 2005 Project Management Software, DITR Industry grant with Invoke, \$20,000.
- 2004 - 2006 Aspects of Agent-Oriented Software engineering Methodology, Melbourne Research Grant Scheme, \$85,000
(Three years running, a near miss in ARC Discovery Grant)
- 2004 – 2006 Towards Invisibly Intelligent Agent Appliances via Experience-based Computing, ARC Linkage grant with Adacel Technologies/Lochard, \$226,507.
- 2004 - 2007 Intelligent Structured Knowledge Source Integration agents to integrate the world wide web with a machine readable ontology, ARC Linkage grant with Cycorp, \$90,000 approx.
- 2003 – 2004 Methodology for Multi-Agent Application Project, Smart Internet Cooperative Research Centre, \$151,300.
- 2003 – 2004 Pedagogical Agents, Melbourne-Monash Protocol (one of 7 PI's), \$110,000.
- 2002 – 2007 Multi-Ontologies meet UML, ARC Discovery Project, folded into PIMCE, my contribution, \$300,000 approx.
- 2002 Grid Problem Solving Environments, Victorian Partnership for Advanced Computing, \$115,000.
- 2001 – 2003 Agents for Online Resources, ARC Linkage Grant with Hearne Scientific Software, \$69,000.
- 2001 Ontologies for Multi-Agent Systems, Melbourne Research Grant scheme, \$20,000.
- 2001 Software Engineering Practices for Agent-based Systems, DSTO, \$30,000.
- 2000 Using XML for Agents, Melbourne IT, \$60,000.
- 2000 – 2001 An e-tutor System, R&D Start Grant with Hearne Scientific Software, \$20,000.
- 1999 – 2001 DCITA through Software Engineering Australia, Rapid Diffusion of Agent Technology – Development of a Model and Delivery of a Roadshow, \$119,000.
- 1999 Agent Interfaces for Customer Management, Melbourne IT, \$60,000.
- 1999 Report on Open Source Intelligence, DSTO, \$25,000.
- 1998 – 1999 Agent-based Software Engineering Resource, DIST through Software Engineering Australia, \$50,000.
- 1998 – 1999 Dynamic Objects, ARC SPIRT Grant with Ericssons, \$40,251.
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- 1997 – 1998 Incorporating Semantic Knowledge in Agents for the World Wide Web, ARC Small Grants Scheme, \$40,000.
- 1997 – 1998 Agents in a Learning Environment, Melbourne IT, \$90,000.
- 1997 Study of agent needs (with Agent-Oriented Systems), Land Operations Division, DSTO, \$30,000.
- 1997 An Agent Shell, Adacel, \$10,000.
- 1997 Logic Programming and Software Engineering, University of Melbourne Strategic Planning Fund, \$80,000.
- 1996 Agent Recovery (co-investigator with K. Rao), Cooperative Research Centre on Intelligent Decision Systems, \$50,000.
- 1994 - 1995 Agile Manufacturing (one of five academic staff), Eveready Battery Company and Cleveland Advanced Manufacturing Program - \$521,000.
- 1993 - 1995 Maintenance and Analysis of Structurally Enhanced Programs, National Science Foundation, \$120,251.
- 1992 - 1993 Knowledge-based Management, (co-PI) CMOST - \$25,312.
- 1992 An Object-Oriented Scheduler, Cleveland Advanced Manufacturing Program, \$13,920.
- 1990 - 1992 Stepwise Enhancement: A Methodology for Prolog Programming, National Science Foundation, \$114,229.
- 1990 - 1991 Generalized Scheduling: An Application of Meta-Programming, BP America and Cleveland Advanced Manufacturing Program - \$49,964 (This project subsequently attracted \$50,000 from Small Business Innovation Research Fund).
- 1991 - 1992 Blackboard Architectures, Swiss Bank Corporation/O' Connor and Associates, \$39,890.
- 1991 Fellowship for Raiomond Dubash, United Nations Development Program - \$7700.
- 1989 Feature-Based Reasoning about Geometric Dimensioning and Tolerancing, Systran Corporation, for Materials Lab., Wright Patterson Air Force Base, \$17,081.
- 1989 - 1990 A Real-time Architecture for Expert Systems, NASA Lewis Research Center, \$20,000.
- 1988 - 1990 Meta-Interpreters for Expert Systems, National Science Foundation, \$149,229.
- 1988, 1989 Meta-Interpreters for Expert Systems (Research Experiences for Undergraduates - supplement) National Science Foundation, \$6,390.
- 1988- 1989 Power Systems Analysis, NASA Lewis Research Center, \$25,000.
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- 1987 - 1988 Incorporating Parallelism in Expert Systems, Cleveland Advanced Manufacturing Program, \$32,300.
- 1987 - 1988 Methods of Applications of AI/Expert Systems Technology, NASA Lewis Research Center, \$15,000.
- 1986 - 1987 Reusable Explanation Shells for Expert Systems, Cleveland Advanced Manufacturing Program, \$40,954.
- 1986 Declarative Prolog Programs, Texas Instruments, \$7,340.
- 1986 Prolog Benchmarks, Texas Instruments, \$6,630.
- 1986 An Explanation Shell, (co-P.I.) Expert Systems International, \$5,000.
- 1985 - 1987 Expert system for grinding, TRW, (MMTC division) and CAMP, \$30,000.

Research and Computing Infrastructure

- 2008 OptiPortal Development, \$120,000, Multimedia Victoria (now DIIRD).
 - 2000 Distributed Database Technologies for Terabyte Document Collections (with R. Sacks-Davis, A. Moffat, and J. Zobel), ARC REIF, \$165,000.
 - 1998 Business Plan for SEA(Vic.), Multimedia Victoria, \$30,000.
 - 1997 Software Engineering Australia, (one of 12 investigators for a large national project) Department of Industry, Science and Tourism, \$9,000,000 (Technology Support Centre).
 - 1996 Intelligent Agent Laboratory. University of Melbourne, \$80,000.
 - 1991 - 1992 Exploratory Research in Intelligent Systems, Cleveland Advanced Manufacturing Program, \$122,000.
 - 1988 Computer Research Equipment (with G. Ozsoyoglu, M. Ozsoyoglu), National Science Foundation, \$52,282.
 - 1987 Workstations for Intelligent Systems Research (with Y.H. Pao, K. Loparo), National Science Foundation, \$88,243.
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Conference Tutorials

- ❖ Agent-Oriented Software Engineering (with Taveter, K. and Shehory, O.) AAMAS, Budapest, 2009
- ❖ Agent-Oriented Modeling, ISSEC, Canberra, 2009.
- ❖ Agent-Oriented Software Engineering (with Taveter, K.), ER, Auckland, 2007
- ❖ Agent-Oriented Software Engineering (with Padgham, L.) IAT, Compiègne, 2005
- ❖ Agent-Oriented Software Engineering (with Padgham, L. and Shehory, O.) Agent Summer School, Utrecht, 2005
- ❖ Agent-Oriented Software Engineering (with Padgham, L.) AAMAS, Utrecht, 2005
- ❖ Agent-Oriented Software Engineering (with Juan, T.), ICSE, St. Louis, 2005
- ❖ Agent-Oriented Software Engineering (with Juan, T.), IAT, Beijing, 2004
- ❖ Agents for Software Engineering (with Durnota, B.), TOOLS-96, Melbourne, 1996
- ❖ Prolog for Software Engineering (with Reintjes, P.), Second Intl. Conference on Practical Applications of Prolog, London, 1994
- ❖ Prolog Programming for Artificial Intelligence, AI92, Hobart, 1992
- ❖ Prolog for Software Engineering (with Deville, Y. and Deransart, P.), 8th ICLP, Paris, 1991
- ❖ Logic Programming (with Kornfeld, W.), IJCAI-89, Detroit, 1989
- ❖ Logic Programming Techniques (with Hardy, S.), AAI-88, Minneapolis, 1988
- ❖ Prolog Programming for Artificial Intelligence, 4th ILPS, San Francisco, 1987
- ❖ Advanced Prolog Programming, 4th ICLP, Melbourne, May, 1987
- ❖ Introduction to Logic Programming and Prolog, ACM course, Detroit, April, 1987

Journal Editorship

- ❖ International Editorial Review Board Member – International Journal of People Oriented Programming, 2010 - present
- ❖ Advisory Board member – Journal of Internet Research, 1998-present
- ❖ Editorial Adviser, Computational Intelligence for Finance, 1995-2000
- ❖ Area Editor – Programming Methodology and Applications, Journal of Logic Programming, 1991-1998
- ❖ Advisory Board Member - Expert Systems: Research and Applications, 1989-1994

Conference Organization

- ❖ Programme Chair, Software Engineering Stream, ISSEC 2009, Canberra, 2009
 - ❖ Programme co-Chair (with 3 others), Cooperative Information Agents, Germany, 2007
 - ❖ Finance Chair, ASWEC, Melbourne, 2004
 - ❖ Programme co-Chair (with 3 others), DALT Workshop, Melbourne 2003
 - ❖ Finance Chair, 2nd International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), Melbourne, 2003
 - ❖ Program co-chair of the Australian Software Engineering Conference, Canberra, 2001
 - ❖ Programme Chair, International Conference on Logic Programming, Japan, 1995
 - ❖ Programme Chair, Practical Applications of Prolog, London, April, 1994
 - ❖ Workshop co-Chair (with P. Ciancarini) Applications of Logic Programming for Software Engineering, post-ICLP'94, Italy, 1994
 - ❖ Programme co-Chair, AI'92, Australian Artificial Intelligence Conference, Hobart, Nov. 1992
 - ❖ Poster Chair, International Logic Programming Symposium, San Diego, Nov. 1991
 - ❖ General Chairman, North American Conference on Logic Programming, Cleveland, October 1989
-

Conference Programme Committees (partial)

APSEC, 2003-2007, 2010; IC-SOFT 2007, AAMAS04, New York (SPC); ASWEC 2004-2007; Australian Computer Science Conference, 2003-2007; Autonomus Agents and Multi-Agent Systems, Bologna, 2002; Autonomous Agents, Montreal, 2001; Agent-Oriented Software Engineering, Montreal 2001 and Limerick, 2000; Pacific Rim Conference on Multi-Agent Systems, Melbourne, 2000; Practical Applications of Agents, London, 1999 and 2000; International Conference on Multi-Agent Systems, Europe, 1998; Third International Conference on Practical Applications of Agents, London, 1998; Turkish Artificial Intelligence Conference, 1998; AI'97, Australian Artificial Intelligence Conference, Perth, Dec. 1997; Second International Conference on Practical Applications of Agents, London, 1997; International Symposium on Logic Programming, 1997; Fifth International Conference on Practical Applications of Prolog, London, 1997; International Logic Programming Symposium (ILPS), Vancouver, 1993; Third International Conference on Fifth Generation Computing, Tokyo, 1992; Meta-92, Meta-Programming in Logic, Uppsala, Sweden, 1992; Seventh International Conference on Logic Programming, Paris, 1991; SIGPLAN Conf. on Programming Languages Design and Implementation, Montreal, 1991; Tools for AI, Washington, 1991; Meta-90, Meta-Programming in Logic, Leuven, Belgium, 1990; North American Conference on Logic Programming, Cleveland, 1989; Fifth International Conference on Logic Programming (ICLP), Seattle, 1988; Second International Conference on Fifth Generation Computing, Tokyo, 1988; Fourth Symposium on Logic Programming, San Francisco, 1987

Reviewing (partial)

IJAOSE, Computing Reviews, Journal of Parallel Processing, Computational Intelligence, Comm. ACM, IEEE Computer, IEEE Expert, Computer Languages, JLP, VLDB, IJCAI, Logic Programming Symposium, International Conference on Logic Programming, NSF, Canadian Research Foundation, MIT Press, Plenum Publishers, Computer Society Press

Graduate Student Supervision

Completed:

- ❖ James Marshall, Wonderful Design, 2021 (currently in revision)
 - ❖ Regina Sirendi, Models for eCommerce (with Tallinn University of Technology), 2018
 - ❖ Baby Gobin, Constructing Ontologies, 2015
 - ❖ Saeed Araban, PhD, Reusable software, 2012
 - ❖ Bin Lu, PhD, Supporting agent-oriented models within the software life cycle, 2012
 - ❖ YuXiu Luo, PhD, Quality requirements: An agent-oriented modelling approach, 2012
 - ❖ Wai Shiang Cheah, PhD, Pattern based approach for agent-oriented software development, 2010
 - ❖ Giannakis Antoniou, PhD, Technologies Avoiding Privacy Incidents in Hostile Environments, 2009
 - ❖ Kendall Lister, Towards Semantic InterOperability, PhD, 2009
 - ❖ Thomas Juan, ROADMAP methodology for Agent-Oriented Software Engineering, PhD, 2008
 - ❖ Nicole Ronald, Agent-based Approaches to Pedestrian Modelling, M. Eng.Sc, 2007
 - ❖ Donato Perugini, Agents and Logistics, PhD, 2007
 - ❖ Ayodele Oluyomi, Patterns and Protocols for Agent-Oriented Software Development, PhD, 2006
 - ❖ Andrew Peel, On Designing a Mobile Robot for Robocup, M.Eng. Sci., 2006
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- ❖ Muthukuruppan Annamalai, Modelling Knowledge for Scientific Collaboration on the WWW, PhD, 2005
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