

Prof. Ryszard Kowalczyk - Short CV

Qualifications PhD (Silesian UT, Gliwice, Poland - 1990), MEng (WSInz Zielona Gora, Poland - 1986)

Employment summary

2017 - present Director of Swinburne Key Lab for Software Systems, Swinburne University of Technology, Australia
2014 - present State Professor, Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland
2005 - 2010 Director of Swinburne Centre for Complex Software Systems and Services, Swinburne University
2003 - present Professor of Intelligent Systems, Head of IAT Group, Swinburne University of Technology, Australia
2004 - 2006 Visiting Professor, Hasso-Plattner-Institute (HPI), University of Potsdam, Germany
1997 - 2003 Principal Research Scientist, Head of Applied AI Group, CSIRO, Melbourne & Sydney, Australia
1996 - 1997 Senior Research Scientist, Commonwealth Scientific & Industrial Research Organisation (CSIRO)
1992 - 1996 Senior Research Scientist, Knowledge-Based Systems R&D Group, CRA (Rio Tinto), Perth, Australia

Research experience

Ryszard Kowalczyk is Professor of Intelligent Systems, Director of Swinburne Key Lab for Software Systems, and Head of Intelligent Agents Technology (IAT) Research Group in School of Software and Electrical Engineering (SSEE), Faculty of Science, Engineering and Technology (FSET) at Swinburne University of Technology, Melbourne, Australia. Prior to joining University, he led Artificial Intelligence (AI) research and development at Commonwealth Scientific and Industrial Research Organisation (CSIRO) and a number of corporate R&D centres of multinational companies in Australia and overseas. Prof Kowalczyk is internationally recognised for his research contributions in artificial intelligence, intelligent agents and collective intelligence, and their applications in digital eco-systems of interacting organisations, people and things, i.e. cyber-physical-social eco-systems. He has co-authored 4 patents and published more than 200 articles in international journals and fully refereed conference proceedings. Prof Kowalczyk is co-Editor-in-Chief of Transactions on Computational Collective Intelligence (Springer), Associate Editor of WIRE Data Mining and Knowledge Discovery (Wiley), and has served on Editorial and Advisory Boards of several international journals with leading publishers (Elsevier, Springer, Kluwer) and international technical committees (IEEE SMC and IEEE FIPA). He has been awarded and successfully led more than 30 R&D projects funded by competitive grants and industry in excess of \$21 million, delivering significant research and commercial benefits; for example in two projects his industry partners reported benefits of \$50 million. His current and past industry collaborators include Suncorp, AARNet, Segura, Zimbani, CGREI, Siemens, Telstra, DST Group, Canon, IBM, Australian Navy, SAP and DaimlerChrysler. He has jointly developed and led large international collaboration projects including EU-FP6 Integrated Project on Adaptive Services Grids, and the largest Federal Government (DEST-ISL) funded project in agent-based service oriented computing in Australia, which was one of the largest single university led projects in that area internationally. He has been instrumental in developing and commercialising Smart Cloud Broker technology (www.SmartCloudBroker.com/). More info: www.ict.swin.edu.au/personal/rkowalczyk

Publications

Total = 215

- 42 international journal papers (IEEE, Elsevier, John Wiley & Sons, Taylor & Francis, Springer-Verlag), 12 book chapters and >130 fully refereed international conference papers; edited 20 books and int. journal special issues

Grant funding (since 2003)

Total = \$21.8M

National Competitive:

- Australian Research Council (ARC) Linkage: \$437K
- Australian Research Council (ARC) Discovery: \$534K

International Competitive:

- EU FP6 & ERD: \$14.1M

Other Competitive:

- AU DEST-ISL & Academy of Sciences: \$1.26M

Contracted Research (including prior to 2003):

- Industry and Government: ~\$4M

Other: • Swinburne & joint ventures: \$433K

PhD supervision

Total = 20

- Supervised 16 PhD students to completion (incl 3 Cotutelle Students); currently supervises 4 PhD students

International scientific community engagement (current and past selected)

Editorships:

- Co-Editor-in-Chief of Transactions on Computational Collective Intelligence (Springer)
- Associate Editor, Wiley Interdisciplinary Reviews on Data Mining and Knowledge Discovery (Wiley)
- Editorial Board of Journal of Algorithms in Cognition, Informatics and Logic (Elsevier)
- Editorial Board of International Journal on Multiagent and Grid Systems (IOS Press)
- Editorial Board of International Journal of Applied Mathematics and Computer Science (past)
- Editorial Advisory Board of International Transactions on Systems Science and Applications
- Editorial Review Board of International Journal of People-Oriented Programming (IGI Global)
- Editorial Review Board of Journal of E-Commerce in Organisations (IGI Global, past)

Advisory and Steering Committees:

- IEEE SMC Technical Committee on Self-Organized Distributed and Pervasive Systems
- Advisory Board and Scientific Committee of the International Artificial Intelligence Knowledge Society
- Advisory Member of 4 working groups in IEEE FIPA Standardisation Organisation for Agent Technology
- Co-Founder and Steering Committee member of Service Sciences Society Australia
- Advisory Board of Centre for Intelligent Information Technologies at University Rey Juan Carlos, Madrid, Spain

Conference Organisation:

- General Chair, Steering Committee Chair and Program Chair of 40 international conferences and workshops
- Program Committee member of more than 120 international conferences and workshops

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