

DALAL ALRAJEH

Curriculum Vitae

PERSONAL INFORMATION

Contact dalal.alrajeh@ic.ac.uk
Website www.doc.ic.ac.uk/~da04/

ACADEMIC EMPLOYMENT

- 9/2017–*present* Lecturer (USA equiv. Assistant Professor), Department of Computing, Imperial College London.
- 09/2013–08/2017 Imperial College Research Fellow, Department of Computing, Imperial College London.
Project: Automated Diagnosis and Repair for Declarative Specifications.
- 02/2010–08/2013 Research Associate, Department of Computing, Imperial College London.
Project: ERC *Partial Behaviour Modelling: A Foundation for Incremental and Iterative Model-Based Software Engineering*.
- 07/2003–08/2004 Teaching Assistant, Information Technology Department, King Saud University.

EDUCATION

- 2005–2010 PhD in Distributed Software Engineering, Imperial College London.
Thesis: *Requirements Elaboration using Model Checking and Inductive Learning*.
Supervisors: Dr Alessandra Russo and Dr Sebastian Uchitel.
- 2004–2005 MSc in Computing (Distinction), Imperial College London.
Thesis: *Extracting Requirements from Scenarios using Inductive Logic Programming*.
- 1998–2003 B.Sc. (Hons.) in Information Technology (First Class), King Saud University.

SCHOLARSHIPS AND AWARDS

- 2013 Imperial College Junior Research Fellowship, UK.
(4 years.)
- 2012 National Institute of Informatics Travel Award, Japan.
- 2005 Philips Group Project Prize in Computing Science,
Imperial College London.
- 2005 King Saud University Overseas PhD Scholarship.
(4 years, fees and stipend.)
- 2004 King Saud University Overseas MSc Scholarship.
(1 year, fees and stipend.)

2003 Aldawalij Prize for Educational Software.
King Saudi University.

PUBLICATIONS: JOURNALS

(Papers submitted to REF 2014 are marked with the symbol *.)

- [1] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. Automated Support for Diagnosis and Repair. *Communications of the ACM*, 58(2): 65–72, ACM, 2015.
SJR: 1.91 Q1
- [2] S. Uchitel, **D. Alrajeh**, S. Ben-David, V. Braberman, M. Checkik, G. De Caso, N. D’Ippolito, D. Fischbein, D. Garbervetsky, J. Kramer, A. Russo and G. Sibay. Supporting Incremental Behaviour Model Elaboration. *Computer Science—Research and Development*, 28(4): 279–293, Springer, 2013.
- [3*] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. Requirements Elaboration using Model Checking and Inductive Learning. *IEEE Transactions on Software Engineering*, 39(3): 361–383, IEEE Press, 2013.
SJR ranking: 1.543 Q1
- [4] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. Deriving Non-zeno Behaviour Models from Goal Models using ILP. *Formal Aspects of Computing*: 22(34): 217–241, 2010.
- [5] **D. Alrajeh**, O. Ray, A. Russo and S. Uchitel. Using Abduction and Induction for Operational Requirements Elaboration. *Journal of Applied Logic*, 7(3): 275–288, 2009.

PUBLICATIONS: REFEREED CONFERENCES

(Papers submitted to REF 2014 are marked with the symbol *.)

- [6] **D. Alrajeh**, L. Pasquale and B. Nuseibeh. *On Evidence Preservation Specifications for Forensic-ready Systems*. Submitted to 11th European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE17), 2017.
CORE rank: A.
- [7] D. Cavezza and **D. Alrajeh**. *Interpolation-Based GR(1) Assumptions Refinement*. Proceedings of 23rd International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS17): 281–297, Springer, 2017.
CORE rank: A.
- [8] R. Degiovanni, N. Ricci, **D. Alrajeh**, P.F. Castro and N. Aguirre. *Goal-Conflicts Detection based on Temporal Satisfiability Checking*. Proceedings of 30th International Conference on Automated Software Engineering (ASE16): 507–518, ACM, 2016.
Acceptance rate: 19% CORE rank: A.
- [9] **D. Alrajeh**, A. van Lamsweerde, J. Kramer, A. Russo and S. Uchitel. *Risk-Driven Revision of Requirements Models*. Proceedings of 38th IEEE/ACM International Conference on Software Engineering (ICSE16): 855–865, ACM, 2016.

Acceptance rate: 19% CORE rank: A*.

- [10] **D. Alrajeh** and P. Gill. *A Logic-based Approach to Understanding Lone-actor Terrorism*. Proceedings of the Technical Communications of the 31st International Conference on Logic Programming (ICLP15): 2015.
CORE rank: A.
- [11] D. Athakravi, **D. Alrajeh**, A. Russo and K. Broda. *Learning through Constraint-driven Bias*. Proceedings of 24th International Conference on Inductive Logic Programming (ILP14): 16–32, Springer, 2015.
CORE rank: B.
- [12] **D. Alrajeh** and R. Craven. *Automated Error-detection and Repair for Compositional Software Specifications*. Proceedings of 12th International Conference on Software Engineering and Formal Methods (SEFM14): 111–127, Springer, 2014.
Acceptance rate: 27% CORE rank: B.
- [13] R. Degiovanni, **D. Alrajeh**, N. Aguirre and S. Uchitel. *Automated Goal Operationalisation Based on Interpolation and SAT Solving*. Proceedings of 36th IEEE/ACM International Conference on Software Engineering (ICSE14): 129–139, IEEE Press, 2014.
Acceptance rate: 20% CORE rank: A*.
- [14] **D. Alrajeh**, R. Miller, A. Russo and S. Uchitel. *Reasoning about Triggered Scenarios in Logic Programming*. Proceedings of the Technical Communications of the International Conference on Logic Programming (ICLP13): TPLP 13(4-5), Cambridge University Press, 2013.
CORE rank: A.
- [15] **D. Alrajeh**, A. Russo, J. Lockerbie, N. Maiden, A. Mavin and M. Novak. *Computational Alignment of Goals and Scenarios for Complex Systems*. Proceedings of 35th IEEE/ACM International Conference on Software Engineering, New Ideas and Emerging Results Track (ICSE13): 1249–1252, IEEE press, 2013.
Acceptance rate: 22% CORE rank: A*.
- [16*] **D. Alrajeh**, J. Kramer, A. van Lamsweerde, A. Russo and S. Uchitel. *Generating Obstacle Conditions for Requirements Completeness*. Proceedings of 34th IEEE/ACM International Conference on Software Engineering (ICSE12): 705–715, IEEE Press, 2012.
Acceptance rate: 21% CORE rank: A*.
- [17] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. *Learning from Vacuously Satisfiable Scenario-based Specifications*. Proceedings of 15th International Conference on Fundamental Approaches to Software Engineering (FASE12): 377–393, Springer, 2012.
Acceptance rate: 24.6% CORE rank: B.
- [18] **D. Alrajeh**, A. Russo, S. Uchitel and J. Kramer. *Integrating Model Checking and Inductive Logic Programming*. Proceedings of 21st International Conference on Inductive Logic Programming (ILP11): 45–60, Springer, 2011.
CORE rank: B.
- [19] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. *An Inductive Approach for Modal Transition Systems Refinement*. Proceedings of the Technical Communications of the 27th International Conference on Logic Programming (ICLP11):

106–116, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2011.
CORE rank: A.

- [20*] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. *Learning Operational Requirements from Goal Models*. Proceedings of 31st IEEE/ACM International Conference on Software Engineering (ICSE09): 265–275, IEEE Computer Society, 2009.
Acceptance rate: 12% CORE rank: A*.
- [21] **D. Alrajeh**, A. Russo and S. Uchitel. *Deriving Non-zero Behaviour Models from Goal Models using ILP*. Proceedings of 11th International Conference on Fundamental Approaches to Software Engineering (FASE08): 1–15, Springer, 2008.
Acceptance rate: 26% CORE rank: B.
- [22] **D. Alrajeh**, O. Ray, A. Russo and S. Uchitel. *Extracting Requirements from Scenarios with ILP*. Proceedings of 16th International Conference on Inductive Logic Programming (ILP06): 62–77, Springer, 2006.
CORE rank: B.

PUBLICATIONS: REFEREED WORKSHOP

- [23] P. Gomoluch, **D. Alrajeh**, A. Russo and A. Bucchiarone. *Towards learning domain-independent planning heuristics*. Proceedings of 1st International Workshop on Architectures for Generality & Autonomy, co-located with International Joint Conference on Artificial Intelligence (IJCAI AGA17).
- [24] **D. Alrajeh**, S. Jha and S. Seshia. *A Non-monotonic Theory of Oracle-guided Inductive Synthesis*. Proceedings of the First Workshop on Learning in Verification (ETAPS LiVe17): 2017.
- [25] **D. Alrajeh**, A. Russo and S. Uchitel. *Inferring Operational Requirements from Goal Models and Scenarios using Inductive Systems*. Proceedings of 5th International Workshop on Scenarios and State Machines (ICSE SCESM06): 29–36, 2006.
- [26] **D. Alrajeh**, O. Ray, A. Russo and S. Uchitel. *Using Abduction and Induction for Operational Requirements Elaboration*. Proceedings of 5th International Workshop on International Workshop on the Integration of Abduction and Induction in AI and Bioinformatics (AIAI07): 1–9, 2007.

PUBLICATIONS: EXTENDED ABSTRACTS

- [27] **D. Alrajeh**, A. Russo, S. Uchitel, J. Kramer. *Logic-based learning in software engineering*. Proceedings of the 38th International Conference on Software Engineering Companion Volume (ICSE16): 892–893, ACM, 2016.
- [28] **D. Alrajeh** and N. Bouhana. *The Logic of Radicalization: A Guided Approach to Modelling and Analysis*. 71st Annual Meeting of American Society of Criminology (ASC15), Washington DC, 2015.
- [29] O. Cocarascu, **D. Alrajeh** and P. Gill. *Identifying Key Factors for Explaining Lone-actor Terrorists Target Choices*. 71st Annual Meeting of American Society of Criminology (ASC15), Washington DC, 2015.
- [30] **D. Alrajeh**, P. Gill and D. Athakrivi. *Learning Characteristics and Antecedent Behaviours of Lone-actor Terrorists*. International Conference on In-

ductive Logic Programming (ILP14): 2014.

- [31] **D. Alrajeh** and P. Gill. *An Inductive Learning Approach for Understanding Lone-actor Terrorist Target Choice*. 70th Annual Meeting of American Society of Criminology (ASC14), San Francisco, 2014.

PUBLICATIONS: POSTERS

- [32] **D. Alrajeh**, N. Bouhana and R. Morgan. *Causal Inference Framework for Crime Science*. International Crime and Policing Conference, Home Office, London, 2015.
- [33] **D. Alrajeh** and P. Gill. *Reasoning about Characteristics and Behaviour of Lone-actor Terrorists: A Logic-based Approach*. The Academic Centres of Excellence in Cyber Security Research (ACE-CSRs) Conference, Birmingham, 2014.

FUNDING: AWARDED

- 09/2016–08/2019 **The Social Ecology of Radicalization: A Foundation for the Design of CVE Initiatives**.
Type: Research Grant.
Role: Co-investigator, Imperial lead.
Other holders: N. Bouhana, UCL (PI), P. Gill, UCL (Co-I), J. Morrison, UEL (Co-I),
L. Lindekilde, Aarhus University, the Netherlands (Co-I).
Value: ~£646,700.
Source: Minerva Initiative, Department of Defense, USA.
- 09/2013–08/2017 **Automated Diagnosis and Repair for Declarative Specifications**.
Type: Junior Research Fellowship award.
Value: £199,151.
Source: Imperial College London, UK.
- 05/2015–28/2016 **Building an Intelligent Crime Linkage System**.
Type: Impact Acceleration Grant.
Role: Principal investigator.
Value: £6,187.
Source: ESRC, UK.
- 12/2012–01/2013 **Reasoning about Boolean Networks using Model Checking**.
Type: Travel Grant.
Role: Joint principal investigator
Other holder: Prof. K. Inoue, National Institute of Informatics, Japan.
Duration: 1 month.
Value: £2,500.
Source: MOU, National Institute of Informatics, Japan.

COLLABORATION AGREEMENTS

- 11/2013–10/2018 **Generating Theories about Serial and Serious Crimes**.
Role: Principal investigator.
Collaborators: National Crime Agency, UK.

INVITED TALKS AND BRIEFINGS

- 09/2017 *A Non-monotonic Perspective on Oracle-guided Synthesis.*
Dagstuhl Seminar on “Machine Learning and Formal Methods”, Schloss Dachstuhl, Germany.
- 02/2017 *Learning to Adapt: A Contextual Guide to Goal Survivability.*
IFIP 2.9. Working Group—Software Requirements Engineering, StellenBosch, South Africa.
- 10/2016 *Using Computer Science Techniques to Enhance Practitioner Decision-making.*
British Academy Conference on Using Behavioural Science to Target Prolific Criminals, London, UK.
- 10/2016 *Integrating Machine Learning and Automation into the Comparative Case Analysis Process.*
British Academy Conference on Using Behavioural Science to Target Prolific Criminals, London, UK.
- 07/2016 *Verification-driven Learning for Declarative Requirements Specifications.*
University of California Berkeley, Berkeley CA, USA.
- 05/2016 *Logic-based Learning in Software Engineering*
Technical Briefing at International Conference on Software Engineering, Austin, Texas, USA.
- 05/2016 *Designing Behaviourly Forensic-Ready Systems: Current Developments and Directions.*
National Crime Agency, Sunningdale Park, UK.
- 03/2016 *Repairing Software Requirements Models: A Declarative Learning-based Approach.*
The Laboratory for Foundations of Computer Science Seminar Series, University of Edinburgh, UK.
- 04/2016 *Verification-driven Learning for Declarative Software Specifications.*
Dagstuhl Seminar on “Machine Learning for Dynamic Software Analysis: Potential and Limits”, Schloss Dachstuhl, Germany.
- 12/2015 *A Logical Approach to Crime Linkage.*
British Psychological Society Seminar Series on Linking Acquisitive Crime, University of Derby, UK.
- 06/2015 *Improving our Understanding of Terrorists Target Selection.*
Fourth Workshop on Formal Methods And Tools for Security, Microsoft Research, Cambridge, UK.
- 12/2014 *Horizon scanning: Supporting Analysts through Computational Intelligence.*
Futures Scanning Group, City of London Police HQ, UK.
- 12/2014 *From Goals to Operational Specifications: Getting it right!*
Best of RESG Research 2014 Workshop, London, UK.
- 10/2014 *Automated Error-Detection and Repair for Compositional Software Specifications.*
Department of Computer Science, University of Middlesex, London, UK.
- 03/2014 *Handling Flaws in Declarative Specifications.*
The Irish Software Engineering Research Centre (Lero), Limerick, Ireland.

- 04/2013 *Automated Analysis and Generation of Hypothesis in Major Crimes.*
Association of Chief Police Officers (ACPO) Working Group, London, UK.
- 02/2013 *Supporting Crime Analysis and Hypothesis Generation using Machine Intelligence.*
UCL Centre for Security & Crime Science, University College London, UK.
- 02/2013 *Requirements Elaboration: An Inductive Search Problem.*
25th CREST Open Workshop on Requirements and Test Optimization, London, UK.
- 12/2012 *Handling Flaws in Declarative Specifications.*
Principles of Informatics Research Division, National Institute of Informatics, Tokyo, Japan.
- 06/2012 *Automated Approach for Diagnosing and Repairing Software Specifications.*
CREST Centre, University College London, UK.
- 12/2011 *AIMS: Automated Inference for Major Enquiry Systems.*
National Policing Improvement Agency, London, UK.
- 09/2011 *Model Checking and Inductive Learning: A Synergistic Partnership.*
ERC Workshop on Software Quality, Venice, Italy.
- 04/2011 *Requirements Discovery using Machine Learning.*
BCS East Anglia: Where Do Software Requirements Come From? Cambridge, UK.

CONTRIBUTED TALKS

- 2017 ESEC/FSE, ETAPS@LiVe, International Workshop on Software Engineering for Digital Forensics.
- 2016 ICSE, International Workshop on Requirements Engineering for Investigating and Countering Crime.
- 2015 ICLP, ASC.
- 2014 SEFM, ILP, ASC.
- 2013 ICSE, ICLP.
- 2012 ICSE, FASE.
- 2011 ICLP, ILP.
- 2009 ICSE.
- 2008 FASE.
- 2007 AIAI.
- 2006 ILP, SCESM.

ACADEMIC VISITS

- 09/2013–12/2016 Visiting lecturer, Department of Security and Crime Science, UCL, UK.
- 06/2016 Visiting researcher, University of California, Berkeley, CA, USA.
- 02/2016 Visiting researcher, Vrije Universiteit Brussel, Belgium.
- 11/2015 Visiting researcher, MIT, Cambridge, MA, USA.

- 11/2015 Visiting researcher, University of Louvain, Belgium.
- 03/2014 Visiting researcher, The Irish Software Engineering Research Centre (Lero), Ireland.
- 12/2012 Visiting researcher, National Institute of Informatics, Tokyo, Japan.

TEACHING

- Autumn 2014/15 **Lecturer, Department of Computing (DoC), Imperial College London (IC).**
 Concurrency for second year Computing and Joint Maths and Computing (JMC).
 Delivering lectures, supervising lab sessions, writing course material and setting and marking exam.
 4 lectures and 2 tutorials, number of students: 139.
 Student evaluations (55 entries):
The lecturer explained the material well
Definitely Agree = 31%, Mostly Agree = 38%, Neither Agree or Disagree = 10%,
Mostly Disagree = 1%, Definitely Disagree 0%, Not applicable = 18%.
- Autumn 2013/14 **Lecturer, DoC, IC.**
 Concurrency for second year Computing and JMC.
 Delivering lectures, supervising lab sessions, writing course material and setting and marking exam.
 8 lectures and 4 tutorials, number of students: 135.
 Student evaluations (59 entries):
The lecturer generated interest and enthusiasm
Definitely Agree = 36%, Mostly Agree = 37%, Neither Agree or Disagree = 15%,
Mostly Disagree = 3%, Definitely Disagree = 0%, Not Applicable = 8%.
- Autumn 2012/13 **Lecturer, DoC, IC.**
 Concurrency for second year Computing and JMC.
 Delivering lectures, supervising lab sessions, writing course material and setting and marking exam.
 9 lectures and 7 tutorials, number of students: 143.
 Student evaluations (69 entries):
The structure and delivery of the lectures
Very Good = 42%, Good = 43%, Satisfactory = 9%, Poor = 1%, Very Poor = 0%,
No response = 4%.
- Spring 2011/2012 **Lecturer, DoC, IC.**
 Concurrency for second year Computing and JMC.
 Delivering lectures, supervising lab sessions, writing course material and setting and marking exam.
 7 lectures and 3 tutorials, number of students: 133.
 Student evaluations (58 entries):
The structure and delivery of the lectures
Very Good = 53%, Good = 35%, Satisfactory = 6%, Poor = 0%, Very Poor = 0%,
No response = 3%.

Spring 2010/2011 **Lecturer and course leader, DoC, IC.**
Software Engineering for MSc in Computing.
Delivering lectures and supervising lab sessions.
4 lectures and 3 tutorials, number of students: 30.

Spring 2009 **Invited lecturer, DoC, IC.**
Software Engineering for MSc in Computing.
Delivering lectures and supervising lab sessions.
1 lecture and 3 tutorials, number of students: 35.

TEACHING: TUTORIAL SUPPORT

2011–2012 Prolog, Second year undergraduates in Computing, DoC, IC.
2011–2012 Prolog, MSc in Advanced Computing, DoC, IC.
2010–2011 (Course leader), Concurrency, Second year undergraduates in Computing and JMC, DoC, IC.
2009–2011 Logic, First year undergraduates in Computing, DoC, IC.
2009–2010 Concurrency, Second year undergraduates in Computing and JMC, DoC, IC.
2003–2004 Networking and Data Communication, Advanced C programming, C++, Visual Basic, Department of Information Technology, King Saud University.

SUPERVISION: PHD

10/2016–09/2019 Davide Cavezza, HiPEDS CDT Scholarship,
Title: *Generalized Reactivity (1) Assumption Refinement.*
01/2016–12/2019 Pawel Gomoluch, Joint FBK and Departmental Scholarship,
Title: *Learning Domain-independent Planning Heuristics.*

SUPERVISION: STUDENT PROJECTS

03/2016–09/2016 Davide Cavezza (MRes individual project, Distinction),
Title: *Interpolation-based GR(1) Assumption Refinement.*
06/2016–08/2016 Dimitar Markovski, King's College London, UK (UROP),
Title: *Causal Reasoning Through SAT solving,*
Co-supervisor: Dr Hana Chockler, King's College London, UK.
01/2016–05/2016 Faisal Aleissa (MSc ISO),
Title: *Machine Learning for Context-driven Digital Investigations.*
01/2016–05/2016 Piyawat Lertvittayakumjorn, (MSc ISO, Distinction),
Title: *Machine Learning Advances in Automatic Software Repair.*
01/2016–05/2016 Junning Deng (MSc ISO),
Title: *Machine Learning for Digital Evidence Collection.*
11/2015–06/2016 Cherie Pun (MEng individual project),
Title: *Can I Trust You?*
07/2015–09/2015 Junyuan Zhang, Tsinghua University, China (UROP),
Title: *Building an Automated Software Repair System.*
06/2015–09/2015 Xiaoquan Ge (MSc individual project),
Title: *Crime Scripting: Composition, Analysis and Verification.*

- 10/2014–06/2015 Oana Cocarascu (MEng individual project, Distinction),
Title: *A Machine Learning Approach to Offenders' Behaviour Analysis*.
- 10/2014–06/2015 Jan Povala (MEng individual project, Distinction),
Title: *Learning Emergent Patterns in High Volume Crimes*.
- 10/2014–06/2015 Jean Cassademont (MEng individual project),
Title: *Building a Smart Eco-system for Data Centres*,
Co-supervisor: Dr Luke Dickens.
- 10/2014–06/2015 James Cumming (MEng individual project, Distinction),
Title: *Boom Trader: A Currency Trading Platform*,
Co-supervisor: Dr Luke Dickens.
- 10/2013–06/2014 Michael Krestas (MEng individual project),
Title: *Automatic Classification Of High-Volume Crime-Related News Articles*,
Collaborator: College of Policing.
- 10/2013–06/2014 Kavindu L. Anthony Hettige Diyees (MEng individual project, Distinction),
Title: *Automatic Detection of Conflicts in Requirement Specifications*.
- 01/2012–03/2012 Tanuj Srivastava, Shailesh, Ghimire Kavindu Diyees, Chandra Parajuli and Nayan Chudasama (MEng third year group project, Distinction),
Title: *ACE: An Intelligent Aggregation System for Policing*,
Collaborator: College of Policing.
- 10/2011–06/2012 Anthony Amiri (MEng individual project),
Title: *Discrete Data Synchronisation*,
Co-supervisor: Prof. Alex Wolf.
- 06/2011–09/2011 Calin-Rares Turliuc (MSc individual project, Distinction, Best project nominee),
Title: *ProbPoly—A Probabilistic Inductive Logic Programming Framework with Application in Model Checking*,
Co-supervisor: Prof. Alessandra Russo.
- 10/2009–06/2010 Diana Ramchandani (MEng individual project, Distinction, Best project nominee),
Title: *Refining Labelled Transition Systems Using Scenario-Based Specifications*,
Co-supervisor: Prof. Alessandra Russo.

JOURNAL EDITORIAL BOARD & GUEST EDITORSHIP

- 2017–present **Review Board**, IEEE Transactions on Software Engineering.
- 2014–present **Deputy Editor-in-Chief**, IET Software.
- 2014–present **Review Editorial Board**, Frontiers in Computational Intelligence.

PROGRAMME COMMITTEE MEMBERSHIP

- 2018 ICSE main track, ICSE NIER track.
- 2017 ICSE main track, SEFM, International Requirements Engineering Conference (RE) RE@Next! track, ILP, International Symposium on Software Engineering for Adaptive and Self-Managing System (SEAMS@ICSE), International Workshop on Engineering Collective Adaptive Systems (ECAS@SASO).

- 2016 ICSE poster track, SEFM, ILP, International Conference on Principles of Knowledge Representation and Reasoning (KR), International Conference on Mobile Multimedia Communications (Mobimedia).
- 2015 SEFM, International Conference on Formal Aspects of Component Software (FACS), International Workshop on Learning and NonMonotonic Reasoning (LNMR@LPNMR), International Workshop on User-Oriented Logic Programming (IULP@ICLP).
- 2014 SEFM, RE.
- 2013 LNMR@LPNMR.
- 2012 ILP.
- 2011 Festschrift of Marek Sergot.
- 2010 Second International Workshop on Requirements Analysis (IWRA).

REVIEWER

- 2017 IEEE TSE, IET Software Journal.
- 2016 ICLP.
- 2015 IEEE TSE, Journal of Machine Learning and Cybernetics.
- 2014 IEEE TSE , FASE, Frontiers in Bioengineering and Biotechnology.
- 2013 IEEE TSE.
- 2012 IET Software Journal, IEEE TSE, ICSE.
- 2009 ICSE.

WORKSHOP, PANEL AND SEMINAR ORGANIZATION

- 2017 Co-organizer, 1st International Workshop on *Software Engineering and Digital Forensics*, Co-located with the 11th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, Paderborn, Germany.
- 2016 Co-organizer, 1st International Workshop on *Requirements Engineering for Investigating and Countering Crime*, Co-located with the 24th IEEE International Requirements Engineering Conference, Beijing, China.
- 2015 Organizer, Thematic panel *From Radicalization to Terrorism: The Role of Individuals, Contexts and Causal Mechanisms*, 71st Annual Meeting of ASC.
- 2014 Organizer, Thematic panel *Linking Data and Theories in Criminology: Inference Problems, Methods and Challenges*, 70th Annual Meeting of ASC.
- 2014 Co-organizer, Workshop on *Formal Methods for Security and Crime Prevention*, DoC, IC.
- 2011 Co-organizer and program chair, *1st International Workshop on Machine Learning Technologies in Software Engineering*, co-located with 26th IEEE/ACM International Conference on Automated Software Engineering, Lawrence, Kansas, USA.
- 2011 Organizer, British Computing Society (BCS) Requirements Engineering Specialist Group (RESG) Workshop for Early Researchers in Requirements Engineering.

- 2011–2013 Organizer, Distributed Software Engineering (DSE) seminar series SEMAL, DoC, IC.
- 2009–2010 Co-organizer, RESG workshop for PhD students.
- 2008–2011 Organizer, RESG annual group meeting.
- 2008–2009 Organizer, DSE group seminars for PhD students and RAs.

PHD EXAMINATION

- 04/2015 Second opponent of thesis *Timed Temporal Logic Model Checking of Real-Time Systems: A Rewriting-Logic-Based Approach*, Daniela Lepri, University of Oslo, Norway.

ADMINISTRATION AND OTHER SERVICES

- 12/2016 Speaker, Springboard Women’s Development Programme, IC.
- 2015 School outreach organizer and volunteer, DoC Outreach Programme, IC.
- 2014 Panelist, PhD careers event, DoC, IC.
- 2014 Judging panelist, Google Poster Competition, DoC, IC.
- 2013–present ATHENA select committee, DoC, IC.
- 2013 Speaker, Springboard Women’s Development Programme, IC.
- 2011–present Interview panelist, Postdoctoral Development Centre, IC.
- 2011–2014 Qualified emergency first aid contact, IC.
- 2011–2013 RA representative, DoC, IC.
- 2011 Buddy volunteer, IntoUniversity Outreach Programme, IC.
- 2009–present Post-doctoral officer, BCS RESG.
- 2007–2009 PhD student liaison, BCS RESG.
- 2008 Steering committee, IDEA League ICT Summer School “Next Generation ICT for the Next Generation”.