

Nomination for Alessio Lomuscio to be elected to the IFAAMAS Board

Dr Alessio Lomuscio (born in 1969) is Reader in Logic for Multi-Agent Systems (MAS) at the Department of Computing at Imperial College London, UK. He received his Laurea in Computer Engineering at Politecnico di Milano in 1995 and his PhD at the University of Birmingham in 1999 defending a thesis on formal aspects of knowledge in multi-agent systems. The PhD external examiner was Prof J.J Meyer (Utrecht). His first post-doc position (1999-2000) was at Queen Mary Westfield working with Mike Wooldridge and Nick Jennings on automatic negotiation in multi-agent systems settings. He was Research Fellow at Imperial College London between 2000 and 2002 working with Marek Sergot on deontic aspects of multi-agent systems. He was appointed as Lecturer at King's College London in 2002 and Senior Lecturer at University College London in 2004. He returned to Imperial College London in 2006 and was promoted to Reader in 2008.

Alessio's research interests concern the use of computational-logic for the specification and verification of multi-agent systems. He is best known for his studies on temporal-epistemic languages for the specification of multi-agent systems, and for his work on verification of multi-agent systems. Specifically on this aspect, he has been prominent since 2002 in advocating and pursuing model checking as a technology for the verification of MAS, a topic now of some prominence at AAMAS and elsewhere. Among his contributions on the subject are methodologies for using BDDs, bounded model checking, abstraction, partial order reduction, and symmetry reduction for the symbolic verification of multi-agent systems. An in-house open-source model checker for the verification of MAS was made available to the MAS community since 2005 and is regularly updated and extended. With colleagues he has applied verification technology in the areas of web-services, security protocols verification, autonomous vehicles, network protocols.

Since 1998 Alessio has co-authored 4 papers at ATAL (before it merged into AAMAS) and 20 papers at AAMAS. He has participated yearly to the AAMAS conferences and workshops since the first in Bologna. He has served in various roles on the AAMAS board including Senior Programme Committee member and Programme Committee Member. He has given seven lectures at the yearly European Agent Systems Summer Schools.

As a member of the board, Alessio would work to ensure the AAMAS community's research was visible to other communities, and so build further interest in our area. He is already active in disseminating agent-based computing to other subjects, publishing research papers in other prominent conferences and areas including ECAI, AAAI, IJCAI (artificial intelligence), ICWS, ICSOC (web-services), CAV, ATVA, SEFM (formal verification), KR, TARK (knowledge representation and reasoning). Over the years he has co-authored approximately 100 papers, served on 70 programme committees, co-chaired 7 thematic workshops, and given over 20 invited talks on the topics above.