

Nicola Gatti

Position Statement for IFAAMAS Officer Elections 2016

Short bio

I am an Associate Professor at the Department of Electronics, Computer Science, and Bioengineering (DEIB) at the Politecnico di Milano, Italy. I obtained my PhD in 2005 for work on negotiation-based approaches for decentralized control in multi-agent systems. Since 2006 my research focuses on theoretical and application-oriented topics related to multi-agent systems and AI, including computational game theory, computational mechanism design, and multi-agent learning. I was awarded as the *Best Italian Young Researcher on Artificial Intelligence* in 2011 by the Italian Association for the Artificial Intelligence (AIxIA) and I have recently founded the *Game Theory and Computation Group* at Politecnico di Milano. I have also founded two startups Youmove.me (developing a social mobility application) and AdsMove (developing algorithms for computational mobile advertising). In 2013, I visited the Computer Science Department of Carnegie Mellon University, USA. I am also active in education, teaching for the first time in my country a course on *Algorithmic Game Theory* (since 2008, and named *Economics and Computation* since 2015) and *Web and Internet Economics* (since 2014). I am also involved in important industrial projects, e.g. since 2015 my research group automatized the online pricing of flight tickets on *Lastminute.com*. The complete list of publications is available at the webpage <http://home.deib.polimi.it/ngatti>.

My involvement with the AAMAS community

I attended AAMAS 9 times since 2002, publishing in all of those (with 8 full papers, 15 short papers, and 1 demo paper, in collaboration with colleagues from Politecnico di Milano, University of Southampton, CMU, UMass, INRIA, Teasside University, Czech Technical University in Prague, Aachen University). I served as PC member or SPC member every year since 2009 and I served as mentor at the AAMAS Doctoral Mentoring. I delivered a tutorial titled *Security Games* with Christopher Kiekintveld (University of Texas at El Paso, USA) and Manish Jain (University of Southern California, USA) at AAMAS in 2011 and a tutorial titled *Equilibrium Computation* with Troels Bjerre Sørensen (University of Warwick, UK) at AAMAS in 2012. I taught *Automatic Negotiation in Electronic Markets* at EASSS (European Agent Systems Summer School) in 2008, 2009, and 2010 with Maria Fasli (University of Essex, UK). Furthermore, I have been PC member of a number of workshops held in conjunction of AAMAS and I received best paper awards in AAMAS related conferences (ACM IAT).

Other types of service to the community

I regularly served as PC member or SPC member in other related conferences, such as AAAI (since 2011), IJCAI (since 2009), ACM EC (2012 and 2014), and IEEE/WIC/ACM IAT (since 2009) and I have been editorial board member of JAIR since 2011. I delivered two tutorials at AAAI in 2011 and 2013. I organized the workshop on Algorithmic Game Theory at IJCAI 2015 and 2016 together with Carmine Ventre (Teasside University), Reshef Meir (Technion), and Georgios Chalkiadakis (Technical University of Crete).

How I can serve on the IFAAMAS board

I will be an active member of the IFAAMAS board, keen to maintain the outstanding academic rigor of the work that appears at AAMAS. Furthermore, I will mainly focus my efforts for two goals. First, AAMAS scientific community currently appears as a collection of different and independent scientific sub-disciplines that in many situations present important difficulties in interacting each other, for example, in AAMAS conference cases in which papers are rejected due to relevance are not unusual. The same holds when AAMAS is seen as a scientific discipline, being structured as a number of almost completely different methodologies. If elected, the first goal I will pursue is to foster a better integration of the sub-communities and of the related methodologies by, for example, proposing AAMAS special sessions and panels on hybridization techniques, promoting demos in which different methodologies are employed, and proposing area chairs for supporting the review process. Second, the success of a scientific discipline is usually due to the possibility of developing new challenging applications. If elected, the second goal I will pursue is to promote the adoption of AAMAS methodologies in industrial applications, especially in new startups, also promoting special meetings of startup developers during AAMAS conference.