FPDAPP - Workshop on Future Perspective of Decentralised Applications

Workshop on Future Perspectives of Decentralized Applications (FPDAPP)

Workshop Description

Blockchain technologies (BCTs) make agreement amongst untrusted parties possible, without the need for certification authorities. Proposed frameworks have been put forward in sector as diverse as finance, health-care, notary, intellectual property management, identity, provenance, international cooperation, social good, and security to cite but a few. Smart contracts, i.e. self-enforcing agreements in terms of executable software running on blockchains, have been developed in several contexts. Such an under-definition computational model introduces innovative aspects, such as the economics and trust of the decentralised computation relying on the shared contribution of peers and their decentralised consensus.

The first edition of the FPDAPP workshop was held in Turin, Italy, in conjunction with the Euro-Par conference. FPDAPP aimed to foster the cross-fertilisation between the blockchain and the distributed/parallel computing communities, which can strongly contribute to each other development.

FPDAPP workshop rigorously explored and evaluated the potentiality of such novel decentralised frameworks and applications. Of particular interest was the evaluation and comparison of killer applications that are showing evidence of how Distributed Ledger Technologies can revolutionize their domains or developing new application areas. Evaluation and comparisons are broadly understood, form technical aspects regarding the novel decentralised computer to the possible impact on society, business and the public sector.

This year, we have received 10 articles for review. After a thorough peer-reviewing process focused on quality, innovative contribution, applicability to real world scenarios, we have selected 6 articles for presentation at the workshop. Each paper has been revised by at least 3 independent reviewers, members of the program committee. The final decision on the acceptance of the papers was the result of the reviewers' discussion and agreement, leading to a high quality of the selected articles, despite the acceptance ratio.

In addition to paper presentations, Massimo Morini (Banca IMI) and Nadia Fabrizio (Cefriel) gave two very interesting invited talks, while during the networking session all attendees (more than 35 during all the day) had the opportunity to share their ideas and activities and look for future collaborations. In the last session of the workshop we organized a panel on consensus mechanisms and decentralized governance. Panelist included the Turing Award Silvio Micali (MIT), Nadia Fabrizio (Cefriel), Massimo Morini (Banca IMI). The panel has been introduced by Paola Pisano, Deputy Mayor for Innovation and Smart City, City of Torino.

Finally, we would like to thank all members of the FPDAPP Program Committee, the speakers, and the participants, as well as Euro-Par for hosting our new community and the workshop general chairs for the provided support.

Organization

Program Chairs

Andrea Bracciali   Stirling University, UK
Claudio Schifanella   University of Turin, Italy

Program Committee

Marcella Atzori   University College of London/Ifin Sistemi
Stefano Bistarelli   University of Perugia, Italy
Guido Boella   University of Turin, Italy
Maple Carsten   University of Warkwick, UK
Boris Düdder   University of Copenhagen, Denmark
Fritz Henglein   University of Copenhagen, Denmark
Stefano Leone   Deloitte, Italy
Patrick McCorry   University College of London, UK
Carlos Molina   University of Cambridge, UK
Immaculate Motsi   University of Warkwick, UK
Jack Jackson   Everledger, UK
Petr Novotny   IBM, USA
Federico Pintore   University of Trento, Italy
Henrique Rocha   Inria, France
Massimiliano Sala   University of Trento, Italy
Thomas Sibut Pinote   Inria, France
Andrea Vitaletti   Sapienza University of Rome, Italy
Aleš Zamuda   University of Maribor, Slovenia
Santiago Zanella-Beguelin Microsoft Research