

# Preface

This volume in the *Static and Dynamic Game Theory: Foundations and Applications* series is a collection of the papers of the NetGCoop 2016 conference. The event took place in the magnificent old city of Avignon, France, November 23–25, 2016, and was hosted by the University of Avignon.

Network control and optimization have been of increasing importance in many networking application domains, such as mobile and fixed access networks, computer networks, social networks, transportation networks, and more recently electricity grids and biological networks.

Both conceptual and algorithmic tools are needed for efficient and robust control operation, for performance optimization, and for better understanding the relationships between entities that may be cooperative or act selfishly, in uncertain and possibly adversarial environments.

The goal of this international conference is to bring together researchers from different areas with theoretical expertise in game theory, control, and optimization and with applications in the domains listed above.

During the conference, three keynote talks were given by well-known researchers: Jean Bernard Lasserre (the moment-LP and moment-SOS approaches in polynomial optimization and some other applications), Patrice Marcotte (bilevel optimization: the good and the less good, illustrated through four applications), and Sergiu Hart (smooth calibration, leaky forecasts, finite recall, and Nash dynamics). There were also 21 paper presentations, 12 issued from regular submitted papers and 9 were invited. Both groups passed a review process.

The success of the conference was largely due to the chairs and TPC members, and we thank them heartily. We would also like to thank our sponsors: Orange, LINC, PGMO (FMJH EdF), UAPV, GDR 2932 (Théorie des jeux: Modélisation Mathématique et Applications), and the University of Trento. We also thank the Springer team, Benjamin Levitt and Christopher Tominich, for their confidence, help, and kindness.

Finally, we thank the contributors for submitting high-quality papers that made this event a success, the presenters, and the participants in the conference. We hope the conference was pleasant for all of them.

Gif-sur-Yvette, France  
Avignon cedex 9, France  
Tel Aviv, Israel  
November, 2016

Samson Lasaulce  
Tania Jimenez  
Eilon Solan

Network Games, Control, and Optimization

Proceedings of NETGCOOP 2016, Avignon, France

Lasaulce, S.; Jimenez, T.; Solan, E. (Eds.)

2017, XIV, 234 p. 49 illus., 38 illus. in color., Hardcover

ISBN: 978-3-319-51033-0

A product of Birkhäuser Basel