

Preface

The International Workshop on Complex Networks-CompleNet (www.complenet.org) was initially proposed in 2008, and the first workshop took place in 2009 in Catania. The initiative was the result of efforts from researchers from the (i) *BioComplex Laboratory in the Department of Computer Sciences at Florida Institute of Technology, USA*, and the (ii) *Dipartimento di Ingegneria Informatica e delle Telecomunicazioni, Università di Catania, Italy*. CompleNet aims at bringing together researchers and practitioners working on complex networks or related areas. In the past two decades we have indeed witnessed an exponential increase in the number of publications in this field. From Biology to Computer Science, from Economics to Social Systems, Complex Networks are becoming pervasive in many fields of science. It is this interdisciplinary nature of complex networks that CompleNet aims to address. CompleNet 2016 was the seventh event in the series and was hosted by the *Université de Bourgogne, France*, from March 23 to 25, 2016.

This book includes the peer-reviewed list of works presented at CompleNet 2016. We received an unprecedented number of 121 submissions from 20 countries. Each submission was reviewed by at least 3 members of the Program Committee. Acceptance was judged based on the relevance to the symposium themes, clarity of presentation, originality and accuracy of results and proposed solutions. After the review process, 22 papers and 6 short papers were selected to be included in this book.

The 28 contributions in this book address many topics related to complex networks and have been organized into seven major groups: (1) Theory of Complex Networks, (2) Multilayer networks, (3) Controllability of networks, (4) Algorithms for networks, (5) Community detection, (6) Dynamics and spreading phenomena on networks, (7) Applications of Networks.

We would like to thank the Program Committee members for their work in promoting the event and refereeing submissions. We are grateful to our speakers: Alain Barrat (Aix-Marseille University, France), Ernesto Estrada (University of Strathclyde, Scotland), Renaud Lambiotte (University of Namur, Belgium),

Giovanna Miritello (Zed Worldwide, Spain), Nicola Perra (University of Greenwich, England), Marco Quaggiotto (ISI Foundation, Italy), José Javier Ramasco (IFISC, CSIC-UIB, Spain), Balazs Vedres (Central European University, Hungary), Suzy Moat (University of Warwick, England); their presentation is one of the reasons CompleNet 2016 was such a success.

Special thanks also go to Chantal Cherifi, Eric Leclercq, Sylvain Rampacek, Marinnete Savonnet, Olivier Togni, from the Université de Lyon and Université de Bourgogne, for their help in organizing CompleNet 2016.

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