

# Proceedings of the Eighth International Conference on Probabilistic Graphical Models

Volume 52 of the JMLR Workshop and Conference  
Proceedings:

PGM 2016, Lugano, 6–9 September 2016

**PGM** 2016   
Lugano



# Conference Organization

## Program Chairs

Alessandro Antonucci

Giorgio Corani

Cassio P. de Campos

## Local Organization

Alessandro Antonucci

Giorgio Corani

David Huber

Mauro Scanagatta

## Program Committee

Tameem Adel

Davide Bacci

Mark Bartlett

Alessio Benavoli

Concha Bielza

Janneke Bolt

Gavin Brown

Cory Butz

Andrés Cano

Arthur Choi

Barry Cobb

Guido Consonni

Fabio Cozman

James Cussens

Adnan Darwiche

Jasper De Bock

Luis de Campos

Rodrigo de Salvo Braz

Nicola Di Mauro

Marek Druzdzel

Ad Feelders

Jose Gámez

Manuel Gómez-Olmedo

Arjen Hommersom

Alexander Ihler

Mikko Koivisto

Johan Kwisthout

Helge Langseth

Pedro Larrañaga

Philippe Leray

José Lozano

Peter Lucas

Manuel Luque

Brandon Malone

Anders Madsen

Denis Mauá

Andrés Masegosa

Radu Marinescu

Serafín Moral

Ann Nicholson

Thorsten Ottosen

Thomas Dyrre Nielsen

José Peña

José Puerta

Silja Renooij

Antonio Salmerón

Marco Scutari

Kostantinos Sechidis

Prakash Shenoy

Milan Studený

Luis Enrique Sucar

Joe Suzuki

Maomi Ueno

Linda van der Gaag

Jiří Vomlel

Pierre-Henri Wuillemin

Yang Xiang

Changhe Yuan

Marco Zaffalon

Yun Zhou

## **Organizational Support**

We gratefully acknowledge organizational support from IDSIA (Istituto Dalle Molle di Studi sull'Intelligenza Artificiale), USI (Università della Svizzera Italiana), and SUPSI (Scuola Universitaria Professionale della Svizzera Italiana).

## **Financial Support**

We gratefully acknowledge financial support from the Artificial Intelligence Journal (Elsevier), from the conference sponsorship program of the European Coordinating Committee for Artificial Intelligence (ECCAI), from the Science and Technology (S+T) center of technology of the Swiss Department of Defense, and from the Bayesia S.A.S. software development company, and from the HUGIN Expert A/S company.

## Preface

The biennial International Conference on Probabilistic Graphical Models (PGM) brings together researchers interested in all aspects of graphical models for probabilistic reasoning, decision making, and learning.

Previous PGM meetings were held in Cuenca (2002), Leiden (2004), Prague (2006), Hirtshals (2008), Helsinki (2010), Granada (2012) and Utrecht (2014). The eighth edition took place in Lugano (Switzerland) on September 6–9, 2016. For this edition we changed the name of the conference from *European Workshop* to *International Conference*. This reflects the fact that PGM draws interest also from outside Europe, and that it has been publishing peer-reviewed proceedings since its first edition.

The proceedings of this edition are published for the first time within the series *JMLR: Workshop and Conference Proceedings*. This is by itself an acknowledgment of the scientific quality of the papers at PGM.

For the eighth edition of PGM, there were 69 submissions; this was a record for PGM. We assigned each paper to three members of the program committee, adopting, again for the first time, a double-blind reviewing approach. We accepted 46 papers (about 66% of the submissions). We would like to thank the 60 program committee members for their outstanding job during the reviewing process.

Besides the technical program, keynote lectures were given by three distinguished invited speakers: Guido Consonni (Università Cattolica del Sacro Cuore), Fabio G. Cozman (Universidade de São Paulo), and Adnan Darwiche (UCLA).

Moreover, two tutorials further enriched the program. The first was delivered by Cassio P. de Campos (Queen’s University Belfast) and Johan Kwisthout (Radboud University). The second tutorial was given by Nicola Di Mauro and Antonio Vergari (Università degli Studi di Bari).

The Editorial Team:

Alessandro Antonucci  
Istituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA)  
6928 Manno, Switzerland  
[alessandro@idsia.ch](mailto:alessandro@idsia.ch)

Giorgio Corani  
Istituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA)  
6928 Manno, Switzerland  
[giorgio@idsia.ch](mailto:giorgio@idsia.ch)

Cassio P. de Campos  
School of Electronics, Electrical Engineering and Computer Science  
Queen's University Belfast, United Kingdom.  
[c.decampos@qub.ac.uk](mailto:c.decampos@qub.ac.uk)