

# Preface

For the first time, the International Joint Conference on Artificial Intelligence (IJCAI) is being held jointly with the European Conference on Artificial Intelligence (ECAI). In addition, IJCAI-ECAI is, for the first time this year, part of a broader 11-day Federated Artificial Intelligence Meeting (FAIM).

IJCAI-ECAI-2018 received a record number of 3470 paper submissions (a 37% increase over IJCAI-2017, itself a record breaker), of which we accepted 710 (20.5%). All papers have an oral presentation and are also displayed as posters at the conference venue. Almost all papers (more than 97%) received four reviews. The Program Committee consisted of 50 area chairs, 500 senior program committee members, 2037 program committee members, and 405 review assistants: this makes a total of 2992 researchers, who did careful and rigorous reviews, discussed the papers, and came to a recommendation. Authors had the opportunity to provide feedback to their reviews, which was then analysed by the reviewing team at the time of discussion.

The special theme of this IJCAI-ECAI is the evolution of the contours of AI. 26 papers were submitted to a special track on this theme, 6 of which were accepted. One of the invited talks is also focused on this theme.

As in previous years, we have a journal track: these proceedings include 26 abridged versions of papers that have been published in AIJ and JAIR without having ever been presented at a major conference. Again, as in previous years, we have a sister conference best paper track: these proceedings include 46 revised versions of award-winning papers from some of the top-level specialised AI conferences. And for the third time, we have early career spotlight talks (24 this year) given by outstanding researchers who are between 5 to 10 years after their PhD; most of their talks come with a paper in the proceedings, providing a synthesis of their past and current research.

For the first time at IJCAI and ECAI, we have a survey track, that provides an opportunity for AI researchers who are expert on a topic to give a talk presenting a synthesis survey of the topic and to publish a paper in the proceedings. We received 44 submissions, of which 16 were accepted. We also have, as usual, a demo track; for the first time, demonstrations can be presented in the traditional way, or in “demo talks” in regular conference rooms, or both. These proceedings include short papers describing the accepted demos.

We have eight outstanding invited speakers, two of whom are joint with the other conferences of the Federated AI Meeting: Joyce Chai (FAIM speaker), Josh Tenenbaum (FAIM speaker), Jean-François Bonnefon (EurAI speaker), Hector Geffner, Nicole Immerlica, Danica Kragic, Yann Le Cun, and Max Tegmark. We also have talks by the winners of these prestigious awards: the 2017 IJCAI Award for Research Excellence (Andy Barto), the 2018 IJCAI Award for Research Excellence (Jitendra Malik), the 2018 John McCarthy Award (Milind Tambe), and the 2018 Computers and Thought Award (Stefano Ermon).

A conference the size and scope of IJCAI-ECAI-2018 requires tremendous effort from many people, to whom we are very thankful. First of all, the authors, who submitted the best of their work to this conference. Second, the program committee members, who made an effort to cope with the deadlines and the heavy load of work. Third, all the people who helped in the different stages of the review process, especially Francisco (Tito) Cruz and Marc Pujol, who helped at all stages of the submission, review, and program construction processes, and who spent weeks performing paper formatting quality control and giving professional feedback to the authors. Many others have helped in different phases of the process: Thomas Preuss, who gave constant technical support on ConfMaster; Laurent Charlin and Richard Zemel, who made the Toronto Paper Matching System (TPMS) available for the paper bidding phase; Blai Bonet, whose paper-to-reviewer software was used once again; and Marta Abad, who produced the program brochure.

In addition to those whose work made the content of the conference possible, many worked to make the operation of the conference possible. The local arrangements committee (LAC) did a tremendous job for which we are very thankful. The LAC was chaired by Fredrik Heintz. The local arrangements require significant effort and we are very thankful to all the LAC members Helena Lindgren (Social Events Coordinator and Publicity Co-Chair), Mikael Hansson (Publicity Chair), Christian Guttman (Sponsorship Co-Chair), Lars Mollberg (Sponsorship Co-Chair), Patric Jensfelt (Student Volunteer Chair), Ronnie Johansson (Exhibition Chair), Eva Blomqvist and Robin Keskisärkkä (Workshop and Tutorial Coordinators), Anders Holst (Industry Days Coordinator), Rafiq Muhammad (Job Match Coordinator), Anders Kofod-Petersen and Kristinn Thorisson (Nordic Publicity Co-Chairs), Jacek Malec (Finance Chair), and Andreas Järvelä (Web Master). Thank you!

Finally, Vesna Sabljakovic-Fritz, Executive Secretary for IJCAI, deserves a huge thank you! She knows everything about IJCAI, its history, and its practices, and she is always on top of everything. It would have been impossible for us to manage without her.

Organising IJCAI-ECAI-2018 has been a great experience, and we certainly hope that the conference will be a great experience for everyone who participates.

- Jérôme Lang (Program Chair)

- Jeffrey S. Rosenschein (Conference Chair)

# IJCAI-18 Conference Organisation

## Conference Committee

### Conference Chair

Jeffrey S. Rosenschein (The Hebrew University of Jerusalem, Israel)

### Program Chair

Jérôme Lang (LAMSADE, CNRS, France)

### Local Arrangements Committee Chair

Fredrik Heintz (Linköping University, Sweden)

### EurAI President

Gerhard Lakemeyer (RWTH Aachen University, Germany)

### IJCAI Executive Secretary

Vesna Sabljakovic-Fritz (Vienna University of Technology, Austria)

### IJCAI Secretary-Treasurer

Bernhard Nebel (Albert-Ludwigs-Universität Freiburg, Germany)

## Track Chairs

### Workshop Chair

Kevin Leyton-Brown (University of British Columbia, Canada)

### Tutorial Chair

Bo An, (Nanyang Technological University, Singapore)  
Meghyn Bienvenu, (CNRS, France)

### Special track on the evolution of contours of AI

Ronen Brafman (Ben-Gurion University, Israel)

### Survey track

Eyke Hüllermeier (Universität Paderborn, Germany)  
Nicolas Maudet (Université Pierre et Marie Curie, France)

### Demo track

Paul Weng (University of Michigan-Shanghai Jiao Tong University Joint Institute, China)

### Doctoral Consortium

Maria Gini (University of Minnesota, US)  
Judy Goldsmith (University of Kentucky, US)

### Journal Track

Kobi Gal, (Ben-Gurion University, Israel)

## Sister Conference Best Paper Track

Ariel Felner (Ben-Gurion University, Israel)  
Jie Tang (Tsinghua University, China)

## Robot Exhibition

Jonas Kvarnström, (Linköping University, Sweden)  
Federico Pecora, (Örebro University, Sweden)

## Video Competition

Peng Cui, (Tsinghua University, China)  
Marija Slavkovic, (University of Bergen, Norway)

## Advisory Committee

Bo An (Nanyang Technological University, Singapore)  
Elisabeth André (University of Augsburg, Germany)  
Ana Bazzan (Universidade Federal do Rio Grande do Sul, Brazil)  
Joyce Y. Chai (Michigan State University, USA)  
Virginia Dignum (TU Delft, The Netherlands)  
Kobi Gal (Ben Gurion University of the Negev, Israel)  
Zhiguo Gong (University of Macao, Macao, P.R. China)  
Jörg Hoffmann (Saarland University, Germany)  
Fei-Fei Li (Stanford University, USA)  
Devi Parikh (Georgia Tech, USA)  
David Parkes (Harvard University, USA)  
Maria Polukarov (King's College London, UK)  
Roland Yap Hock Chuan (National University of Singapore, Singapore)

## Local Arrangements Committee

### Local Arrangements Committee Chair

Fredrik Heintz (Linköping University)

### Finance Chair

Jacek Malec (Lund University)

### Sponsorship Co-Chairs

Christian Guttman (Karolinska Institutet and Nordic AI Institute)  
Lars Mollberg (Ericsson)

### Workshop and Tutorial Coordinators

Eva Blomqvist (Linköping University)  
Robin Keskisärkkä (Linköping University)

### Social Events Coordinator and Publicity Co-Chair

Helena Lindgren (Umeå University)

**Student Volunteer Chair**

Patric Jensfelt (KTH Royal Institute of Technology)

**Publicity chairs**

Mikael Hansson (Umeå University)

**Nordic Publicity co-chairs**

Anders Kofod-Petersen (Alexandra Instituttet, Denmark and NTNU, Norway)

Kristinn Thorisson (Reykjavik University and Icelandic Institute for Intelligent Machines)

**Industry Days Coordinator**

Anders Holst (RISE SICS and KTH Royal Institute of Technology)

**Exhibition Chair**

Ronnie Johansson (Swedish Defence Research Agency, FOI)

**Job Match Coordinator**

Rafiq Muhammad (Karolinska Institutet)

**Web Master**

Andreas Järvelä (Linköping University)

**Local Congress Bureau**

Meetagain

# Program Committee

## Main Track Program Committee

### Area Chairs

Shivani Agarwal (University of Pennsylvania, USA)  
Christian Bessière (CNRS, University of Montpellier, EU)  
Isabelle Bloch (LTCI, Télécom ParisTech, Université Paris-Saclay, EU)  
Blai Bonet (Universidad Simon Bolivar, Venezuela)  
Craig Boutilier (Google, USA)  
Emma Brunskill (Stanford University, USA)  
Longbing Cao (University of Technology Sydney, Australia)  
Vincent Conitzer (Duke University, USA)  
Marie desJardins (University of Maryland, Baltimore County, CSEE, USA)  
Fabio Gagliardi Cozman (Universidade de Sao Paulo, Escola Politecnica, Brazil)  
Ran El-Yaniv (Technion – Israel Institute of Technology, Israel)  
Alan Paul Fern (Oregon State University, USA)  
Giuseppe de Giacomo (Sapienza Università di Roma, EU)  
Jonathan Gratch (University of Southern California, USA)  
Yuhong Guo (Carleton University, Canada)  
Andreas Herzig (CNRS IRIT, EU)  
C. V. Jawahar, IIIT Hyderabad, CVIT, India)  
Kristian Kersting (TU Darmstadt, EU)  
James Kwok (Hong Kong University of Science and Technology, HK)  
Sarit Kraus (Bar-Ilan University, Israel)  
Kate Larson (University of Waterloo, Canada)  
Fangzhen Lin (Hong Kong University of Science and Technology, HK)  
Shaul Markovitch (Technion – Israel Institute of Technology, Israel)  
Pierre Marquis (CRIL, U. Artois & CNRS, EU)  
Roberto Navigli (Sapienza Università di Roma, EU)  
Jennifer Neville (Purdue University, USA)  
Hwee Tou Ng (National University of Singapore, Singapore)  
Vincent Ng (University of Texas at Dallas, USA)  
Catherine Pélachaud (CNRS – ISIR, UPMC)  
Pascal Poupart (University of Waterloo, Canada)  
Ariel Procaccia (Carnegie Mellon University, USA)  
Luc de Raedt (KU Leuven, EU)  
Dan Roth (University of Pennsylvania, USA)  
Alessandro Saffiotti (Örebro University, EU)  
Torsten Schaub (University of Potsdam, EU)  
Matthijs Spaan (Delft University of Technology, EU)  
Peter Stone (University of Texas at Austin, USA)  
Masashi Sugiyama (RIKEN / The University of Tokyo, Japan)  
Dacheng Tao (University of Sydney, Australia)

Sylvie Thiébaux (Australian National University, Australia)  
Michael Thielscher (University of New South Wales, Australia)  
Shuicheng Yan (National University of Singapore, Singapore)  
Qiang Yang (Hong Kong University of Science and Technology, HK)  
Makoto Yokoo (Kyushu University, Japan)  
Yang Yu (Nanjing University, China)  
Min-Ling Zhang (Southeast University, China)  
Zhi-Hua Zhou (Nanjing University, China)  
Jun Zhu (Tsinghua University, China)  
Shlomo Zilberstein (University of Massachusetts Amherst, USA)  
Chengqing Zong (aChinese Academy of Sciences, China)

### Senior Program Committee Members

Noa Agmon  
Thomas Ågotnes  
Zeynep Akata  
Karteek Alahari  
Natasha Alechina  
Chris Amato  
Leila Amgoud  
Bo An  
Cecilio Angulo  
Grigoris Antoniou  
Annalisa Appice  
Jamal Atif  
Katie Atkinson  
Tsz-Chiu Au  
Haris Aziz  
Franz Baader  
Venkatesh Babu  
Christer Bäckström  
Xiang Bai  
James Bailey  
Vineeth Balasubramanian  
Lamberto Ballan  
Bikramjit Banerjee  
Roberto Basili  
Ana Bazzan  
Francesco Belardinelli  
Shai Ben-David  
Aurélie Beynier  
Mehul Bhatt  
Meghyn Bienvenu  
Armin Biere  
Albert Bifet  
Mauro Birattari

Susanne Biundo  
Hendrik Blockeel  
Mark Boddy  
Thomas Bolander  
Francesco Bonchi  
Richard Booth  
Daniel Borrajo  
Henrik Boström  
Adi Botea  
Sylvain Bouveret  
Felix Brandt  
Ulf Brefeld  
Olivier Buffet  
Wray Buntine  
Michael Buro  
Pedro Cabalar  
Deng Cai  
Diego Calvanese  
Tran Cao Son  
Ioannis Caragiannis  
Bruno Castro da Silva  
Tristan Cazenave  
Amedeo Cesta  
Georgios Chalkiadakis  
Manmohan Chandraker  
Vinay Chaudri  
Changyou Chen  
Enhong Chen  
Songcan Chen  
Li Cheng  
Ming-Ming Cheng  
William K. Cheung  
Yiu-ming Cheung  
Yann Chevaleyre  
Ed Chi  
Arthur Choi  
Seungjin Choi  
Alessandro Cimatti  
Amanda Coles  
Martin Cooper  
Koby Crammer  
Peng Cui  
James Cussens  
Claudia d'Amato  
Artur d'Avila Garcez  
Sanmay Das  
Mehdi Dastani  
Ian Davidson  
Jesse Davis  
Cassio de Campos  
Colin de la Higuera  
Gerard de Melo  
Rodrigo de Salvo Braz  
Mathijs de Weerdt  
James Delgrande

Cheng Deng  
Pascal Denis  
Sébastien Destercke  
Frank Dignum  
Virginia Dignum  
Minh Do  
Prashant Doshi  
Agostino Dovier  
Marek Druzdzel  
Bo Du  
Edmund Durfee  
Eric Eaton  
Esra Erdem  
Jérôme Euzenat  
Piotr Faliszewski  
Boi Faltings  
James Fan  
Hélène Fargier  
Alessandro Farinelli  
Eduardo Fermé  
Marcelo Finger  
Peter Flach  
Enrico Franconi  
Eibe Frank  
Christian Freksa  
Tobias Friedrich  
Yun Fu  
Johannes Fürnkranz  
Kobi Gal  
patrick gallinari  
Joao Gama  
Aldo Gangemi  
Jianfeng Gao  
Junbin Gao  
Wei Gao  
Yang Gao  
Serge Gaspers  
Nicola Gatti  
Xin Geng  
Enrico Gerding  
Alfonso Emilio Gerevini  
Malik Ghallab  
Mohammad Ghavamzadeh  
Enrico Giunchiglia  
Robert Givan  
Lluís Godo  
Vibhav Gogate  
Yves Grandvalet  
Alban Grastien  
Charles Gretton  
Davide Grossi  
Peter Grunwald  
Ziyu Guan  
Hatice Gunes  
Amaury Habrard

Peter Haddawy  
Dilek Hakkani-Tur  
Bohyung Han  
Eric Hansen  
Tatsuya Harada  
Paul Harrenstein  
Patrik Haslum  
Milos Hauskrecht  
Nick Hawes  
Jingrui He  
Qing He  
Xiaodong He  
Xuming He  
Yulan He  
Emmanuel Hebrard  
Malte Helmert  
Katsutoshi Hirayama  
Jesse Hoey  
Joerg Hoffmann  
Steven Hoi  
Jaakko Hollmén  
Geoff Holmes  
Qinghua Hu  
Fei Huang  
Heng Huang  
Minlie Huang  
Xuanjing Huang  
Anthony Hunter  
Alexander Ihler  
Katsumi Inoue  
Luca Iocchi  
Takayuki Ito  
Atsushi Iwasaki  
Tomoharu Iwata  
Manfred Jaeger  
Jing Jiang  
Peter Jonsson  
Alípio Jorge  
Ece Kamar  
Lars Karlsson  
Hisashi Kashima  
George Katsirelos  
Yoshinobu Kawahara  
Ken-ichi Kawarabayashi  
Yiping Ke  
Gabriele Kern-Isberner  
Roni Khardon  
Christopher Kiekintveld  
Irwin King  
Mikko Koivisto  
J. Zico Kolter  
George Konidaris  
Sébastien Konieczny  
Kurt Konolige  
Stefan Kramer

Madhava Krishna  
M. Pawan Kumar  
Satoshi Kurihara  
Sadao Kurohashi  
Branislav Kveton  
Philippe Laborie  
Gerhard Lakemeyer  
Luis Lamb  
Yanyan Lan  
Kathryn Laskey  
Christophe Lecoutre  
Daniel Lee  
Jimmy Lee  
Joohyung Lee  
Joao Leite  
Maurizio Lenzerini  
Yves Lesperance  
James Lester  
Juanzi Li  
Ming Li  
Mu Li  
Sujian Li  
Wu-Jun Li  
Xiaoli Li  
Xue Li  
Yuanqing Li  
Churn-Jung Liao  
Maxim Likhachev  
Chin-Yew Lin  
Hsuan-Tien Lin  
Zhouchen Lin  
Carlos Linares Lopez  
Bing Liu  
Huan Liu  
Huaping Liu  
Jing Liu  
Qun Liu  
Tie-Yan Liu  
Wei Liu  
Weiru Liu  
Yan Liu  
Yang Liu  
Yiqun Liu  
Yongmei Liu  
Daniel Lizotte  
Michele Lombardi  
Alessio Lomuscio  
Emiliano Lorini  
Amy Loutfi  
Daniel Lowd  
Haiping Lu  
Shijian Lu  
Thomas Lukasiewicz  
Jiebo Luo  
Carsten Lutz

Michael R. Lyu  
Daniele Magazzeni  
Felip Manyà  
Stephane Marchand-Maillet  
Janusz Marecki  
Vangelis Markakis  
Joao Marques-Silva  
Stan Matwin  
Nicolas Maudet  
Marina Meila  
Francisco Melo  
Deyu Meng  
Ole Mengshoel  
Thomas Meyer  
Loizos Michael  
Michela Milano  
Angelo Montanari  
Roser Morante  
Alessandro Moschitti  
Emily Mower Provost  
Stephen Muggleton  
Marie-Laure Mugnier  
Philippe Muller  
Jörg Müller  
Remi Munos  
Preslav Nakov  
Vinay Namboodiri  
Daniele Nardi  
Sriaram Natarajan  
Ani Nenkova  
Gerhard Neumann  
Michael Ng  
Alexandru Niculescu-Mizil  
Feiping Nie  
Rolf Niedermeier  
Siegfried Nijssen  
Zhendong Niu  
Ann Nowe  
Eirini Ntoutsi  
Barry O'Sullivan  
Jean Oh  
Takayuki Okatani  
Frans Oliehoek  
Santiago Ontañón  
Takayuki Osogami  
Francois Pachet  
C. David Page  
Gang Pan  
Jeff Z. Pan  
Sinno Jialin Pan  
Panagiotis Papapetrou  
Simon Parsons  
Praveen Paruchuri  
Gabriella Pasi  
Andrea Passerini

Adrian Pearce  
David Pennock  
Patrice Perny  
Gilles Pesant  
Thierry Petit  
Marek Petrik  
Dinh Phung  
Olivier Pietquin  
Massimo Poesio  
Maria Polukarov  
Simone Paolo Ponzetto  
Hoifung Poon  
Valentina Presutti  
Thomas Preuss  
Philippe Preux  
Hui Qian  
Xipeng Qiu  
Claude-Guy Quimper  
Marco Ragni  
Iyad Rahwan  
Nasir Rajpoot  
Sarvapali Ramchurn  
Fabio Ramos  
Pradeep Ravikumar  
Balaraman Ravindran  
Soumya Ray  
Chandan K Reddy  
Silja Renooij  
Jochen Renz  
Mark Riedl  
Jussi Rintanen  
Juan Rodriguez-Aguilar  
Riccardo Rosati  
Avi Rosenfeld  
Francesca Rossi  
Jörg Rothe  
Sebastian Rudolph  
Wheeler Ruml  
Ashish Sabharwal  
Nicolas Sabouret  
Horacio Saggion  
Jun Sakuma  
Yuko Sakurai  
Mark Sanderson  
Tuomas Sandholm  
Scott Sanner  
Sebastian Sardina  
David Sarne  
Ken Satoh  
Uli Sattler  
Thomas Schiex  
Steven Schockaert  
Björn Schuller  
Christian Schulte  
Satoshi Sekine

Sandip Sen  
Luciano Serafini  
Giuseppe Serra  
Guy Shani  
Ling Shao  
Christian Shelton  
Yi-Dong Shen  
Michael Sheng  
Chuan Shi  
Shohei Shimizu  
Jaime Sichman  
Guillermo Simari  
Laurent Simon  
Munindar Singh  
Parag Singla  
Elizabeth Sklar  
Stephen F. Smith  
Barry Smyth  
Anders Søgaard  
Olivier Spanjaard  
Mohan Sridharan  
Biplav Srivastava  
Siddharth Srivastava  
Jerzy Stefanowski  
Kostas Stergiou  
Heiner Stuckenschmidt  
Peter Stuckey  
Nathan Sturtevant  
Keh-Yih Su  
V. S. Subrahmanian  
Jian Sun  
Xu Sun  
Stefan Szeider  
Prasad Tadepalli  
Ichiro Takeuchi  
Jie Tang  
Ke Tang  
Pingzhong Tang  
Matt Taylor  
Isabelle Tellier  
Andrea G. B. Tettamanzi  
Hannu Toivonen  
Marc Tommasi  
Francesca Toni  
Paolo Traverso  
Volker Tresp  
Mirek Trzuszczynski  
Ivor Tsang  
Vincent S. Tseng  
Grigorios Tsumakas  
Kagan Tumer  
Karl Tuyls  
Naonori Ueda  
Peter van Beek  
Guy Van den Broeck

Leon van der Torre  
Pascal van Hentenryck  
Pradeep Varakantham  
Ivan Varzinczak  
Kristen Brent Venable  
Paolo Viappiani  
Serena Villata  
Yevgeniy Vorobeychik  
Toby Walsh  
Xiaojun Wan  
Hua Wang  
Jingdong Wang  
Lei Wang  
Ruili Wang  
Song Wang  
William Yang Wang  
Yan Wang  
Yizhou Wang  
Renata Wassermann  
Taro Watanabe  
Christoph Weidenbach  
Paul Weng  
Mary-Anne Williams  
Nic Wilson  
Mark Winands  
David Wingate  
Michael Winikoff  
Frank Wolter  
Stefan Woltran  
Jia Wu  
Jianxin Wu  
Xintao Wu  
Rui Xia  
Deyi Xiong  
Chang Xu  
Huan Xu  
Linli Xu  
Nianwen Xue  
Makoto Yamada  
Kota Yamaguchi  
Kenji Yamanishi  
Rui Yan  
Haiqin YANG  
Jianchao Yang  
Yi Yang  
William Yeoh  
Dit-Yan Yeung  
Scott Wen-tau Yih  
Pinar Yolum  
Neil Yorke-Smith  
Yuichi Yoshida  
Junsong Yuan  
Xiaotong Yuan  
Pong C Yuen  
François Yvon



Michael Zakharyashev  
Bruno Zanuttini  
Yifeng Zeng  
De-Chuan Zhan  
Daoqiang Zhang  
Dongmo Zhang  
Jiajun Zhang  
Jie Zhang  
Junping Zhang  
Kun Zhang  
Lijun Zhang  
Min Zhang  
Nevin L Zhang  
Xiangliang Zhang  
Xinhua Zhang  
Yan Zhang  
Yu Zhang  
Yue Zhang  
Zhihua Zhang  
Fuzhen Zhuang  
Brian Ziebart  
Sandra Zilles  
Wangmeng Zuo  
Pierre Zweigenbaum

### **Program Committee Members**

Mohammad Abdulaziz  
Mara Abel  
Pedro Henriques Abreu  
Rui Abreu  
Carole Adam  
Niall Adams  
Tameem Adel  
Wilbert G. Aguilar  
Marc Aiguier  
Stephane Airiau  
Thalaiyasingam Ajanthan  
Charilaos Akasiadis  
Ibrahim Alabdulmohsin  
Mehwish Alam  
Rachid Alami  
Michael Albert  
Alexandre Albore  
Huib Aldewereld  
Ronald Alford  
Laura Alonso Alemany  
Jose Alvarez  
Mario Alviano  
Georgios Amanatidis  
Frédéric Amblard  
Giovanni Amendola  
Mohamed Amer  
Ofra Amir

Aijun An  
Aris Anagnostopoulos  
Claudio Angione  
Davide Anguita  
Carlos Ansótegui  
Luiza Antonie  
Alessandro Antonucci  
Xiang Ao  
Sachiyo Arai  
Ricardo Araujo  
Chris Archibald  
Chetan Arora  
Alessandro Artale  
Thierry Artieres  
Christian Artigues  
Alexander Artikis  
Stelios Asteriadis  
Vernon Asuncion  
Martin Atzmueller  
Guillaume Aucher  
Gilles Audemard  
Edmond Awad  
Reyhan Aydogan  
Amar Prakash Azad  
Tim Baarslag  
Yukino Baba  
Davide Bacciu  
Aijun Bai  
Quan Bai  
Xiao Bai  
Hendrik Baier  
Jorge Baier  
Philippe Balbiani  
Matteo Baldoni  
Miguel Ballesteros  
Tomas Balyo  
Francesco Barbieri  
Laura Barbulescu  
Elias Bareinboim  
Mahmoud Barhamgi  
Thomas Barkowsky  
Michael W Barley  
Cristina Baroglio  
Loïc Barrault  
Alberto Barron-Cedeno  
Nathanael Barrot  
Roman Barták  
Valerio Basile  
Nicola Basilico  
Nick Bassiliades  
Gustavo Batista  
Kim Batselier  
Ringo Baumann  
Dorothea Baumeister  
Peter Baumgartner

Xiaohui Bei  
Christoph Beierle  
Vaishak Belle  
Nahla Ben Amor  
Jonathan Ben-Naim  
Nawal Benabbou  
Farah Benamara  
Alessio Benavoli  
Mario Benevides  
J. Benton  
Aniket Bera  
Pascal Bercher  
David Bergman  
Shlomo Berkovsky  
Sven Bertel  
Leopoldo Bertossi  
Laurent Besacier  
Tarek R. Besold  
Alex Bewley  
Floris Bex  
Olaf Beyersdorff  
Sahely Bhadra  
Chandra Bhagavatula  
Satyanath Bhat  
Brojeshwar Bhowmick  
Jiang Bian  
Wei Bian  
Reinaldo Bianchi  
Battista Biggio  
Vittorio Bilò  
Wang Bin  
Alex Binder  
Lidong Bing  
Peter Biro  
Filippo Bistaffa  
Stefano Bistarelli  
Arijit Biswas  
Arthur Bit-Monnot  
Elizabeth Black  
Eduardo Blanco  
Konstantinos Blekas  
Bernhard Bliem  
Daan Bloembergen  
Domenico Bloisi  
Fernando Bobillo  
Alexander Bochman  
Ulrich Bodenhofer  
Bart Bogaerts  
Olivier Boissier  
Danushka Bollegala  
Magnus Boman  
Thomas Bonald  
Claire Bonial  
Gregory Bonnet  
Rafael H. Bordini

Alexander Borgida  
Stefan Borgwardt  
Mihaela Bornea  
Luca Bortolussi  
Branislav Bošanský  
Elena Botoeva  
Houda Bouamor  
Diane Bouchacourt  
Zied Bouraoui  
Ioana Boureanu  
Gauvain Bourgne  
Pierre Bourhis  
Bruno Bouzy  
Marco Bozzano  
Loris Bozzato  
António Branco  
Anarosa Brandão  
Florian Brandl  
Simina Brânzei  
Felipe Bravo-Marquez  
Pavel Brazdil  
Robert Bredereck  
Davide Bresolin  
Markus Brill  
Krysiya Broda  
Joost Broekens  
Ken Brown  
Cameron Browne  
Neil Bruce  
Dariusz Brzezinski  
Paul Buitelaar  
Robin Burke  
Davide Buscaldi  
André de Carvalho  
Elena Cabrio  
Shaowei Cai  
Sijia Cai  
Weidong Cai  
Yi Cai  
Zhiping Cai  
Olivier Cailloux  
Iacer Calixto  
Rui Camacho  
Erik Cambria  
Martin Caminada  
Huiping Cao  
Xiaochun Cao  
Xin Cao  
Florent Capelli  
Jesus Capitan  
Roberto Capobianco  
Clément Carbonnel  
Mats Carlsson  
Gervet Carmen  
Walter Carnielli

Luciano Caroprese  
David Carral  
Jorge Carrillo-de-Albornoz  
Giovanni Casini  
Jörg Cassens  
Katarína Cechlárová  
Michelangelo Ceci  
Peggy Cellier  
Ondrej Cepek  
Federico Cerutti  
İsmail İlkan Ceylan  
Sutanu Chakaraborti  
Tathagata Chakraborti  
Mithun Chakraborty  
Prithwish Chakraborty  
Shayok Chakraborty  
Hau Chan  
Hei Chan  
Jeffrey Chan  
Jake Chandler  
Xiaojun Chang  
W. Art Chaovalitwongse  
François Charpillet  
Bilian Chen  
Boxing Chen  
Chaochao Chen  
Chen Chen  
Chu-Song Chen  
Chuan Chen  
Eunice Yuh-Jie Chen  
Fang Chen  
Feng Chen  
Hsin-Hsi Chen  
Jiehua Chen  
Ling Chen  
Qingliang Chen  
Si-Bao Chen  
Suming Chen  
Taolue Chen  
Xiaojun Chen  
Xinlei Chen  
Yin Chen  
Yingke Chen  
Yubo Chen  
Yun-Nung Chen  
Zhenzhong Chen  
Zhiyuan Chen  
Zhumin Chen  
Jun Cheng  
Pu-Jen Cheng  
Ran Cheng  
Weiwei Cheng  
Yu Cheng  
Federico Chesani  
Vincent Chevrier

Lianhua Chi  
Yoonsuck Choe  
Heeyoul Choi  
Jaesik Choi  
Laurence Cholvy  
Jaegul Choo  
Amit Chopra  
Li Chou  
Anders Christensen  
Zoé Christoff  
Lukas Chrpa  
Grzegorz Chrupala  
Chenhui Chu  
Kun-Ta Chuang  
Yung-Yu Chuang  
Philipp Cimiano  
Andre Cire  
Davide Ciucci  
Tom Claassen  
Jens Claßen  
Vincent Claveau  
Andrea Cohen  
Simon Colton  
Richard Combes  
Jean-François Condotta  
Stefano Coniglio  
Matthieu Constant  
Giorgio Corani  
Chris Cornelis  
Gabriella Cortellessa  
Ulises Cortés  
Massimo Cossentino  
Vitor Santos Costa  
Stefania Costantini  
Ines Couso  
Benoit Crabbé  
Bruno Crémilleux  
Natalia Criado  
Danilo Croce  
Madalina Croitoru  
Bernardo Cuenca Grau  
Fabio Cuzzolin  
Marek Cygan  
Kristijonas Čyras  
Marcello D'Agostino  
Nicolás D'Ippolito  
Florence d'Alché-Buc  
Celia da Costa Pereira  
Luciano da F. Costa  
Giovanni Da San Martino  
Feng Dai  
Wang-Zhou Dai  
Xin-Yu Dai  
Beatrice Daille  
Bhavana Dalvi

Carlos Damásio  
Neil Dantam  
Mrinal Kanti Das  
Prithviraj Dasgupta  
Marelle Davel  
Eli (Omid) David  
Jérôme David  
Luis M. de Campos  
Orphée De Clercq  
Ronald de Haan  
Dave de Jonge  
Bart de Keijzer  
Tomas De la Rosa  
Tiago de Lima  
Riccardo De Masellis  
Celso de Melo  
Giuseppe De Nittis  
Valeria de Paiva  
Marina De Vos  
Dario Della Monica  
Stephane Demri  
Jeremiah Deng  
Ke Deng  
Yue Deng  
Ludovic Denoyer  
Gilles Dequen  
Nate Derbinsky  
Alban Desmaison  
Palash Dey  
Abhinav Dhall  
Amit Dhurandhar  
Tommaso Di Noia  
Morgado Dias  
Jilles Dibangoye  
John Dickerson  
Martin Dieguez  
Francisco Javier Diez  
Bistra Dilkina  
Catalin Dima  
Yannis Dimopoulos  
Marco Dinarelli  
Guiguang Ding  
Xinghao Ding  
Yao-Xiang Ding  
Santosh Kumar Divvala  
Clare Dixon  
Dragan Doder  
Puneet Dokania  
Mianxiong Dong  
Jana Doppa  
Derek Doran  
Gary Doran  
Dejing Dou  
Qi Dou  
John Doucette

Sylvie Doutré  
Mauro Dragoni  
Anton Dries  
Kurt Driessens  
Nicolas Drougard  
Chris Drummond  
Joanna Drummond  
Changying Du  
Heshan Du  
Lan Du  
Nan Duan  
Devdatt Dubhashi  
Paul Duckworth  
Damien Jade Duff  
Sebastijan Dumancic  
Paul Dunne  
Florence Dupin de Saint-Cyr  
François Durand  
Robert Durrant  
Wolfgang Dvořák  
Saso Dzeroski  
Marcin Dziubiński  
Witold Dzwiniel  
Adam Eck  
Andreas Ecke  
Kyriakos Efthymiadis  
Ralf Eggeling  
Layla El Asri  
Shady Elbassuoni  
Tapio Elomaa  
Zied Elouedi  
Stefano Ermon  
Juhan Ernits  
Marcelo Errecalde  
Luis Espinosa Anke  
Yannick Estève  
Patricia Everaere  
Wolfgang Faber  
Marcelo A. Falappa  
Rino Falcone  
Ali Fallah Tehrani  
Zoe Falomir  
Xiaochuan Fan  
Xiuyi Fan  
Hadi Fanaee-T  
Jorge Fandiño  
Angelo Fanelli  
Fei Fang  
Liangda Fang  
Zhiwen Fang  
Nicola Fanizzi  
Catherine Faron Zucker  
Mireia Farrus  
Cristina Feier  
Alexander Feldman

Jiashi Feng  
Liang Feng  
Qingxiang Feng  
Shi Feng  
Songhe Feng  
Wei Feng  
Yang Feng  
Yansong Feng  
Stefano Ferilli  
Eraldo Fernandes  
Fernando Fernández  
Diodato Ferraioli  
Alexander Ferrein  
Cèsar Ferri  
Besnik Fetahu  
Johannes K. Fichte  
Aris Filos-Ratsikas  
Alberto Finzi  
Ferdinando Fioretto  
Tommaso Flaminio  
Michele Flammini  
Arthur Flexer  
Giorgos Flouris  
Michael Floyd  
Chuan Sheng Foo  
Andrea Formisano  
Nicoletta Fornara  
Mary Ellen Foster  
Dimitris Fotakis  
James Foulds  
Jeremy Frank  
Rupert Freeman  
Xueyang Fu  
Yanjie Fu  
Yanwei Fu  
Masahiro Fujita  
Yasuhiro Fujiwara  
Alex Fukunaga  
Naoki Fukuta  
Alfredo Gabaldon  
Kata Gabor  
Snehalkumar 'Neil' Gaikwad  
Lucie Galand  
Chuang Gan  
Vineet Gandhi  
Fabien Gandon  
Vijay Ganesh  
Robert Ganian  
Changxin Gao  
Chao Gao  
Hongchang Gao  
Hongxia Gao  
Jie Gao  
Jing Gao  
Ke Gao

Lianli Gao  
Qin Gao  
Quanxue Gao  
Quanxue Gao  
Ruipeng Gao  
Sheng Gao  
Wei Gao  
Xin Gao  
Yue Gao  
Salvador García  
Angel Garcia-Olaya  
Marco Gario  
Milica Gasic  
Benoit Gaudou  
Eric Gaussier  
Xiaoyu Ge  
Yong Ge  
Martin Gebser  
Matthieu Geist  
Pierre Genevès  
Katie Genter  
Melinda Gervasio  
Chiara Ghidini  
Silvio Ghilardi  
Massimiliano Giacomini  
Karina Gibert  
Nina Gierasimczuk  
Hugo Gilbert  
Jesús Giráldez-Cru  
Vasilis Gkatzelis  
Hadrien Glaude  
Goran Glavas  
Birte Glimm  
François Goasdoué  
Robby Goetschalckx  
Robert Goldman  
Sujatha Das Gollapalli  
Heitor Murilo Gomes  
Ricardo Gonçalves  
Chen Gong  
Mingming Gong  
Wenyin Gong  
Yihong Gong  
Valentin Goranko  
Marco Gori  
Nico Görnitz  
Arnaud Gotlieb  
Sebastian Gottifredi  
Laurent Gourvès  
Umberto Grandi  
Tal Grinshpoun  
Moritz Grosse-Wentrup  
Bin Gu  
Shuhang Gu  
Stefano Gualandi

Hans Guesgen  
Huan Gui  
Lin Gui  
Giancarlo Guizzardi  
Sujit Gujar  
Akin Günay  
Tias Guns  
Di Guo  
Guibing Guo  
Jiong Guo  
Mingyu Guo  
Ping Guo  
Ting Guo  
Yuanfang Guo  
Sunil Gupta  
Julian Gutierrez  
Victor Gutiérrez-Basulto  
Matthew Guzdial  
Francisco Guzman  
Ivan Habernal  
Djamal Habet  
Ben Hachey  
Rafik Hadfi  
Emmanuel Hadoux  
Morteza Haghiri Chehreghani  
Zhen Hai  
Thomas Hain  
Chen Hajaj  
Mohammad Hajiaghayi  
Anne Håkansson  
Jungong Han  
Junwei Han  
The Anh Han  
Xianpei Han  
Yahong Han  
Yufei Han  
Allan Hanbury  
Marc Hanheide  
Lars Kai Hansen  
Tianyong Hao  
Satoshi Hara  
Daniel Harabor  
Christian Hardmeier  
James Harland  
Stefan Harrer  
Amelia Harrison  
Brent Harrison  
Mohammad Rashedul Hasan  
Chikara Hashimoto  
Daisuke Hatano  
Kohei Hatano  
Hiromitsu Hattori  
Conor Hayes  
Noam Hazon  
Dongxiao He

Fang He  
Kun He  
Ran He  
Shizhu He  
Xiangnan He  
Xiao He  
Xinran He  
Jennifer Healey  
Edith Hemaspaandra  
Lane A. Hemaspaandra  
Iris Hendrickx  
Aron Henriksson  
Carlos Hernandez  
Pablo Hernandez-Leal  
Jose Hernandez-Orallo  
Andre Hernich  
Marijn Heule  
Ryuichiro Higashinaka  
Koen Hindriks  
Hideitsu Hino  
Brahim Hnich  
Chien-Ju Ho  
Clint Chin Pang Ho  
Edmond S. L. Ho  
Nghia Hoang  
Dirk Holz  
Arjen Hommersom  
Jun Hong  
Richang Hong  
Yu Hong  
Enamul Hoque  
Hykel Hosni  
Jesse Hostetler  
Andreas Hotho  
Chenping Hou  
Ping Hou  
Jane Hsu  
Kuang-Jui Hsu  
Guosheng Hu  
Juhua Hu  
Liang Hu  
Xia Hu  
Yao Hu  
Furong Huang  
Guoping Huang  
Han Huang  
Jia-Bin Huang  
Kaiqi Huang  
Kaiqi Huang  
Kaizhu Huang  
Kejun Huang  
Po-Sen Huang  
Qiming Huang  
Ruihong Huang  
Sheng-Jun Huang

Shujian Huang  
Wenbing Huang  
Xiaojiang Huang  
xiaowei huang  
Xin Huang  
Marie-José Huguet  
Aaron Hunter  
Zhouyuan Huo  
Rebecca A Hutchinson  
Marcus Hutter  
Viet Huynh  
Sung Ju Hwang  
Rasmus Ibsen-Jensen  
Nancy Ide  
Tsuyoshi Ide  
Georgiana Ifrim  
Roberto Iglesias Rodriguez  
Alexey Ignatiev  
Takashi Ikegami  
Masaaki Imaizumi  
Takashi Imamichi  
Felix Ingrand  
Go Irie  
Katsuhiko Ishiguro  
Masakazu Ishihata  
Anisse Ismaili  
Magdalena Ivanovska  
Yusuke Iwasawa  
Said Jabbour  
Francois Jacquenet  
Brijnesh Jain  
Mahdi Jalili  
Shoaib Jameel  
Wojciech Jamroga  
Dietmar Jannach  
Mikolas Janota  
Szymon Jaroszewicz  
William Jarrold  
Matti Järvisalo  
Peter Jeavons  
Baptiste Jeudy  
Arnav Jhala  
Pan Ji  
Rongrong Ji  
Jia Jia  
Albert Xin Jiang  
Guifei Jiang  
Hua Jiang  
Hui Jiang  
Jie-Hong Jiang  
Jing Jiang  
Jingtian Jiang  
Junjun Jiang  
Meng Jiang  
Shuqiang Jiang

Tingting Jiang  
Xiaorui Jiang  
Xueyan Jiang  
Zhuolin Jiang  
Biao Jie  
Sergio Jimenez Celorrio  
Ernesto Jimenez-Ruiz  
Bo Jin  
Di Jin  
Xiaoming Jin  
Zhongming Jin  
Xiao-Yuan Jing  
Michael Johanson  
Ulf Johansson  
Benjamin Johnston  
Hazaël Jones  
Arne Jönsson  
Nicolas Jouandeau  
Brendan Juba  
Jean Christoph Jung  
Ulrich Junker  
Tommi Junttila  
Anna Jurek  
Ata Kaban  
Souhila Kaci  
Ozgur Kafali  
Hermann Kaindl  
Michael Kaisers  
Nobuhiro Kaji  
Hiroshi Kajino  
Antonis Kakas  
Dimitris Kalles  
Vana Kalogeraki  
Roger Kameugne  
Mark Kaminski  
Toshihiro Kamishima  
Ryo Kanamori  
Melih Kandemir  
Panagiotis Kanellopoulos  
Zhao Kang  
Iyad Kanj  
Jean-Daniel Kant  
Hung-Yu Kao  
Nikos Karanikolas  
Masayuki Karasuyama  
Isak Karlsson  
Erez Karpas  
Andreas Karwath  
Samuel Kaski  
Ioannis Katakis  
Takayuki Katsuki  
Michael Katz  
Daisuke Kawahara  
Hidenori Kawamura  
Yasushi Kawase

Hilal Kazan  
Thomas Keller  
Sarah Keren  
Nitish Shirish Keskar  
Salman Khan  
Shehroz Khan  
Mitesh Khapra  
Tushar Khot  
Stanislav Kikot  
Philip Kilby  
Doo Soon Kim  
Gunhee Kim  
Minje Kim  
Saehoon Kim  
Angelika Kimmig  
Thomas C. King  
Svetlana Kiritchenko  
Akihiro Kishimoto  
Zeynep Kiziltan  
Günter Klambauer  
Arto Klami  
William Klement  
Tomas Kliegr  
Max Klimm  
Matthias Klusch  
Peter Knees  
Laurent Kneip  
Matthias Knorr  
Alistair Knott  
Dragi Kocev  
Uwe Köckemann  
Nadin Kokciyan  
Fotios Kokkoras  
Andrey Kolobov  
Antonín Komenda  
Christian Komusiewicz  
Boris Konev  
Adams Wai Kin Kong  
Deguang Kong  
Tao Kong  
Takuya Konishi  
Roman Kontchakov  
Anna Koop  
Patrick Koopmann  
Parisa Kordjamshidi  
Janne H. Korhonen  
Egor Kostylev  
Lars Kotthoff  
Pigi Kouki  
Costas Koutras  
Daniel Laszlo Kovacs  
Georg Kreml  
Anastasia Krithara  
Christian Kroer  
Markus Kröttsch

Lun-Wei Ku  
Daniel Kudenko  
Louwe B. Kuijer  
Meelis Kull  
Oliver Kullmann  
Akshat Kumar  
Srijan Kumar  
Swagat Kumar  
Gautam Kunapuli  
Lars Kunze  
Clemens Kupke  
Takeshi Kurashima  
Ondrej Kuzelka  
Johan Kwisthout  
Salvatore La Torre  
Jorma Laaksonen  
Christophe Labreuche  
Bruno Lacerda  
Nicolas Lachiche  
Jean-Marie Lagniez  
Hanjiang Lai  
Zhao-Rong Lai  
Himabindu Lakkaraju  
Kiran Lakkaraju  
Arnaud Lallouet  
Robin Lamarche-Perrin  
Chao Lan  
Liang Lan  
Xiangyuan Lan  
Helge Langseth  
Guy Lapalme  
Romain Laroche  
Massimo Lauria  
Niklas Lavesson  
Marc Law  
Jonathan Lawry  
Agnieszka Lawrynowicz  
Nadjib Lazaar  
Tam Le  
Tiep Le  
Trung Le  
Vuong Le  
Florence Le Ber  
Daniel Le Berre  
Joseph Le Roux  
Le Le Zhang  
Freddy Lecue  
Jae Hee Lee  
Wan-Jui Lee  
Yuh-Jye Lee  
Louise Leenen  
Els Lefever  
Jens Lehmann  
Zhen Lei  
Levi Lelis



Séverin Lemaignan  
Julio Lemos  
Alessandro Lenci  
Pascal Lenzner  
Philippe Leray  
Julien Lesca  
Marie-Jeanne Lesot  
Joshua Letchford  
Ho-fung Leung  
Omer Lev  
Jordi Levy  
Bo Li  
Bohan Li  
Boyang Li  
Chao Li  
Chenliang Li  
Chu-Min Li  
Gang Li  
Guanbin Li  
Jessie Li  
Jiyi Li  
Jundong Li  
Junhui Li  
Junyi Jessy Li  
Lei Li  
Maoxi Li  
Miaomiao Li  
Nan Li  
Ping Li  
Sanjiang Li  
Shao-Yuan Li  
Sheng Li  
Shoushan Li  
Weiming Li  
Xi Li  
Xiao-Lin Li  
Xiaoqing Li  
Xin Li  
Yang Li  
Yu-Feng Li  
Yuan-Fang Li  
Yuncheng Li  
Zhaojian Li  
Zhe Li  
Defu Lian  
Huizhi (Elly) Liang  
Jian Liang  
Shangsong Liang  
Xiaodan Liang  
Beishui Liao  
Vera Liao  
Leonid Libkin  
Yulia Lierler  
Antonio Lieto  
Vladimir Lifschitz

Anne-Laure Ligozat  
Jefrey Lijffijt  
Aristidis Likas  
Kar Wai Lim  
Chenghua Lin  
Christopher Lin  
Harris Lin  
Shoude Lin  
Thomas Linsbichler  
Nir Lipovetzky  
Marco Lippi  
Francesca Alessandra Lisi  
Viliam Lisý  
Anan Liu  
April H Liu  
Bo Liu  
Buyu Liu  
Chang Liu  
chenghao liu  
Guanfeng Liu  
Haitao Liu  
Jialin Liu  
Jiangming Liu  
Jiaying Liu  
Jie Liu  
Kang Liu  
Kefei Liu  
Li-Ping Liu  
Lingqiao Liu  
Meng Liu  
Miao Liu  
Miaomiao Liu  
Mingxia Liu  
Qi Liu  
Qingshan Liu  
Risheng Liu  
Shujie Liu  
Tongliang Liu  
Weiwei Liu  
Xiaobai Liu  
Xiaobing Liu  
Xiaoyang Liu  
Xinwang Liu  
Xudong Liu  
Yang Liu  
Yong Liu  
Yun Liu  
Zhiyuan Liu  
Zitao Liu  
Nikola Ljubešić  
David Lo  
Jorge Lobo  
Frank Loebe  
Brian Logan  
Corrado Loglisci

Guodong Long  
Mingsheng Long  
Dominique Longin  
Florian Lonsing  
Alneu Lopes  
Maite Lopez Sanchez  
Xavier Lorca  
Ulf Lorenz  
Samir Loudni  
Grigorios Loukides  
Bao-Liang Lu  
Canyi Lu  
Chang-Tien Lu  
Chi-Jen Lu  
Tyler Lu  
Xiaoqiang Lu  
Zhiwu Lu  
Benjamin Lubin  
Peter Lucas  
Simon Lucas  
Corinne Lucet  
Brendan Lucier  
Birgit Lugin  
Cheng Luo  
Chuan Luo  
Lei Luo  
Minnan Luo  
Xin Luo  
Yuan Luo  
Zhiling Luo  
Thibaut Lust  
Jiancheng Lv  
Zhipeng Lv  
Ines Lynce  
Jianbing Ma  
Jiayi Ma  
Mingbo Ma  
Ning Ma  
Qiang Ma  
Qianli Ma  
Tengfei Ma  
Wei-Yun Ma  
Weidong Ma  
Yue Ma  
Brian Mac Namee  
Anders Madsen  
Takanori Maehara  
Ana Maguitman  
Jean-Guy Maily  
Enrico Malizia  
Shervin Malmasi  
Brandon Malone  
Vadim Malvone  
Giuseppe Manco  
Lawrence Mandow

Cristina Manfredotti  
Silviu Maniu  
Dinesh Manocha  
Masoumeh Mansouri  
Naresh Manwani  
Hua Mao  
Wenji Mao  
Xian-Ling Mao  
Juliano Maranhao  
Marco Maratea  
Diego Marcheggiani  
Enrico Marchioni  
Dragos Margineantu  
Radu Marinescu  
Sarajane Marques Peres  
Christophe Marsala  
Stephen Marsland  
Barnaby Martin  
Moises Martinez  
María Vanina Martínez  
Jesus Martinez del Rincon  
Bruno Martins  
Luis Marujo  
Viviana Mascardi  
Fulvio Mastrogiovanni  
Carles Mateu  
Philippe Mathieu  
Mihhail Matskin  
Shigeo Matsubara  
Toshihiro Matsui  
Nicholas Mattei  
Robert Mattmüller  
Denis Maua  
Sahisnu Mazumder  
Julian McAuley  
Ciaran McCreesh  
Daniel McDuff  
Jesús Medina  
Kuldeep Meel  
Wannes Meert  
Deepak Mehta  
Christian Meilicke  
Reshef Meir  
Wagner Meira  
Luis Menasché Schechter  
Carlos Mencía  
João Mendes-Moreira  
Felipe Meneguzzi  
Yunsong Meng  
Stefan Mengel  
Jerome Mengin  
Aditya Menon  
Rosa Meo  
Albert Meroño-Peñuela  
John-Jules Meyer

Ghita Mezzour  
Roberto Micalizio  
Jakub Michaliszyn  
Martin Michalowski  
Laurent Michel  
Alessio Micheli  
Andrea Micheli  
Steffen Michels  
Ian Miguel  
Alessandra Mileo  
Simon Miles  
Evangelos Milios  
Rob Miller  
Weiqing Min  
Koji Mineshima  
Duan Mingxing  
Leandro Minku  
Enrique Miranda  
Neeldhara Misra  
Matthias Mnich  
Karthika Mohan  
Behrang Mohit  
Thierry Moisan  
Cristian Molinaro  
Diego Molla-Aliod  
Dagmar Monett  
Jérôme Monnot  
Anna Monreale  
Marco Montali  
Kristine Monteith  
Kody Moodley  
Michael Morak  
Javier Morales  
Alvaro Moreira  
Antonio Morgado  
Tetsuro Morimura  
Michael Morin  
Satoshi Morinaga  
Boris Motik  
Abdel-Allah Mouaddib  
Sergio Mover  
Tingting Mu  
Yadong Mu  
Christian Muise  
Rutu Mulkar  
Emmanuel Müller  
Aniello Murano  
Zachary Murez  
Pradeep K. Murukannaiah  
Claudiu Musat  
Lledó Museros  
Nysret Musliu  
Leliane N. de Barros  
Alexander Nadel  
Hideki Nakayama

Grzegorz J. Nalepa  
Ullas Nambiar  
Anoop Namboodiri  
Mirco Nanni  
Amedeo Napoli  
Ramasuri Narayanam  
Nina Narodytska  
Faria Nassiri-Mofakham  
Swaprava Nath  
Abhaya Nayak  
Angela Nebot  
Claire Nedellec  
Benjamin Negrevergne  
Bernhard Nessler  
Frank Neumann  
M A Hakim Newton  
Vien Ngo  
Hoang Nga Nguyen  
Nhan-Tam Nguyen  
Thanh Nguyen  
Trung Thanh Nguyen  
Tu Dinh Nguyen  
Vu Nguyen  
Bingbing Ni  
Andre Nichterlein  
Mihalis Nicolaou  
Liqiang Nie  
Weizhi Nie  
Thomas Nielsen  
Mathias Niepert  
Juan Carlos Nieves  
Oliver Niggemann  
Peter Nightingale  
Nadeschda Nikitina  
Xia Ning  
Alexandre Niveau  
Itsuki Noda  
Jakob Nordström  
Emma Norling  
Timothy Norman  
Paulo Novais  
Peter Novak  
Valsamis Ntouskos  
Ingrid Nunes  
Besmira Nushi  
Andrea Giovanni Nuzzolese  
Diarmuid Ó Séaghdha  
Brian O'Neill  
Svetlana Obraztsova  
Angelo Oddi  
Papini Odile  
Phillip Odom  
Dino Oglic  
Dimitri Ognibene  
Manuel Ojeda-Aciego

Naoaki Okazaki  
Eva Onaindia  
Sebastian Ordyniak  
Joel Oren  
Nir Oren  
Mehmet Orgun  
AndreA Orlandini  
Magdalena Ortiz  
Takanobu Otsuka  
Lionel Ott  
Wassila Ouerdane  
Satoshi Oyama  
Ana Ozaki  
Mete Ozay  
Arzucan Ozgur  
Meltem Ozturk  
Sujit P.b  
Eric Pacuit  
Julian Padget  
Aline Paes  
Maurice Pagnucco  
Brooks Paige  
Hector Palacios  
George Paliouras  
Filippo Palumbo  
Shirui Pan  
Yinghui Pan  
Yannis Panagakis  
Guansong Pang  
Yanwei Pang  
Panče Panov  
Alexandre Papadopoulos  
Anastasia Paparrizou  
Pere Pardo  
Xavier Parent  
Francesco Parisi  
Dae Hoon Park  
Jong Park  
Sunho Park  
David Parker  
Ioannis Partalas  
Claude Pasquier  
Kitsuchart Pasupa  
Peter Patel-Schneider  
Fabio Patrizi  
Siddharth Patwardhan  
Alexandre Pauchet  
Terry Payne  
Federico Pecora  
Robert Peharz  
Marie Pelleau  
Thomas Pellegrini  
Damien Pellier  
Rafael Penaloza  
Yannick Pencolé

Chengbin Peng  
Nanyun Peng  
Wen-Chih Peng  
Xi Peng  
Yuxin Peng  
Ruggero Pensa  
Pavlos Peppas  
André Grahl Pereira  
Giuseppe Perelli  
Guillaume Perez  
Diego Perez Liebana  
Julien Perolat  
Michael Perrot  
Laurent Perrussel  
Georgios Petasis  
Ron Petrick  
Nghia Pham  
Nhathai Phan  
Chiara Piacentini  
Carla Piazza  
Gauthier Picard  
Sebastien Picault  
Reinhard Pichler  
Fabio Pierazzi  
Andreas Pieris  
Basile Pierpaolo  
Ingo Pill  
Sophie Pinchinat  
Carlo Pinciroli  
Wang Pinghui  
Ramon Pino-Perez  
Gianvito Pio  
Bilal Piot  
Matteo Pirotta  
Marco Pistore  
André Platzter  
Thomas Ploetz  
Axel Polleres  
Alex Polozov  
Mihai Pomarlan  
Florian Pommerening  
Leonard Poon  
Fabrice Popineau  
Daniele Porello  
Julie Porteous  
David Portugal  
Nico Potyka  
Gian Luca Pozzato  
Cédric Pralet  
L. A. Prashanth  
Frederic Precioso  
Steve Prestwich  
Alberto Pretto  
Mike Preuss  
Thomas Preuss

Alessandro Previti  
Patrick Prosser  
Charles Prud'homme  
Ricardo Prudencio  
Joerg Puehrer  
Chiara Pulice  
Belarmino Pulido  
Jaime Pulido Fentanes  
Kai Puolamäki  
Sanjay Purushotham  
Matthew Purver  
Talha Qaiser  
Guilin Qi  
Yu Qi  
Chao Qian  
Tieyun Qian  
Yu Qiao  
Shengchao Qin  
Tao Qin  
Yongrui Qin  
Zengchang Qin  
Likun Qiu  
Minghui Qiu  
Weichao Qiu  
Meng Qu  
Luis Quesada  
Markus Rabe  
Zinovi Rabinovich  
Guillaume Rabusseau  
Emmanuel Rachelson  
Goran Radanovic  
Aswin Raghavan  
Piyush Rai  
Franco Raimondi  
Vaibhav Rajan  
David Rajaratnam  
Liva Ralaivola  
Ganesh Ramakrishnan  
Subramanian Ramamoorthy  
Ram Ramanujam  
Harish Ramaswamy  
Miquel Ramírez  
Joseph Ramsey  
Sylvie Ranwez  
Riccardo Rasconi  
Baharak Rastegari  
Irma Ravkic  
Oliver Ray  
Veselin Raychev  
Rudy Raymond  
Shan E Ahmed Raza  
Ivan Razo-Zapata  
Anna Helena Reali Costa  
Carrie Rebhuhn  
Ievgen Redko

Christoph Redl  
Khaled Refaat  
Ioannis Refanidis  
Diego Reforgiato Recupero  
Jean-Charles Regin  
Maurício Reis  
Dongwei Ren  
Fenghui Ren  
Xiang Ren  
Yongli Ren  
Zhou Ren  
Gavin Rens  
Chiara Renso  
Marcello Restelli  
Achim Rettinger  
Kate Revoredo  
Anja Rey  
Mark Reynolds  
Francesco Ricca  
Giuseppe Riccardi  
Alessandro Ricci  
Elisa Ricci  
Florian Richoux  
Kai-Florian Richter  
Bram Ridder  
Patricia Riddle  
Tjitze Rienstra  
Fabrizio Riguzzi  
Luke Riley  
Fabien Ringeval  
Petar Ristoski  
Livio Robaldo  
Mark Roberts  
Marko Robnik-Sikonja  
Valentin Robu  
Mathieu Roche  
Ricardo Rodriguez  
Oscar Rodriguez Rocha  
Camino Rodriguez-Vela  
Gabriele Röger  
Diederik Roijers  
Emma Rollon  
Salvatore Romeo  
Wenge Rong  
Francesco Ronzano  
Teemu Roos  
Pedram Rooshenas  
Sara Rosenthal  
Stephanie Rosenthal  
Christopher Rosin  
Benjamin Rosman  
Marco Rospocher  
Sophie Rosset  
Roberto Rossi  
Ryan Rossi

Antonino Rotolo  
Olivier Roussel  
Stéphanie Roussel  
Michael Rovatsos  
Marco Roveri  
Stefano Rovetta  
Shourya Roy  
Wenjie Ruan  
Jonathan Rubin  
Sasha Rubin  
Zachary Rubinstein  
Salvatore Ruggieri  
Thomas Philip Runarsson  
Nicholas Ruozzi  
Chris Russell  
Alessandra Russo  
Zalila-Wenkstern Rym  
Vladislav Ryzhikov  
Jordi Sabater-Mir  
Régis Sabbadin  
Mehdi Sadeqi  
Abdallah Saffidine  
Ramon Sagarna  
Lakhdar Sais  
Masaki Saito  
Hassan Sajjad  
Chiaki Sakama  
Ilias Sakelariou  
Albert Ali Salah  
Yakoub Salhi  
Flora Salim  
Daniel Sánchez  
Luis Sanchez Fernandez  
Antonio Sanchez-Ruiz  
José Santos  
Paulo Santos  
Oren Sar Shalom  
Ravi Kiran Sarvadevabhatla  
Ryohei Sasano  
Taisuke Sato  
Shin'ichi Satoh  
Abdul Sattar  
Domenico Fabio Savo  
Enrico Scala  
Francesco Scarcello  
Pierre Schaus  
Silvia Schiaffino  
Stefan Schiffer  
Stefan Schlobach  
Jan Schlüter  
Ute Schmid  
Renate Schmidt  
Thomas Schneider  
Jonathan Scholz  
Lutz Schröder

Johan Schubert  
Matthias Schubert  
Peter Schüller  
Claudia Schulz  
Michael Ignaz Schumacher  
François Schwarzenruber  
Christoph Schwering  
Sören Schwertfeger  
Nicolas Schwind  
Rolf Schwitter  
Guido Sciacicco  
Stephen Scott  
Laura Sebastia  
Pascale Sébillot  
Konstantinos Sechidis  
Djamé Seddah  
Suvash Sedhain  
Erel Segal-halevi  
Martina Seidl  
Meinolf Sellmann  
Giovanni Semeraro  
Murat Sensoy  
Pedro Sequeira  
Ivan Serina  
Edoardo Serra  
Mathieu Serrurier  
Baris Sertkaya  
Metin Sezgin  
Khaled Shaalan  
Nisarg Shah  
Paulo Shakaraian  
Fanhua Shang  
Junming Shao  
Ming Shao  
Yingxia Shao  
Ehsan Shareghi  
Avinash Sharma  
Dr. Mansi Sharma  
Furao Shen  
Huawei Shen  
Jianbing Shen  
Xiaobo Shen  
Yanyan Shen  
Boxin Shi  
Yinghuan Shi  
Motoki Shiga  
Nobuyuki Shimizu  
Masamichi Shimosaka  
Hiroaki Shiokawa  
Yaniv Shmueli  
Mohamed Siala  
Silvan Sievers  
Olivier Sigaud  
Sujoy Sikdar  
Marius Silaghi

Gerardo Simari  
Mantas Simkus  
Edgar Simo-Serra  
Sunil Simon  
Olivier Simonin  
Arun Singh  
Arunesh Sinha  
Christine Sinoquet  
Carsten Sinz  
Michael Sioutis  
Oskar Skibski  
Piotr Skowron  
Marija Slavkovik  
Friedrich Slivovsky  
Sonja Smets  
Adam Smith  
Lauro Snidaro  
Harold Soh  
Kihyuk Sohn  
Shirin Sohrabi  
Marina Sokolova  
nataliya sokolovska  
Christine Solnon  
Dongjin Song  
Guojie Song  
Jingkuan Song  
Kaisong Song  
Mingli Song  
Xinhang Song  
Xuemeng Song  
Yangqiu Song  
Ameet Soni  
Mikhail Soutchanski  
Nikolaos Spanoudakis  
alessandro sperduti  
Francesca Spezzano  
Newton Spolaôr  
Michael Spranger  
Ramanujan Sridharan  
Vivek Srikumar  
Nisheeth Srivastava  
F. Jordan Srouf  
Sanja Stajner  
Sebastian Stein  
Daria Stepanova  
Roni Stern  
Michiel Stock  
Sabine Storandt  
Carlo Strapparava  
Peter Struss  
Hang Su  
Jinsong Su  
Kaile Su  
Enrique Sucar  
Jose Such

Fabian Suchanek  
Martin Suda  
Masanori Suganuma  
Mahito Sugiyama  
Warut Suksompong  
Aixin Sun  
Jinguang Sun  
Ke Sun  
Min Sun  
Shiliang Sun  
Weiwei Sun  
Hanna Suominen  
Pavel Surynek  
Andrew Sutton  
Yuriy Sverchkov  
Stephen Swift  
Theresa Swift  
Sébastien Tabary  
Karim Tabia  
Guido Tack  
Koh Takeuchi  
Ichigaku Takigawa  
Kartik Talamadupula  
Nimrod Talmon  
Srikanth Tamilselvam  
Valentina Tamma  
Naoyuki Tamura  
Mingkui Tan  
Shulong Tan  
Chang Tang  
Duyu Tang  
Jian Tang  
Jiliang Tang  
Jing Tang  
Sheng Tang  
Yuqing Tang  
Xavier Tannier  
Anderson Tavares  
Florent Teichtel-Koenigsbuch  
Pankaj Telang  
Orestis Telelis  
Ashish Tendulkar  
Alexandre Termier  
Cyril Terrioux  
Stefano Teso  
Khoat Than  
Georgios Theocharous  
Matthias Thimm  
Vincent Thomas  
Michael Thomazo  
Fei Tian  
Ran Tian  
Liu Tingwen  
Nava Tintarev  
Christos Tjortjiss

Hiroyuki Toda  
Taiki Todo  
Ljupco Todorovski  
Julian Togelius  
Fernando Tohme  
David Toman  
Tatiana Tommasi  
Sara Tonelli  
Hanghang Tong  
Alice Toniolo  
Jacobo Toran  
Álvaro Torralba  
Paolo Torroni  
Gianluca Torta  
Sophie Turret  
Truyen Tran  
Long Tran-Thanh  
Louise Travé-Massuyès  
Jan Treur  
Felipe Trevizan  
Nicolas Troquard  
Francesco Trovo  
Yi-Hsuan Tsai  
Panayotis Tsaparas  
Yuta Tsuboi  
Shusaku Tsumoto  
Mei Tu  
ShiKui Tu  
Zhaopeng Tu  
Allan Tucker  
Gyorgy Turan  
Anni-Yasmin Turhan  
Suguru Ueda  
Antti Ukkonen  
Thomas Unterthiner  
Alberto Uriarte  
Tommaso Urli  
Visara Urovi  
Yoshitaka Ushiku  
Rick Valenzano  
Mauro Vallati  
Jack Valmadre  
René van Bevern  
Tim Van de Cruys  
Linda van der Gaag  
M. Birna van Riemsdijk  
Girish Varma  
Wamberto Vasconcelos  
Mayank Vatsa  
Javier Vazquez-Salceda  
Julien Velcin  
Alfredo Vellido  
Adriano Veloso  
Joost Vennekens  
Carmine Ventre

Dan Ventura  
Rodrigo Ventura  
Deepak Venugopal  
Laurent Vercouter  
Mario Verdicchio  
Yashaswi Verma  
Claire Vernade  
Paul Vernaza  
Sicco Verwer Verwer  
Srdjan Vesic  
Concepcion Vidal  
Herna Viktor  
Nathalie Villa-Vialaneix  
João Vinagre  
Bhanukiran Vinzamuri  
Philippe Vismara  
Jonathan Vitale  
Marco Viviani  
Jirka Vomlel  
Alexandros Voudouris  
George Vouros  
Christel Vrain  
Anil Vullikanti  
Sven Wachsmuth  
Markus Wagner  
Mohamed Wahbi  
Byron Wallace  
Rick Wallace  
Johannes Wallner  
Thomas Walsh  
Hai Wan  
Beidou Wang  
Bin Wang  
Boyu Wang  
Can Wang  
Chaokun Wang  
Cheng Wang  
Chenguang Wang  
Chuan-Ju Wang  
Da-Han Wang  
Deqing Wang  
Dingding Wang  
Faqiang Wang  
Hao Wang  
Hao-Chuan Wang  
Hongtao Wang  
Jinqiao Wang  
Junxing Wang  
Kewen Wang  
Keze Wang  
Kun Wang  
Lizhen Wang  
Naiyan Wang  
Nannan Wang  
Pichao Wang



Pidong Wang	Thomas Wiemann
Qi Wang	Marco Wiering
Qi Wang	Ralf Wimmer
Qianqian Wang	Guillaume Wisniewski
Qilong Wang	Gerhard Woeginger
Qiufeng Wang	Dominik Wojtczak
Rong Wang	Christian Wolf
Sen Wang	Diedrich Wolter
Senzhang Wang	Bruno Woltzenlogel Paleo
Shuai Wang	Derek Wong
Shuhui Wang	Lawson Wong
Shusen Wang	Wei Lee Woon
Tao Wang	Franz Wotawa
Tinghuai Wang	Michal Wozniak
Wei Wang	Fangzhao Wu
Wei Wang	Huijia Wu
Wei Wang	I-Chen Wu
Xiaoqian Wang	Lin Wu
Xinchao Wang	Lingfei Wu
Y.-C. Frank Wang	Min Wu
Yi Wang	Shan-Hung Wu
Yisong Wang	Tianfu Wu
Yun-Yun Wang	Wei Wu
Yunhe Wang	Xiaojian Wu
Yuyang Wang	Adam Wyner
Zhangyang Wang	Lirong Xia
Zhaowen Wang	Tian Xia
Zhe Wang	Shiming Xiang
Zhichun Wang	Tao Xiang
Zhiguang Wang	Yanping Xiang
Zhiguo Wang	Guohui Xiao
Zhongqing Wang	Tong Xiao
Yì N. Wáng	Xiaokui Xiao
Leo Wanner	Yang Xiao
Takashi Washio	Yanghua Xiao
Theophane Weber	Zhanhao Xiao
Grant Weddell	Qi Xiaojuan
Mingqiang Wei	Bo Xin
Ping Wei	Xuehan Xiong
Wei Wei	Hongteng Xu
Xiu-Shen Wei	Hu Xu
Ying Wei	Jian Xu
Zhongyu Wei	Jie Xu
Antonius Weinzierl	Jinan Xu
Ximing Wen	Ke Xu
Ying Wen	Kun Xu
Zheng Wen	Miao Xu
Felix Weninger	Xiujuan Xu
Tomas Werner	Yang Xu
Michael Wessel	Yi Xu
David Weston	Yong Xu
Emil Weydert	Yuanlu Xu
Martha White	Zenglin Xu
Jörg Wicker	Hui Xue
Gerhard Widmer	Yexiang Xue

Nitin Yadav  
Takehisa Yairi  
Seiji Yamada  
Juejie Yan  
Junchi Yan  
Yan Yan  
Yuguang Yan  
Hiroki Yanagisawa  
Bin Yang  
Bishan Yang  
Erkun Yang  
Haitong Yang  
Hongxia Yang  
Jianbo Yang  
Jufeng Yang  
Liang Yang  
Linjie Yang  
Min Yang  
Ming Yang  
Peng Yang  
Peng Yang  
Qian Yang  
Shuo Yang  
Tianbao Yang  
Xiaojun Yang  
Yang Yang  
Yaqin Yang  
Yingzhen Yang  
Yongjie Yang  
Zhenyu Yang  
Berrin Yanikoglu  
Margot Yann  
Georgios Yannakakis  
Jin-ge Yao  
Junjie Yao  
Lina Yao  
Yazhou Yao  
Roland Yap  
Mark Yatskar  
Ibanez Garcia Yazmin Angelica  
Hao Ye  
Mao Ye  
Mi-Yen Yeh  
Peter Yeh  
Reyyan Yeniterzi  
Florian Yger  
Hongzhi Yin  
Junfu Yin  
Wenpeng Yin  
Zhijun Yin  
Shihui Ying  
Logan Yliniemi  
Koichiro Yoshino  
Takayuki Yoshizumi  
Shan You

Jay Young  
Jianfei Yu  
Mo Yu  
Rose Yu  
Wenjian Yu  
Xiaotian Yu  
Yintao Roger Yu  
Zhengtao Yu  
Zhou Yu  
Zhou Yu  
Changhe Yuan  
Wenzhen Yuan  
Fouad Zablith  
Marco Zaffalon  
Osmar Zaiane  
Anna Zamansky  
Marcos Zampieri  
Alessandro Zanarini  
Marina Zanella  
Haifa Zargayouna  
Gerson Zaverucha  
Riccardo Zese  
Feifei Zhai  
Baichuan Zhang  
Changqing Zhang  
Chao Zhang  
Debing Zhang  
Dongyu Zhang  
Fuzheng Zhang  
Hao Zhang  
Heng Zhang  
Jianjia Zhang  
Jiawei Zhang  
Jilian Zhang  
Lefei Zhang  
Luming Zhang  
Meishan Zhang  
Meng Zhang  
Peng Zhang  
Qi Zhang  
Quanshi Zhang  
Richong Zhang  
Rui Zhang  
Shengyu Zhang  
Shichao Zhang  
Teng Zhang  
Wei Zhang  
Wei Emma Zhang  
Wei-Nan Zhang  
Weizhong Zhang  
Xiaofeng Zhang  
Xiaowang Zhang  
Yingqian Zhang  
Yongfeng Zhang  
Yuanlin Zhang

Yuting Zhang  
Zhao Zhang  
Zhaoxiang Zhang  
Zhenjie Zhang  
Zhihong Zhang  
Zhiwei Zhang  
Zongzhang Zhang  
Dengji Zhao  
Junzhou Zhao  
Liming Zhao  
Miao Zhao  
Peilin Zhao  
Pengpeng Zhao  
Wayne Xin Zhao  
Xishun Zhao  
Yanchang Zhao  
Zhou Zhao  
Feng Zheng  
Kai Zheng  
Kang Zheng  
Liang Zheng  
Vincent Zheng  
Wei-Long Zheng  
Wei-Shi Zheng  
Yingbin Zheng  
Zibin Zheng  
Jiang Zhong  
Jinhong Zhong  
Aimin Zhou  
Chuan Zhou  
Dawei Zhou  
Deyu Zhou  
Hao Zhou  
Jiayu Zhou  
Junsheng Zhou  
Luping Zhou  
shuchang zhou  
Shuigeng Zhou  
Wengang Zhou  
Xiangmin Zhou  
Xiaowei Zhou  
Yi Zhou  
Chengzhang Zhu  
En Zhu  
Hengshu Zhu  
Jianke Zhu  
Lei Zhu  
Pengfei Zhu  
Qi Zhu  
Tianqing Zhu  
Xiaodan Zhu  
Xiaofeng Zhu  
Yada Zhu  
Yue Zhu  
Zexuan Zhu

Zhanxing Zhu  
Zhiqiang Zhuang  
Zhu Zichen  
Yair Zick  
Albrecht Zimmermann  
Roie Zivan  
Standa Živný  
Chuhang Zou  
Ester Zumpano

## Review Assistants

Jackson Abascal  
Pablo Accusto  
Swapna Agarwal  
Pantelis Agathangelou  
Ulrich Matchi Aivodji  
Deepak Ajwani  
Özgür Akgün  
Marco Alberti  
Elias Alevizos  
Marjan Alirezaie  
Pegah Alizadeh  
Mohammed Almukaynizi  
Hamidreza Alvari  
Pascal Amsili  
Merlinda Andoni  
Henrik Andreasson  
Ignasi Andres  
Susan Anyosa  
Vincent Armant  
Yogesh Balaji  
Sambaran Bandyopadhyaya  
Erkan Basar  
Merijn Beeksma  
Gregor Behnke  
Maria Jose Benitez-Caballero  
Elena Bellodi  
Gleb Belov  
Matthias Bentert  
Gabor Berend  
Julian Berk  
Sukalyan Bhagat  
Sumit Bhatia  
Brojeshwar Bhowmick  
Antonis Bikakis  
Livio Bioglio  
Filippo Bistaffa  
Johan Bjorck  
Paul Bodily  
Jori Bomanson  
Jérôme Bosche  
Glenda Botelho  
Haya Brama  
Alex Bravo

Anibal Bregon  
Tom Bruls  
Maximiliano Celmo David Budan  
Antonio Bucchiarone  
Thiago Bueno  
Riccardo Caccavale  
Jianrui Cai  
Alberto Camacho  
Mengfei Cao  
Xiangyong Cao  
Yuren Cao  
Bruno Caprile  
Romuald Carette  
Daniele Castellana  
Elliot Catt  
Luca Cattelani  
Mithun Chakraborty  
Cong Chen  
Huimin Chen  
Kaifeng Chen  
Nutan Chen  
Xu Chen  
Yun-Chen Chen  
Zaiyi Chen  
Zixuan Chen  
Chris Christodoulou  
Maxime Clément  
Benjamin Cogrel  
Liat Cohen  
Quentin Cohen-Solal  
Francis Colas  
Mathieu Collet  
Frances Cooper  
Cristina Cornelio  
Giuseppe Cota  
Zhe Cui  
Tiago Cunha  
Fabio D'Asaro  
Carlo D'Eramo  
Raj Dabre  
Anh Dang  
Matthew Davis  
Heidar Davoudi  
David De Frutos-Escrig  
Ayush Deewan  
Warren Del-Pinto  
Argyrios Deligkas  
Bartolomeo Della Corte  
Ambra Demontis  
Eliezer de Souza da Silva  
Chiara Di Francescomarino  
Luca Di Gaspero  
Antonio Di Stasio  
Emmanuelle Dietz Saldanha  
Kien Do

Trong Dinh Thac Do  
Carmine Dodaro  
Haluk Dogan  
Irina Dragoste  
Jiachen Du  
Han Du  
Lan Du  
Kevin Duh  
Yann Dujardin  
Adam Earle  
Edith Elkind  
Jan Elffers  
Stefan Ellmauthaler  
Salomé Eriksson  
Sayed Esmaeili  
Diego Esteves  
Daniele Evangelista  
Flavio Everardo  
Kshitij Fadnis  
Marco Faella  
Lijie Fan  
Gabriele Farina  
Fabio Fassetti  
Fuli Feng  
Everlandio Fernandes  
Arnaud Ferré  
Maximilian Fickert  
Zack Fitzsimmons  
Francesca Fracasso  
Santiago Franco  
Katsuhide Fujita  
Antonino Furnari Paul Gainer  
Andrea Galassi  
Claudio Gallicchio  
Javier Garcia  
Luis Paulo Garcia  
Thibault Gateau  
Lorenzo Gatti  
Clément Gautrais  
Liuhaio Ge  
Lieke Gelderloos  
Ganesh Ghalme  
Nicola Gigante  
Paolo Giuliadori  
Stephan Gocht  
Julio Godoy  
Sujatha Das Gollapalli  
Bharath Gopalakrishnan  
Sergio Gonzalez-Elizondo  
Loïc Grobol  
Jean-Luc Guérin  
Riccardo Guidotti  
Qing Guo  
Xiaojie Guo  
Ziyi Guo

Kavya Gupta  
Elem Güzel  
Christian Hadiwinoto  
Zeynep Hakguder  
Xu Han  
Ioannis Havoutis  
Amir Hazem  
Kun He  
Eniko Heja  
Erik Herrmann  
Manuel Heusner  
Thanh-Tung Hoang  
Johannes Hofbauer  
Kunihito Hoki  
Daniel Höller  
Shudong Huang  
Ting-Hao Huang  
Wenyi Huang  
Carlo Ieva  
Angelo Impedovo  
Marco Imperoli  
Roberto Interdonato  
Mohammad Islam  
Alon Jacovi  
Yasser Jafer  
Steven James  
Magdalena Jankowska  
Nils Jansen  
Krishna Murthy Jatavallabhula  
Songlei Jian  
Chong Jiang  
Jingtian Jiang  
Cheng Jin  
HyunJoon Jung  
Andrzej Kaczmarczyk  
Shima Kashef  
Abdul Karim  
Laura Kasper  
Saurabh Kataria  
Hiroharu Kato  
Georgios Katsimpras  
Vishal Kaushal  
Yevgeny Kazakov  
Orgad Keller  
Tom Kelsey  
Philip Kilby  
Sabrina Kirrane  
Michal Knapik  
Ryosuke Kojima  
Shufeng Kong  
Frédéric Koriche  
Adam Kosiorek  
Dimitris Kotsakos  
Grammateia Kotsialou  
Daniel Kottke

Paraskevas Koukaras  
Kalliopi Kravari  
Alexander Kroner  
Lun-Wei Ku  
Ayse Kucukyilmaz  
Vishwajeet Kumar  
Orna Kupferman  
Damian Kurpiewski  
Charlotte Laclau  
Evelina Lamma  
Dominik Lang  
Javier Larrosa  
Hung Le  
Lei Le  
Pierre Le Bodic  
Yahia Lebbah  
Erwan Lecarpentier  
Young Lee  
Felipe Leno da Silva  
Yoad Lewenberg  
Cheng Li  
Gang Li  
Jiawei Li  
Jing Li  
Jingling Li  
Jinxing Li  
Le Li  
Peng Li  
Tongyang Li  
Wenhui Li  
Xintong Li  
Yandong Li  
Yi Li  
Yuanqing Li  
Yuqian Li  
Zhihui Li  
Yan Liang  
Pieter Libin  
Daryl Lim  
Isaque Lima  
Jiahao Lin  
Hamilton Link  
Yankai Lin  
Jonathan Liono  
Bin Liu  
Jialin Liu  
Jing Liu  
Kun Liu  
Qi Liu  
Sheng Liu  
Yaoyao Liu Ye Liu  
Yucheng Liu  
Leonardo Llanos Campillos  
Fábio Lobato  
David Lobo

Salvatore Lopes  
Daniela Loreti  
Juan Antonio Lossio-Ventura  
Jian Lou  
Miao Lu  
Yao Lu  
Simon Lucas  
Patrick Lühne  
Fulin Luo  
Sihui Luo  
Francesco Lupia  
Fan Ma  
Fenglong Ma  
Mehdi Maamar  
Vitor Machado  
João Machado Santos  
Shir Maimon  
Davide Maiorca  
Sultan Majeed  
Debmalya Mandal  
Masoumeh Mansouri  
Theofrastos Mantadelis  
Rafael Mantovani  
Zhendong Mao  
Ricardo Marcacini  
Letizia Marchegiani  
Alberto Marchesi  
Marco Marchini  
Ericsson Marin  
Ofir Marom  
Dominique Martinez  
Fernando Martinez-Plumed  
Gonçalo Martins  
Maximilian Marx  
Bastien Maubert  
Jacopo Mauro  
Audra McMillan  
Marco Melis  
Corrado Mencar  
Chen Meng  
Alberto Maria Metelli  
Dimitrios Milios  
Thomas Moerland  
Alberto Molinari  
Ayan Mukhopadhyay  
Kumap Nahro  
David Narváez  
Samba Ndojh Ndiaye  
Gergely Neu  
Phuoc Nguyen  
Vu Nguyen  
Siegfried Nijssen  
Arianna Novaro  
Alessandro Nuara  
Eric Nunes

Philipp Obermeier  
Svetlana Obraztsova  
Aljaž Osojnik  
Mayu Otani  
Jan Otop  
Le Ou-Yang  
Abdelkader Ouali  
Gözde Özbal  
Divya Padmanabhan  
Vivin Paliath  
Zhiyuan Pan  
Shimei Pan  
Swetasudha Panda  
Harit Pandya  
Matteo Papini  
Andrea Patane  
Suvam Patra  
Truls Pedersen  
Hao Peng  
Maximilian Pensele  
José Luis Pérez de la Cruz Molina  
Filipo Perotto  
Andrew Perrault  
Matej Petković  
Nathalie Peyrard  
Trang Pham  
Paulo Henrique Pisani  
Martin Plajner  
Marco Polignano  
Pascal Poncelet  
Caroline Ponzoni Carvalho Chanel  
Hanieh Poostchi  
Rémy Poulain  
Eleanor Quint  
Mohammad Saiedur Rahaman  
Mjose Ramirez  
Diego Ramírez Echavarría  
Pravesh Ranchod  
Jennifer Renoux  
Jason Rhuggenaath  
Francesco Riccio  
Emmanouil Rigas  
Adriano Rivoli  
Raine Rönnholm  
Carl Martin Rosenberg  
Ariel Rosenfeld  
Adrien Rougny  
Dimitris Rousidis  
Clemente Rubio-Manzano  
Shakila Khan Rumi  
Pierre Rust  
Luca Sabatucci  
Leif Sabellek  
Amin Sadri  
Arindam Saha

Suman Saha  
Christian Saile  
Olimpiya Saha  
Pietro Sala  
Rohit Saluja  
Marina Santini  
Andrew Santosa  
Alessandro Sapienza  
Antonia Saravanou  
Zeynep G. Saribatur  
Soumajyoti Sarkar  
Marvin Schiller  
Aaron Schlenker  
Hannes Schulz  
Chris Schwiegelshohn Hanie Sedghi  
Sungyong Seo  
Elham Shaabani  
Nisarg Shah  
Somayeh Shahsavarani  
Chandramouli Shama Sastry  
Wenling Shang  
Rui Shao  
Wei Shao  
Ehsan Sherkat  
Wei Shi  
Alexander Shleyfman  
Yash Shrestha  
Nikola Simidjievski  
Gurkirt Singh  
Sanjana Sinha  
Sriram Siva  
Jacek Skryzalin  
Tadej Skvorc  
Dennis Soemers  
Hui Song  
Manuel Sorge  
Stefanie Speichert  
Helge Spieker  
Denis Steckelmacher  
Michal Štolba  
Christian Stricker  
Martin Strobel  
Jiaohao Su  
Xing Su  
Sandeep Subramanian  
Alessandro Suglia  
Liyan Sun  
Andrea Tagarelli  
Carlo Taticchi  
Maguelonne Teisseire  
Catherine Tessier  
Serra Sinem Tekiroglu  
Tinu Theckel Joy  
Petr Tichavsky  
Andrea Tirinzoni

Federico Tombari  
Antonela Tommasel  
Alejandro Torreño  
Trung Kien Tran  
University Trieste  
James Trimble  
Alan Tsang  
Cunchao Tu  
Ming Tu  
Grigorios Tzortzis  
Alessandro Umbrico  
Patrick Axel Urbanke  
Muhammad Hamza Usmanai  
Dmitry Ustalov  
Benjamin van Niekerk  
Lise-Marie Veillon  
Badri Vellambi  
Daniele Vilone  
Erwin Walraven  
Ruosi Wan  
Cuiyuan Wang  
Fangfang Wang  
Jianyu Wang  
Longyue Wang  
Qing Wang  
Xiang Wang  
Xing Wang  
Yaqing Wang  
Yishen Wang  
Daniel Weimer  
Anaëlle Wilczynski  
Bryan Wilder  
Jacob Williams  
Piers Williams  
Audrey Wilmet  
Nicolai Wojke  
Bradley Woosley  
Mason Wright  
Di Wu  
Jingfeng Wu  
Lei Wu  
Mengxiao Wu  
Markus Wulfmeier  
Eric Würbel  
Shuo Xiang  
Pan Xiao  
Ning Xie  
Ji Xin  
Miao Xu  
Ning Xu  
Guangxu Xun  
Jing Ya  
Yan Yan  
Cheng Yang  
Chih-Yuan Yang

Junfeng Yang  
Yi Yang  
Jianqiang Yao  
Quanming Yao  
Jinmian Ye  
Mang Ye  
Xuchen You  
Bing Yu  
Jiahui Yu  
Jin-Gang Yu  
Tan Yu  
Fajie Yuan  
Amrapali Zaveri  
Runhao Zeng  
Ziqian Zeng  
Chi Zhang  
Hengtong Zhang  
Junzhe Zhang  
Kai Zhang  
Xiao Zhang  
Yongshan Zhang  
Ziyu Zhang  
Huan Zhao  
Peng Zhao  
Yao Zhao  
Lin Zheng

Qian Zhang  
Wen Zhong  
Chang Zhou  
Jiyun Zhou  
Joey Tianyi Zhou  
Hao Zhu  
Qi Zhu  
Yichun Zhu

## **Special Track on the Evolution of the Contours of AI**

### **Program Committee**

Ronen Brafman (BGU Israel)  
Adnan Darwiche (UCLA, USA)  
Richard Korf (UCLA USA)  
Alan Mackworth (UBC Canada)  
Pedro Meseguer (IIIA Spain)  
David Parkes (Harvard USA)  
Henri Prade (CNRS France)  
Reid Simmons (CMU USA)  
Moshe Tennenholtz (Technion Israel)  
Michael Wellman (U. of Michigan USA)



# IJCAI-18 Sponsorship

## Platinum

Didi ChuXing  
Xiaoi  
Tencent  
JD.com  
Alibaba Group  
Baidu  
Tieto  
Adobe  
Pwc  
Artificial Intelligence Journal

## Gold

Ericsson  
Recorded Future  
Songsu AI Learning

## Silver

Microsoft  
Node Pole  
Nnaisense  
Vinnova  
IBM  
Hitachi  
Sondrel  
Inovia ai  
Figure Eight

## Bronze

Prowler.io  
Nuance

# Awards and Distinguished Papers

The IJCAI-18 Award for Research Excellence, the John McCarthy Award and the Computers and Thought Award are awarded by the IJCAI Board of Trustees, upon recommendation by the IJCAI-18 Awards Selection Committee, which consists this year of

- Marie des Jardins, University of Maryland, Baltimore County (USA)
- Sarit Kraus, Bar-Ilan University (ISRAEL)
- Dan Roth, The Beckman Institute, University of Illinois at Urbana-Champaign (USA)
- Carles Sierra, Artificial Intelligence Research Institute (IIIA) (SPAIN) and
- Michael Wooldridge, Oxford University (Chair) (UK)

The IJCAI Awards Selection Committee receives advice from members of the IJCAI-18 Awards Review Committee, who comment on the accuracy of the nomination material and provide additional information about the nominees. The IJCAI-18 Awards Review Committee is the union of the former Trustees of IJCAI, the IJCAI-18 Advisory Committee, the Program Chairs of the last three IJCAI conferences, and the

past recipients of the IJCAI Award for Research Excellence and the IJCAI Distinguished Service Award, with nominees excluded.

## IJCAI-18 Award for Research Excellence:

The Research Excellence award is given to a scientist who has carried out a program of research of consistently high quality throughout an entire career yielding several substantial results. Past recipients of this honor are the most illustrious group of scientists from the field of Artificial Intelligence.

They are: John McCarthy (1985), Allen Newell (1989), Marvin Minsky (1991), Raymond Reiter (1993), Herbert Simon (1995), Aravind Joshi (1997), Judea Pearl (1999), Donald Michie (2001), Nils Nilsson (2003), Geoffrey E. Hinton (2005), Alan Bundy (2007), Victor Lesser (2009), Robert Anthony Kowalski (2011), Hector Levesque (2013), Barbara Grosz (2015), Michael I. Jordan (2016) and Adrew Barto (2017).

The winner of the 2018 Award for Research Excellence is Jitrendra Malik, Arthur J. Chick Professor of EECS at the University of California at Berkeley. Professor Malik is recognized for the fundamental advances in computer vision. The

Research Excellence award is given to a scientist who has carried out a program of research of consistently high quality throughout an entire career yielding several substantial results. Past recipients of this honor are the most illustrious group of scientists from the field of Artificial Intelligence.

## **IJCAI-18 Computers and Thought Award:**

The Computers and Thought Award is presented at IJCAI conferences to outstanding young scientists in artificial intelligence. The award was established with royalties received from the book, *Computers and Thought*, edited by Edward Feigenbaum and Julian Feldman. It is currently supported by income from IJCAI funds. Past recipients of this honor have been: Terry Winograd (1971), Patrick Winston (1973), Chuck Rieger (1975), Douglas Lenat (1977), David Marr (1979), Gerald Sussman (1981), Tom Mitchell (1983), Hector Levesque (1985), Johan de Kleer (1987), Henry Kautz (1989), Rodney Brooks (1991), Martha Pollack (1991), Hiroaki Kitano (1993), Sarit Kraus (1995), Stuart Russell (1995), Leslie Kaelbling (1997), Nicholas Jennings (1999), Daphne Koller (2001), Tuomas Sandholm (2003), Peter Stone (2007), Carlos Guestrin (2009), Andrew Ng (2009), Vincent Conitzer (2011), Malte Helmert (2011), Kristen Grauman (2013), Ariel Procaccia (2015), Percy Liang (2016) and Devi Parkh (2017).

The winner of the 2018 IJCAI Computers and Thought Award is Stefano Ermon, (link to <https://cs.stanford.edu/ermon/>) Assistant Professor at the Department of Computer Science, Fellow, Woods Institute for the Environment, Stanford University. Professor Ermon is recognized for his foundational work on probabilistic reasoning, machine learning, and decision making, with a range of novel applications in areas with broad societal impact. The Computers and Thought Award is presented at IJCAI conferences to outstanding young scientists in artificial intelligence. The award was established with royalties received from the book, *Computers and Thought*, edited by Edward Feigenbaum and Julian Feldman. It is currently supported by income from IJCAI funds.

## **IJCAI-18 John McCarthy Award:**

The IJCAI John McCarthy Award is intended to recognize established mid-career researchers, typically between fifteen to twenty-five years after obtaining their PhD, that have built up a major track record of research excellence in artificial intelligence. Nominees of the award will have made significant contributions to the research agenda in their area and will have a first-rate profile of influential research results.

The award is named for John McCarthy (1927-2011), who is widely recognized as one of the founders of the field of artificial intelligence. As well as giving the discipline its name, McCarthy made fundamental contributions of lasting importance to computer science in general and artificial intelligence in particular, including time-sharing operating systems,

the LISP programming languages, knowledge representation, common-sense reasoning, and the logicist paradigm in artificial intelligence.

The award was established with the full support and encouragement of the McCarthy family.

Past recipients of this honor have been: Bart Selman (2015), Moshe Tennenholtz (2016) and Dan Roth (2017).

The winner of the 2018 John McCarthy Award is Milind Tambe, Helen N. and Emmett H. Jones Professor in Engineering and Professor of Computer Science & Industrial and Systems Engineering Departments of the University of South California. Professor Tambe is recognized for research and development of important practical applications of AI and multi-agent systems for social good.

## **Donald E. Walker Distinguished Service Award:**

The IJCAI Distinguished Service Award was established in 1979 by the IJCAI Trustees to honor senior scientists in AI for contributions and service to the field during their careers. Previous recipients have been: Bernard Meltzer (1979), Arthur Samuel (1983), Donald Walker (1989), Woodrow Bledsoe (1991), Daniel G. Bobrow (1993), Wolfgang Bibel (1999), Barbara Grosz (2001), Alan Bundy (2003), Raj Reddy (2005), Ronald J. Brachman (2007), Luigia Carlucci Aiello (2009), Raymond C. Perrault (2011), Wolfgang Wahlster (2013), Anthony G. Cohn (2015) Erik Sandewall (2016), and Ramon López de Mántaras (2017).

The IJCAI Distinguished Service Award 2018 will be presented to Craig Knoblock, Research Director, Center on Knowledge Graphs, Research Professor of Computer Science and Spatial Sciences, Division Director of Artificial Intelligence at USC-ISI. Professor Knoblock is recognized for his substantial contributions, as well as his extensive service to the field of Artificial Intelligence throughout his career.

## **Distinguished Papers**

### **Finalists for Distinguished Paper**

Ke Wang, Xiaojun Wan: SentiGAN: Generating Sentimental Texts via Mixture Adversarial Networks

Abstract : Generating texts of different sentiment labels is getting more and more attention in the area of natural language generation. Recently, Generative Adversarial Net (GAN) has shown promising results in text generation. However, the texts generated by GAN usually suffer from the problems of poor quality, lack of diversity and mode collapse. In this paper, we propose a novel framework - SentiGAN, which has multiple generators and one multi-class discriminator, to address the above problems. In our framework, multiple generators are trained simultaneously, aiming at generating texts of different sentiment labels without supervision. We propose a penalty based objective in the generators to force each of them to generate diversified examples of a specific senti-

ment label. Moreover, the use of multiple generators and one multi-class discriminator can make each generator focus on generating its own examples of a specific sentiment label accurately. Experimental results on four datasets demonstrate that our model consistently outperforms several state-of-the-art text generation methods in the sentiment accuracy and quality of generated texts.

Vincenzo Auletta, Diodato Ferraioli, Gianluigi Greco: Reasoning about Consensus when Opinions Diffuse through Majority Dynamics

Abstract: Opinion diffusion is studied on social graphs where agents hold binary opinions and where social pressure leads them to conform to the opinion manifested by their neighbors. Within this setting, questions related to whether a minority/majority can spread the opinion it supports to all the other agents are considered. It is shown that, no matter of the graph given at hand, there always exists a group formed by a half of the agents that can annihilate the opposite opinion. Instead, the influence power of minorities depends on certain features of the underlying graphs, which are NP-hard to be identified. Deciding whether the two opinions can coexist in some stable configuration is NP-hard, too.

Xue Li, Bo Du, Chang Xu, Yipeng Zhang, Lefei Zhang, Dacheng Tao: R-SVM+: Robust Learning with Privileged Information

Abstract: In practice, the circumstance that training and test data are clean is not always satisfied. The performance of existing methods in the learning using privileged information (LUPI) paradigm may be seriously challenged, due to the lack of clear strategies to address potential noises in the data. This paper proposes a novel Robust SVM+ (RSVM+) algorithm based on a rigorous theoretical analysis. Under the SVM+ framework in the LUPI paradigm, we study the lower bound of perturbations of both example feature data and privileged feature data, which will mislead the model to make wrong decisions. By maximizing the lower bound, tolerance of the learned model over perturbations will be increased. Accordingly, a novel regularization function is introduced to upgrade a variant form of SVM+. The objective function of RSVM+ is transformed into a quadratic programming problem, which can be efficiently optimized using off-the-shelf solvers. Experiments on real-world datasets demonstrate the necessity of studying robust SVM+ and the effectiveness of the proposed algorithm.

Cristina Feier, Carsten Lutz, Frank Wolter: From Conjunctive Queries to Instance Queries in Ontology-Mediated Querying

Abstract: We consider ontology-mediated queries (OMQs) based on expressive description logics of the ALC family and (unions) of conjunctive queries, studying the rewritability into OMQs based on instance queries (IQs). Our results include exact characterizations of when such a rewriting is possible and tight complexity bounds for decid-

ing rewritability. We also give a tight complexity bound for the related problem of deciding whether a given MMSNP sentence (in other words: the complement of a monadic disjunctive Datalog program) is equivalent to a constraint satisfaction problem.

Chun Kai Ling, J. Zico Kolter, Fei Fang: What game are we playing? End-to-end learning in normal and extensive form games

Abstract: Although recent work in AI has made great progress in solving large, zero-sum, extensive-form games, the underlying assumption in most past work is that the parameters of the game itself are known to the agents. This paper deals with the relatively under-explored but equally important "inverse" setting, where the parameters of the underlying game are not known to all agents, but must be learned through observations. We propose a differentiable, end-to-end learning framework for addressing this task. In particular, we consider a regularized version of the game, equivalent to a particular form of quantal response equilibrium, and develop 1) a primal-dual Newton method for finding such equilibrium points in both normal and extensive form games; and 2) a backpropagation method that lets us analytically compute gradients of all relevant game parameters through the solution itself. This ultimately lets us learn the game by training in an end-to-end fashion, effectively by integrating a "differentiable game solver" into the loop of larger deep network architectures. We demonstrate the effectiveness of the learning method in several settings including poker and security game tasks.

Hao Zhou, Tom Young, Minlie Huang, Haizhou Zhao, Jingfang Xu, Xiaoyan Zhu: Commonsense Knowledge Aware Conversation Generation with Graph Attention

Abstract: Commonsense knowledge is vital to many natural language processing tasks. In this paper, we present a novel open-domain conversation generation model to demonstrate how large-scale commonsense knowledge can facilitate language understanding and generation. Given a user post, the model retrieves relevant knowledge graphs from a knowledge base and then encodes the graphs with a static graph attention mechanism, which augments the semantic information of the post and thus supports better understanding of the post. Then, during word generation, the model attentively reads the retrieved knowledge graphs and the knowledge triples within each graph to facilitate better generation through a dynamic graph attention mechanism. This is the first attempt that uses large-scale commonsense knowledge in conversation generation. Furthermore, unlike existing models that use knowledge triples (entities) separately and independently, our model treats each knowledge graph as a whole, which encodes more structured, connected semantic information in the graphs. Experiments show that the proposed model can generate more appropriate and informative responses than state-of-the-art baselines.

Giannis Nikolentzos, Michalis Vazirgiannis, Polykarpos Meladianos, Stratis Limnios: A Degeneracy Framework for Graph Similarity

**Abstract:** The problem of accurately measuring the similarity between graphs is at the core of many applications in a variety of disciplines. Most existing methods for graph similarity focus either on local or on global properties of graphs. However, even if graphs seem very similar from a local or a global perspective, they may exhibit different structure at different scales. In this paper, we present a general framework for graph similarity which takes into account structure at multiple different scales. The proposed framework capitalizes on the well-known k-core decomposition of graphs in order to build a hierarchy of nested subgraphs. We apply the framework to derive variants of four graph kernels, namely graphlet kernel, shortest-path kernel, Weisfeiler-Lehman subtree kernel, and pyramid match graph kernel. The framework is not limited to graph kernels, but can be applied to any graph comparison algorithm. The proposed framework is evaluated on several benchmark datasets for graph classification. In most cases, the core-based kernels achieve significant improvements in terms of classification accuracy over the base kernels, while their time complexity remains very attractive.

## Distinguished Reviewers

Distinguished PC and SPC members were selected following this procedure:

Senior Program Committee (SPC) members were invited to judge reviews (and related discussions) by program committee (PC) members on individual papers. Area Chairs (AC) were invited to judge reviews (and related discussions) by SPC and PC members on individual papers. There were 2700 judgments, which means that slightly less than 20% of all reviews have received an evaluation. A reviewer normally becomes distinguished as soon as one of the following conditions is satisfied: one evaluation 9, or two evaluations  $\geq 8$ , or three evaluations  $\geq 7$ , after a quick check from my side. In case there was a negative evaluation ( $> 4$ ), or in case the condition was nearly satisfied (typically : three evaluations 8-7-6), I checked more carefully the reviews and discussions. In borderline cases, the number of reviews written also played a role: more reviews was of course a positive sign (of course, delegated reviews do not count!). In the SPC case, discussion leadership played an important role. A distinguished reviewer normally becomes level-2 distinguished as soon as one of the following conditions is satisfied: two evaluations 9 by two different evaluators, or three evaluations  $\geq 8$  by at least two different evaluators, or four evaluations  $\geq 7$  and at least two  $\geq 8$ , by at least three different evaluators, or three evaluations 9, or four evaluations  $\geq 8$  and two 9. In all cases, I checked all reviews and discussions. A evaluation  $< 5$  is normally a veto to the level-2 distinguished status. Again, in borderline cases, the number of reviews and the activity in discussions played a role. Two level-2 distinguished PC members had four evalu-

ations 9, or three 9 and two 8, by at least four different evaluators. They got the level-3 distinguished status. No SPC got a level-3 distinguished status. There are inevitable biases:

- Because more than 80% of the reviews received no evaluation, there certainly are outstanding PC and SPC members who were unfortunate enough so that almost none of their reviews was evaluated, and therefore do not figure on the list below. This bias is stronger in some areas. If you don't find your name on the list, it may just mean that you did not receive enough evaluations, possibly no evaluation at all. That's life.
- The criteria I used imply that PC and SPC members with more papers assigned have more chance to be distinguished or super-distinguished. Is it fair? Partly yes (more papers means more work), and partly no, because in some areas the average number of papers per PC/SPC was small (however, even in these areas, PC/SPC who made more bids got more papers). In any case,
- For SPC, the quality of the discussions played a major role in the evaluation (whether they were long, active, reactive, etc.). Sometimes none of the assigned papers was worth a long discussion: that's life. But (again) longer discussions also means more work.

The Best reviewers as assessed by peer members of the program committee are listed below.

Legend: \*\* = level 2; \*\*\* = level 3

## Distinguished Program Committee Members

Alessandro Farinelli  
Alexander Bochman  
Alexander Borgida  
Alexandre Niveau \*\*\*  
Alexandros Voudouris  
Alice Toniolo \*\*  
Alvaro Torralba \*\*  
Ana Ozaki  
Anastasia Paparrizou  
Andre Platzer  
Andrea Cohen \*\*  
Andrey Kolobov  
Annalisa Appice  
Antonio Lieto  
Aris Filos-Ratsikas \*\*\*  
Aristidis Likas  
Arjen Hommersom  
Avinash Sharma  
Axel Polleres  
Bart Bogaerts  
Bart de Keijzer  
Battista Biggio  
Ben Hachey  
Bikramjit Banerjee  
Brendan Lucier

Brent Harrison  
Brian O'Neill  
Bruno Bouzy  
Bruno Woltzenlogel Paleo \*\*  
Carmino Rodriguez-Vela  
Carlos Ansotegui  
Carmine Ventre  
Chang-Tien Lu \*\*  
Chao Gao  
Chaokun Wang  
Chenghao Liu  
Chiara Ghidini  
Christian Muise  
Christine Sinoquet  
Christoph Schwering  
Chuan Chen \*\*  
Claudia Schulz  
Clément Carbonnel  
Costas Outras  
Christian Molinaro \*\*  
Cristina Feier  
Cyril Terrioux  
Daniel Kotke  
Daniele Porello  
David Carral \*\*  
David Lo  
Denis Maua  
Derek Doran  
Diane Bouchacourt  
Diderik Roijers  
Dietmar Jannach  
Dimitris Fotakis  
Dinesh Manocha  
Dr. Mansi Charma  
Egor Kostylev  
Emil Weydert \*\*  
Enrique Miranda  
Eva Onaindia  
Fabio Pierazzi  
Fabrice Popineau  
Federico Cerutti  
Florence Dupin de St-Cyr  
Florent Capelli  
Florent Tachteil-Koenigsbuch  
Florian Pommerening  
François Durand  
Gabriele Röger  
Gabriella Cortelessa  
Ganesh Ramakrishnan  
Gary Doran  
Georgios Amanatidis  
Gerson Zaverucha  
Gian Luca Pozzato  
Giovanni Amendola  
Gregory Bonnet

Grigorios Tsoumakas  
Guigang Ding  
Hao-Chuan Wang  
Harold Soh  
Hau Chan  
Hendrik Baier  
Hongteng Xu  
Ievgen Redko  
Ilias Sakelariou  
Ingo Pill  
Ingrid Nunes  
Iris Hendrickx  
Ismail Ilkan Ceylan  
Javier Morales  
Jean-Marie Lagniez  
Jeffrey Chan  
Jens Lehmann  
Jeremy Frank \*\*  
Jérôme Mengin  
Jian Liang  
Jiehua Chen \*\*  
Joanna Drummond  
Joao Vinagre  
Jonathan Scholz  
Joost Vennekens  
Jorge Fandiño  
Jorge Lobo  
Julian Padget  
Julien Lesca  
Junming Shao  
Kai Pulomäki  
Katie Genter  
Katsuhiko Ishiguro  
Ke Gao  
Ken Brown  
Kim Batselier  
Kiran Lakkaraju  
Konstantinos Sechidis  
Kristjonas Cyras \*\*  
Kuang-Jui Hsu \*\*  
Kuldeep Meel  
Kurt Driessens  
Laura Barbulescu  
Laurent Kneip  
Leandro Minku  
Leonard Poon  
Leopoldo Bertossi  
Levi Lelis  
Logan Yliniemi  
Lutz Schröder  
Magdalena Ortiz  
Malte Helmert  
Marcello d'Agostino  
Marcello Errecalde  
Marco Maratea

Marco Montali  
Marco Rospocher  
Marek Cygan  
Marjin Heule  
Marek Kaminski \*\*  
Markus Brill  
Markus Rabe  
Martin Gebser  
Massimiliano Giacomini  
Matti Järvisalo  
Mauro Vallati  
Meinolf Sellmann  
Melinda Gervasio \*\*  
Michael Albert  
Michael Floyd  
Michael Perrot  
Michael Rovatsos  
Michael Thomazo  
Michelangelo Ceci  
Mingkui Tan  
Nadin Kokciyan  
Nghia Hoang \*\*  
Nicholas Mattei  
Nico Görnitz \*\*  
Nico Potyka \*\*  
Nicolas Troquard \*\*  
Nikos Karanikolas  
Noam Hazon  
Ofra Amir  
Oren Sar Shalom  
Ozgur Kafalı  
Pascal Lentzner  
Pascale Sébillot \*\*  
Paul Dunne  
Pedro Sequeira  
Philippe Balbiani  
Pieter Libin  
Ram Ramanujam  
Ramon Pino-Perez  
Régis Sabbadin  
Reshef Meir \*\*  
Ricardo Gonçalves  
Rob Miller  
Robert Brederbeck  
Robert Goldman  
Robert Peharz  
Roberto Iglesias Rodriguez  
Roman Kontchakov  
Ronald de Haan  
Roser Morante  
Rui Abreu  
Rupert Freeman \*\*  
Sasha Rubin \*\*  
Shigeo Matsubara  
Shoushan Li

Silvan Sievers  
Simon Miles  
Snehalkumar 'Neil' Gaikwad  
Stanislav Kikot  
Stefan Borgwardt  
Steffen Michels  
Sunil Gupta  
Takeshi Kurashima  
Thomas Keller \*\*  
Thomas Ploetz \*\*  
Thomas Walsh  
Tiep Le  
Tinghuai Wang  
Tomas Werner  
Tsuyoshi Ide \*\*  
Ulrich Junker  
Umberto Grandi \*\*  
Valentin Goranko  
Vasilis Gkatzelis \*\*  
Vernon Asuncion  
Vincent Thomas  
Vivek Srikumar \*\*  
Wannes Meert  
Warut Suksompong  
Weijan Yu  
William Jarrold  
William Klement \*\*  
Xiangnan He  
Xiaofeng Zhang  
Xiaohui Bei  
Yang Liu  
Yannis Dimopoulos  
Yashaswi Verma \*\*  
Yi Wang  
Yuanfang Guo  
Yuguang Yan  
Yuting Zhang  
Zhao Kang  
Zhao-Rong Lai  
Zhichun Wang  
Zied Elouedi  
Zinovi Rabinovich

#### **Distinguished Senior Program Committee Members**

Alban Grastien \*\*  
Alessio Lomuscio \*\*  
Amaury Habrard  
Ana Bazzan \*\*  
Andre Tettamanzi  
Armin Biere \*\*  
Arthur Choi  
Avi Rosenfeld  
Barry Smyth  
Brian Ziebart

Bruno Castro da Silva \*\*  
Bruno Zanuttini \*\*  
Chris Amato  
Churn-Jung Liau  
Colin de la Higuera  
Daniele Magazzeni  
Daniele Nardi  
Davide Grossi  
Diego Calvanese  
Eric Eaton  
Erin Ntoutsis \*\*  
Emiliano Lorini  
Emily Mower Provost  
Emmanuel Hébrard  
Felip Manya  
Felix Brandt  
Francisco Melo \*\*  
François Yvon  
Frans Oliehoek  
Friedrich Slivovsky  
Geoff Holmes  
George Konidaris \*\*  
Gerard de Melo  
Gerhard Neumann  
Hannu Toivonen  
Hendrik Blockeel  
Horacio Saggion  
Ian Davidson  
Ichiro Takeuchi  
Irwin King  
James Bailey  
James Delgrande  
James Lester  
Jerzy Stefanowski \*\*  
Jiajun Zhang  
Jianfeng Gao  
Joao Leite  
Jochen Renz  
Jörg Muller  
Juan Rodriguez-Aguilar  
Kagan Tumer  
Katie Atkinson  
Katsumi Inoue  
Ke Tang \*\*  
Ken-Ichi Kawarabayashi  
Kota Yamaguchi  
Laurent Simon  
Lei Wang  
Leila Amgoud  
Linli Xu  
Lluís Godó \*\*  
Luis Lamb  
Marie-Laure Mugnier

Marina Meila  
Mark Riedl  
Maxim Likhachev \*\*  
Meghyn Bienvenu  
Mikko Koivisto \*\*  
Ming Li  
Ming-Ming Cheng  
Minglie Huang  
Mohammad Ghavamzadeh  
Nathan Sturtevant  
Neil Yorke-Smith  
Nic Wilson  
Ole Mengshoel  
Olivier Spanjaard  
Pascal Denis  
Paul Harrenstein \*\*  
Peter Grunwald \*\*  
Peter van Beek \*\*  
Philippe Laborie  
Philippe Muller  
Philippe Preux \*\*  
Pierre Zweigenbaum  
Preslav Nakov  
Richard Booth  
Rolf Niedermeier \*\*  
Rui Yan \*\*  
Sanmay Das  
Santiago Ontañón  
Scott Wen-tau Yih  
Sébastien Konieczny  
Serena Villata \*\*  
Simon Parsons \*\*  
Sinno Jialin Pan  
Stefan Szeider  
Steven Schockaert  
Sujian Li  
Sylvain Bouveret  
Thierry Petit  
Thomas Meyer  
Thomas Schiex  
Vangelis Markakis  
Wei Gao \*\*  
William Yeoh \*\*  
Wray Buntine  
Xiaotong Yuan  
Xin Geng  
Xu Sun  
Xuanjing Huang  
Yiping Ke  
Yu Zhang  
Yue Zhang  
Yuko Sakurai

# IJCAI-18 Organisation

## Current Trustees

Prof. Michael Wooldridge (University of Oxford, UK)  
Prof. Qiang Yang (Hong Kong University of Science and Technology, Hong Kong)  
Prof. Subbarao Kambhampati (Arizona State University, USA)  
Prof. Fahiem Bacchus (University of Toronto, Canada)  
Prof. Carles Sierra (IIIA-CSIC, Catalonia, Spain)  
Prof. Jeffrey Rosenschein (The Hebrew University of Jerusalem, Israel)  
Prof. Jérôme Lang (University Paris Dauphine, France)  
Prof. Thomas Eiter (Technische Universität Wien, Austria)  
Prof. Sarit Kraus (University of Maryland, USA)  
Prof. Marie desJardin (Simmons University, USA)  
Prof. Christian Bessiere (CNRS, Université Montpellier, France)

## Trustees elect

Prof. Maria Gini (University of Minnesota Twin Cities, USA)  
Prof. Zhi-Hua Zhou (Nanjing University, China)

## IJCAI secretariat

Prof. Bernhard Nebel (Albert-Ludwigs-Universität Freiburg, Germany)  
Ms. Vesna Sabljakovic-Fritz (Vienna University of Technology, Austria)

## Local arrangements chair 2018

Prof. Fredrik Heintz (Linköping University, Sweden)

## Former trustees serving on the executive committee

Prof. Francesca Rossi (University of Padova, Italy)  
Prof. Gerhard Brewka (Leipzig University, Germany)  
Prof. Craig Knoblock (Univ. of Southern California, USA)  
Prof. Hiroaki Kitano (Sony Computer Science Laboratories, Inc., Japan)  
Prof. Ramon López de Mántaras (IIIA-CSIC, Spain)  
Prof. Fausto Giunchiglia (University of Trento, Italy)  
Prof. Anthony G. Cohn (University of Leeds, UK)  
Prof. Hector Levesque (University of Toronto, Canada)  
Prof. Luigia Carlucci Aiello (U. di Roma La Sapienza, Italy)  
Dr. Michael P. Georgeff (Georgeff International Inc, Australia)  
Dr. C. Raymond Perrault (SRI International, Artificial Intelli-

gence Center, USA)  
Prof. Wolfgang Wahlster (German Research Center for AI (DFKI), Germany)  
Prof. Barbara J. Grosz (Harvard University, USA)  
Prof. Wolfgang Bibel (Darmstadt University of Technology, Germany)  
Prof. Alan Bundy (University of Edinburgh, UK)  
Prof. Alan Mackworth (University of British Columbia, Canada)  
Dr. Patrick J. Hayes (IHMC-UWF, USA)  
Prof. D. Raj Reddy (Carnegie Mellon University, USA)  
Prof. Erik Sandewall (Linköping University, Sweden)

## Other former Trustees

Prof. Sebastian Thrun (Stanford University, USA)  
Prof. Toby Walsh (NICTA, Australia)  
Prof. Manuela M. Veloso (Carnegie Mellon University, USA)  
Prof. Leslie Pack Kaelbling (Massachusetts Institute of Technology, USA)  
Prof. Georg Gottlob (University of Technology Vienna, Austria)  
Prof. Bernhard Nebel (Albert-Ludwigs-Universität, Germany)  
Prof. Thomas Dean (Brown University, USA)  
Prof. Martha E. Pollack (University of Pittsburgh, USA)  
Prof. Chris S. Mellish (University of Edinburgh, UK)  
Prof. Ruzena Bajcsy (University of Pennsylvania, USA)  
Prof. John Mylopoulos (University of Toronto, Canada)  
Prof. John McDermott (Carnegie-Mellon University, USA)  
Prof. Aravind Joshi (University of Pennsylvania, USA)  
Prof. Alan Bundy (University of Edinburgh, UK)  
Prof. Roger Schank (Yale University, USA)  
Prof. Bruce Buchanan (Stanford University, USA)  
Prof. Raj Reddy (Carnegie-Mellon University, USA)  
Prof. Patrick Winston (Artificial Intelligence Laboratory, USA)  
Prof. Saul Amarel (Rutgers University, USA)  
Prof. Woodrow W. Bledsoe (University of Texas at Austin, USA)  
Prof. Max B. Clowes (University of Sussex, UK)  
Prof. David C. Cooper (Swansea University, UK)  
Prof. Alistair D.C. Holden (University of Washington, USA)  
Prof. Ray Reiter (University of Toronto, Canada)  
Dr. N. S. Sridharan (FMC Corporation, Central Engineering Laboratories, USA)  
Dr. Donald E. Walker (Bellcore, Morristown, USA)  
Prof. Carl Hewitt (Artificial Intelligence Laboratory, USA)  
Dr. Nils Nilsson (SRI International, USA)



# Past IJCAI Conferences

This volume contains the proceedings of the twenty-seventh IJCAI conference. The locations and times of all 27 IJCAI conferences are as follows:

- 27 IJCAI-18: Stockholm (July 13-19)
- 26 IJCAI-17: Melbourne, Australia (August 19-25)
- 25 IJCAI-16: New York, USA (July 9-15)
- 24 IJCAI-15: Buenos Aires, Argentina (July 25-31)
- 23 IJCAI-13: Beijing, China (August 3-9)
- 22 IJCAI-11: Barcelona, Catalonia, Spain (July 16-22)
- 21 IJCAI-09: Pasadena, California, USA (July 11-17)
- 20 IJCAI-07: Hyderabad, India (January 6-12)
- 19 IJCAI-05: Edinburgh, Scotland (July 30-August 5)
- 18 IJCAI-03: Acapulco, Mexico (August 9-15)
- 17 IJCAI-01: Seattle, Washington, USA (August 4-10)
- 16 IJCAI-99: Stockholm, Sweden (July 31-August 6)
- 15 IJCAI-97: Nagoya, Japan (August 23-29)
- 14 IJCAI-95: Montreal, Canada (August 20-25)
- 13 IJCAI-93: Chambéry, France (August 28-September 3)
- 12 IJCAI-91: Sydney, Australia (August 24-30)
- 11 IJCAI-89: Detroit, Michigan, USA (August 20-26)
- 10 IJCAI-87: Milan, Italy (August 23-29)
- 9 IJCAI-85: Los Angeles, California, USA (August 18-23)
- 8 IJCAI-83: Karlsruhe, Germany (August 8-12)
- 7 IJCAI-81: Vancouver, Canada (August 24-28)
- 6 IJCAI-79: Tokyo, Japan (August 20-23)
- 5 IJCAI-77: Cambridge, MA, USA (August 22-25)
- 4 IJCAI-75: Tbilisi, Georgia, USSR (September 3-8)
- 3 IJCAI-73: Stanford, California, USA (August 20-23)
- 2 IJCAI-71: London, UK (September 1-3)
- 1 IJCAI-69: Washington, D.C., USA (May 7-9)