

First Call for Papers

# IAS-15

2018

[www.ias-15.org](http://www.ias-15.org)

The 15th International Conference on Intelligent Autonomous Systems  
Congress Center Baden-Baden, Germany, June 11-15, 2018

#### General Chair

Marcus Strand  
Baden-Wuerttemberg Cooperative State  
University, Germany

#### General Co-Chair

Rüdiger Dillmann  
Karlsruhe Institute of Technology, Germany

#### Honorary Chairs

Frans Groen, University of Amsterdam,  
Netherlands  
Enrico Pagello, University of Padua, Italy

#### Advisory Comitee

Sukhan Lee, Sungkyunkwan University, Korea  
Weidong Chen, Shanghai Jiao Tong University,  
China  
Emil Petriu, University of Ottawa, Canada

#### Steering Comitee

Marcelo Ang, National University of Singapore,  
Singapore  
Hajime Asama, University of Tokyo, Japan  
Michael Beetz, Bremen University, Germany  
Henrik Christensen, University of California, USA  
Angel Pasqual Del Pobi, University Jaume 1,  
Spain  
Koh Hosoda, Osaka University, Japan  
Huosheng Hu, University of Exeter, Great Britain  
Jangmyung Lee, Pusan National University, Korea

#### Program Chair

Emanuele Menegatti, University of Padua, Italy

#### Asia Regional Program Chair

Jun Miura,  
Toyohashi University of Technology, Japan

#### Europe/Africa Regional Program Chair

Vitor Sequeira, European Commission - Joint  
Research Center, Italy

#### America Regional Program Chair

Gordon Lee, San Diego State University, USA

#### Financial Chair

Stefanie Speidel,  
National Center for Tumor Diseases, Germany

#### Tutorial Chair

Rosario Sorbello, University of Palermo, Italy

#### Workshop Chair

Philippe Martinet, University of Nantes, France

#### Industrial Activities Chair

Bernhard Schick, Kempten University, Germany

#### Publicity Chair

Mira Gini, University of Minnesota, USA  
Atsushi Yamashita, University of Tokyo, Japan  
Karsten Berns, University of Kaiserslautern,  
Germany  
Jianwei Zhang, University of Hamburg, Germany

#### Publication Chair

Stéphane Ghidoni, University of Padua, Italy

#### Exhibition Chair

Tamim Asfour,  
Karlsruhe Institute of Technology, Germany

#### Sponsoring Chair

Nico Vahrenkamp,  
Karlsruhe Institute of Technology, Germany

#### Awards Chair

Tom Henderson, University of Utah, USA  
Edward Grant, North Carolina State University,  
USA



Important Dates:

SUBMISSION OF FULL PAPERS:	FEB 01, 2018
ACCEPTANCE NOTIFICATION:	APRIL 15, 2018
CAMERA-READY SUBMISSION:	MAY 15, 2018

*Intelligent Autonomous Systems are increasingly applied in various areas ranging from industrial applications to professional service and household domains. New technologies and application domains push forward the need for research and development resulting in new challenges to be overcome in order to apply Intelligent Autonomous Systems in a reliable and user-independent way. Recent advances specifically in the area of Artificial Intelligence, Machine Learning and Adaptive Control enable autonomous systems with improved robustness and flexibility.*

*The 15th conference on Intelligent Autonomous Systems focuses on theory and advanced systems to be applied in industry and society as well as in adverse environments. The international event will bring together scientists, engineers and students on an international stage to present and discuss latest scientific results, technologies and ideas enabling Intelligent Autonomous Systems to perform in a safe, skillful and robust manner handling uncertainty and unforeseen events.*

*The conference will take place in the historical and culturally rich city of Baden-Baden in the Black Forest area of southern Germany. It is conveniently reachable by airplane or train, located close to the border with France.*

#### Topics include but are not limited to

Industrial Mobile Robots	Robot Vision
Collaborative Robots / Cobots	Advanced Obstacle Avoidance
Household Robots	Robot Simulations
Long Term Autonomous Systems	Human-Robot-Interaction
Humanoid Robots	Semantic Modelling
Intelligent Machinery	Intelligent Systems Proving Grounds
Climbing Robots	Augmented Robotics
Outdoor and Field Robots	Data Fusion and Machine Learning
Autonomous Cars	Localization and SLAM
Healthcare Robots	Robots for Industry 4.0
Applied Robots	Robotic Competitions
Flying Robots	Intelligent Sensors and Systems
On-Water/Underwater Robots	Cloud Robotics
Robot Swarms	Intelligent Perception
Biomimetic Robots	Mechatronics for Intelligent Systems

VDE

ITG

✉ [contact@ias-15.org](mailto:contact@ias-15.org)