

ROBOT'2019 Conference Organization

General/Program Chairs

Manuel F. Silva, Polytechnic Institute of Porto, Portugal

José Luís Lima, Polytechnic Institute of Bragança, Portugal

Luís Paulo Reis, University of Porto, Portugal

Alberto Sanfeliu, University Politècnica de Catalunya, Spain

Danilo Tardioli, Centro Universitario de la Defensa / I3A University of Zaragoza, Spain

Financial Chair

Benedita Malheiro, Polytechnic Institute of Porto, Portugal

Local Arrangements Chair

Teresa Costa, Polytechnic Institute of Porto, Portugal

Publications Chairs

Paulo Ferreira, Polytechnic Institute of Porto, Portugal

Pedro Guedes, Polytechnic Institute of Porto, Portugal

Publicity Chair

Pedro Costa, University of Porto, Portugal

Local Organizing Committee

André Dias, Polytechnic Institute of Porto, Portugal

Luís Lima, Polytechnic Institute of Porto, Portugal

Nuno Dias, Polytechnic Institute of Porto, Portugal

Aerial Robotics for Inspection and Maintenance

Organizing Committee

Guillermo Heredia, University of Seville, Spain

Begoña C. Arrue, University of Seville, Spain

Program Committee

Alberto Vale, University of Lisboa, Portugal

André Oliveira, Federal Technological University of Paraná, Brazil

Arturo Torres-González, Universidad de Sevilla, Spain

Augusto Gómez Eguíluz, Universidad de Sevilla, Spain

Bruno J. N. Guerreiro, University of Lisboa, Portugal
Fernando Gomez-Bravo, Universidad de Huelva, Spain
Francisco Javier Perez-Grau, CATEC, Spain
Ja Acosta, Universidad de Sevilla, Spain
Jesus Capitan, Universidad de Sevilla, Spain
Jose Joaquin Acevedo, Universidad de Sevilla, Spain
Julián Estévez, Universidad del País Vasco, Spain
Julio L. Paneque, Universidad de Sevilla, Spain
Marco Wehrmeister, Federal Technological University of Paraná, Brazil
P. J. Sanchez-Cuevas, Universidad de Sevilla, Spain
Pablo Ramon Soria, Universidad de Sevilla, Spain
Saeed Rafee Nekoo, Universidad de Sevilla, Spain
Shayok Mukhopadhyay, American University of Sharjah, Dubai

Agricultural Robotics and Field Automation

Organizing Committee

Filipe Neves Santos, INESC TEC, Portugal
Francisco Rovira Más, Universitat Politècnica de València, Spain
Raul Morais, University of Trás-os-Montes e Alto Douro, Portugal

Program Committee

Dimitrios Paraforos, University of Hohenheim, Germany
Josenalde Oliveira, Federal University of Rio Grande do Norte, Brazil
Luís Rocha, INESC TEC, Portugal
Marcelo Petry, INESC TEC, INESC P&D Brasil, Federal University of Santa Catarina, Brazil
Nieves Pavon-Pulido, Universidad Politécnica de Cartagena, Spain
Paulo Moura Oliveira, University of Trás-os-Montes e Alto Douro, Portugal
Pedro Machado, Nottingham Trent University, UK
Roemi Fernandez, Centre for Automation and Robotics CSIC-UPM, Spain
Tatiana M. Pinho, INESC TEC, Portugal

Autonomous Driving and Driver Assistance Systems

Organizing Committee

Vítor Santos, University of Aveiro, Portugal
Angel Sappa, CVC Barcelona, Spain
Miguel Oliveira, University of Aveiro, Portugal
Arturo de la Escalera, Universidad Carlos III de Madrid, Spain

Program Committee

Andry Pinto, University of Porto, Portugal
Angelos Amanatiadis, Democritus University of Thrace, Greece
António J. R. Neves, University of Aveiro, Portugal
Cristiano Premebida, Loughborough University, UK
David Vázquez Bermúdez, Computer Vision Center, Spain
Eurico Pedrosa, University of Aveiro, Portugal
Fadi Dornaika, University of the Basque Country, Spain
Fernando García, University Carlos III, Spain
Filipe Santos, University of Porto, Portugal
Frederic Lerasle, LAAS-CNRS, France

João Silva, Altran Portugal, Portugal
Jorge Almeida, University of Aveiro, Portugal
Jose A. Castellanos, University of Zaragoza, Spain
José Azevedo, University of Aveiro, Portugal
Luís Rocha, INESC TEC, Portugal
Marko Bertogna, University of Modena, Italy
Paulo Dias, University of Aveiro, Portugal
Pedro Navarro, University Carlos III, Spain
Rafael Sanz Dominguez, Universidad de Vigo, Spain

Autonomous Sailboats and Support Technologies

Organizing Committee

Benedita Malheiro, School of Engineering of the Polytechnic Institute of Porto, Portugal
Jorge Cabrera, Universidad de Las Palmas de Gran Canaria, Spain
Manuel F. Silva, School of Engineering of the Polytechnic Institute of Porto, Portugal
Pedro Guedes, School of Engineering of the Polytechnic Institute of Porto, Portugal

Program Committee

Alexander Schlaefer, Hamburg University of Technology, Germany
Anna Friebe, Åland University of Applied Sciences, Finland
Antonio C. Domínguez-Brito, Universidad de Las Palmas de Gran Canaria, Spain
Benoit Clement, ENSTA Bretagne, France
Colin Sauze, Aberystwyth University, UK
Erik Maehle, University of Luebeck, Germany
Fabrice Le Bars, ENSTA Bretagne, France
Florian Haug, Åland University of Applied Sciences, Finland
Frédéric Plumet, Institut des Systemes Intelligents et de Robotique, France
Hugo Ferreira, INESC TEC, Portugal
Kostia Roncin, ENSTA Bretagne, France
Matias Waller, Åland University of Applied Sciences, Finland
Michael Schukat, NUI Galway, Ireland
Nuno Cruz, University of Porto & INESC TEC, Portugal
Ole Blaurock, Fachhochschule Lübeck, Germany
Oren Gal, Technion, Israel
Paulo Ferreira, School of Engineering of the Polytechnic Institute of Porto, Portugal
Sophia Schillai, University of Southampton, UK
Vincent Creuze, University of Montpellier, France
Vitor Lobo, Escola Naval – CINAV, Portugal

Collaborative Robots for Industry Applications

Organizing Committee

Pedro Neto, University of Coimbra, Portugal
José Lima, Polytechnic Institute of Bragança, Portugal

Program Committee

Adrian Burlacu, The Gheorghe Asachi Technical University of Iasi, Romania
Luís Rocha, INESC TEC, Portugal
Mihail Babcsinchi, University of Coimbra, Portugal
Mohammad Safeea University of Coimbra, Portugal

Nuno Mendes, University of Coimbra, Portugal
Richard Bearee, Arts et Métiers ParisTech, France
Thadeu Brito, Research Centre in Digitalization and Intelligent Robotics, Portugal

Core Concepts for an Ontology for Autonomous Robotics. Genealogy and Engineering Practice

Organizing Committee

Paulo Goncalves, Polytechnic Institute of Castelo Branco, Portugal
Julita Bermejo-Alonso, Universidad Isabel I, Spain
Ricardo Sanz, Universidad Politécnica de Madrid, Spain
Jan Rosell, Universitat Politècnica de Catalunya, Spain
Alberto Olivares Alarcos, Institut de Robòtica i Informàtica Industrial, CSIC-UPC, Spain
João Quintas, Instituto Pedro Nunes, Portugal

Program Committee

Abdelghani Chibani, Université Paris-Est Créteil, France
Carlos Hernández Corbato, Delft University of Technology, The Netherlands
Craig Schlenoff, NIST, USA
Daniel Beffler, University Bremen, Germany
Edson Prestes, Federal University of Rio Grande do Sul, Brazil
Elisa Tosello, University of Padua, Italy
Francisco Ramos, University of Castilla-La Mancha, Spain
Helio Azevedo, University of São Paulo, Brazil
Hirenkumar Chandrakant Nakawala, University of Verona, Italy
Howard Li, University of New Brunswick, Canada
Joanna Isabelle Olszewska, University of West Scotland, UK
Joel Luís Carbonera, Federal University of Rio Grande do Sul, Brazil
Mehul Bhatt, Örebro University, Sweden
Mihai Pomarlan, Universität Bremen, Germany
Mohammed Diab, Universitat Politècnica de Catalunya, Spain
Pablo Bustos, Universidad de Extremadura, Spain
Roseli Romero, University of São Paulo, Brazil
Rui P. Rocha, University of Coimbra, Portugal
Sandro Rama Fiorini, IBM, USA
Stephen Balakirsky, Georgia Institute of Technology, USA
Tamás Haidegger, Óbuda University, Hungary
Veera Ragavan Sampath Kumar, Monash University, Malaysia

Educational Robotics

Organizing Committee

Armando Sousa, University of Porto, Portugal
Francisco Bellas, University of A Coruña, Spain

Program Committee

Andres Faina, IT University of Copenhagen, Denmark
Ângela Cardoso, INEGI, Portugal
Carlos V. Regueiro, University of A Coruña, Spain
Danijel Skocaj, University of Ljubljana, Slovenia

Félix de La Paz López, Universidad Nacional de Educación a Distancia, Spain
Francisco Martín Rico, Universidad Rey Juan Carlos, Spain
José Antonio Becerra Permuy, University of A Coruña, Spain
Jose Santos, University of A Coruña, Spain
Munir Merdan, Practical Robotics Institute Austria, Austria
Oscar Fontenla-Romero, University of A Coruña, Spain
Peter Peer, University of Ljubljana, Slovenia
Valter Costa, INEGI, Portugal
Wilfried Lepuschitz, Practical Robotics Institute Austria, Austria

Field Robotics in Challenging Environments

Organizing Committee

Luis Riazuelo, Universidad de Zaragoza, Spain
Alejandro Mosteo, Centro Universitario de la Defensa, Spain
Danilo Tardioli, Centro Universitario de la Defensa, Spain

Program Committee

David Alejo, University Pablo de Olavide, Spain
Eduardo Montijano, Universidad de Zaragoza, Spain
Fernando Caballero Benítez, University of Seville, Spain
Francisco Lera, University of Zaragoza, Spain
Luis Almeida, University of Porto, Portugal
Luis Merino, Pablo de Olavide University, Spain
Luis Montano, University of Zaragoza, Spain
Yarik Marchukov, Universidad de Zaragoza, Spain

Future Industrial Robotics

Organizing Committee

Germano Veiga, INESC TEC, Portugal
Jon Agirre Ibarbia, TECNALIA, Spain

Program Committee

António Moreira, University of Porto, Portugal
Armando Sousa, University of Porto, Portugal
José Lima, Polytechnic Institute of Bragança, Portugal
Luis Piardi, Research Center in Digitalization and Intelligent Robotics, Portugal
Luís Rocha, INESC TEC, Portugal
Marcelo Petry, INESC TEC, INESC P&D Brasil, Federal University of Santa Catarina, Brazil
Pedro Neto, University of Coimbra, Portugal
Thadeu Brito, Research Centre in Digitalization and Intelligent Robotics, Portugal

General Robotics

Organizing Committee

Manuel F. Silva, Polytechnic Institute of Porto, Portugal
José Luís Lima, Polytechnic of Bragança, Portugal
Luís Paulo Reis, University of Porto, Portugal

Program Committee

Alejandro R. Mosteo, Centro Universitario de la Defensa de Zaragoza, Spain
Alicia Casals, Institute for Bioengineering of Catalonia, Spain
Ana C. Murillo, University of Zaragoza, Spain
André Luís Marcato, Federal University of Juiz de Fora, Brazil
Andry Pinto, INESC TEC, Portugal
Angel Garcia-Olaya, Universidad Carlos III de Madrid, Spain
Antidio Viguria, Center for Advanced Aerospace Technologies, Spain
Antonio Barrientos, Universidad Politécnica de Madrid, Spain
António J. R. Neves, University of Aveiro, Portugal
António Pedro Aguiar, University of Porto, Portugal
António Valente, University of Trás-os-Montes e Alto Douro, Portugal
Armando Sousa, University of Porto, Portugal
B. C. Arrue, University of Seville, Spain
Carlos Carreto, Polytechnic Institute of Guarda, Portugal
Carlos V. Regueiro, University of A Coruña, Spain
Estela Bicho, University of Minho, Portugal
Filomena Soares, University of Minho, Portugal
Hugo Costelha, Polytechnic Institute of Leiria, Portugal
Isabel Ribeiro, University of Lisboa, Portugal
João Calado, Instituto Superior de Engenharia de Lisboa, Portugal
Joao Sequeira, University of Lisboa, Portugal
Jon Agirre Ibarbia, TECNALIA, Spain
Jose A. Castellanos, University of Zaragoza, Spain
José Azevedo, University of Aveiro, Portugal
Josep Amat, Universitat Politècnica de Catalunya, Spain
Lino Marques, University of Coimbra, Portugal
Luis Almeida, University of Porto, Portugal
Luís Correia, University of Lisboa, Portugal
Luis Merino, Pablo de Olavide University, Spain
Luis Moreno, Universidad Carlos III de Madrid, Spain
Manuel Ferre, CAR UPM-CSIC, Spain
Marcelo Petry, INESC TEC, INESC P&D Brasil, Federal University of Santa Catarina, Brazil
Micael Couceiro, Ingeniarius, Ltd., Portugal
Miguel Cazorla, University of Alicante, Spain
Nuno Cruz, University of Porto, Portugal
Oscar Reinoso, Universidad Miguel Hernandez, Spain
Paulo Farias, Federal University of Bahia, Brazil
Paulo Goncalves, Polytechnic Institute of Castelo Branco, Portugal
Pedro Fonseca, University of, Portugal
Pedro U. Lima, University of Lisboa, Portugal
Rui Araújo, University of Coimbra, Portugal
Rui P. Rocha, University of Coimbra, Portugal
Urbano Nunes, University of Coimbra, Portugal
Vicente Feliu, Universidad de Castilla-La Mancha, Spain
Vicente Matellán Olivera, Universidad de León, Spain
Yaroslav Marchukov, Universidad de Zaragoza, Spain

Intelligent Perception and Manipulation

Organizing Committee

Roemi Fernandez, Centre for Automation and Robotics CSIC-UPM, Spain

Filipe Neves Santos, IINESC TEC, Portugal

Program Committee

Hector Montes Franceschi, Universidad Tecnologica de Panama, Panama

Luis Emmi, Centre National de la Recherche Scientifique, France

Manuel Armada, Centre for Automation and Robotics CSIC-UPM, Spain

Pablo Gonzalez-De-Santos, Centre for Automation and Robotics CSIC-UPM, Spain

Machine Learning in Robotics

Organizing Committee

Brígida Mónica Faria, Polytechnic Institute of Porto, Portugal

Luis Merino, Pablo de Olavide University, Spain

Guillem Alenyà, Institut de Robòtica i Informàtica Industrial CSIC-UPC, Spain

Adrià Colomé, Universitat Politècnica de Catalunya, Spain

Program Committee

Alexandra Oliveira, Polytechnic Institute of Porto, Portugal

Ana Lopes, University of Coimbra, Portugal

Armando Sousa, University of Porto, Portugal

Carme Torras, Institut de Robòtica i Informàtica Industrial CSIC-UPC, Spain

Fernando Caballero Benítez, University of Seville, Spain

Luís Paulo Reis, University of Porto, Portugal

Manuel F. Silva, Polytechnic Institute of Porto, Portugal

Marcelo Petry, INESC TEC, INESC P&D Brasil, Federal University of Santa Catarina, Brazil

Noé Pérez-Higueras, Pablo de Olavide University, Spain

Nuno Lau, University of Aveiro

Mobile Robots for Industrial Environments

Organizing Committee

Luis Piardi, Federal Technological University of Paraná, Brazil

José Lima, Polytechnic Institute of Bragança, Portugal

Program Committee

Alberto Nakano, Federal Technological University of Paraná, Brazil

Ana Pereira, Polytechnic Institute of Bragança, Portugal

André Oliveira, Federal Technological University of Paraná, Brazil

André Scolari, Federal University of Bahia, Brazil

Andry Pinto, INESC TEC, Portugal

António Valente, University of Trás-os-Montes e Alto Douro, Portugal

Giovanni Muscato, University of Catania, Italy

João Alberto Fabro, Federal Technological University of Paraná, Brazil

Jonas Queiroz, University of Porto, Portugal

José Rufino, Polytechnic Institute of Bragança, Portugal

Jun Ota, The University of Tokyo, Japan

Nelson Rodrigues, University of Porto, Portugal

Paulo Costa, University of Porto, Portugal

Pedro Costa, University of Porto, Portugal

Ronnier Rohrich, Federal Technological University of Paraná, Brazil

Thadeu Brito, Research Centre in Digitalization and Intelligent Robotics, Portugal

Vítor Hugo Pinto, University of Porto, Portugal
Vítor Santos, University of Aveiro, Portugal

Radar-Based Applications for Robotics

Organizing Committee

Francisco Curado, University of Aveiro, Portugal
Eurico Pedrosa, University of Aveiro, Portugal

Program Committee

Alberto Vale, University of Lisboa, Portugal
Ana Maria Tome, Universidade Aveiro, Portugal
Bo Tan, Tampere University, Finland
Daniel Albuquerque, Polytechnic Institute of Viseu, Portugal
Eugénio A.M. Rocha, University of Aveiro, Portugal
Fernando Alvarez, University of Extremadura, Spain
Giulio Reina, University of Salento, Italy
Jesus Urena, University of Alcala, Spain
José Vieira, University of Aveiro, Portugal
Lino Marques, University of Coimbra, Portugal
Nuno Lau, University of Aveiro, Portugal
Paulo Monteiro, University of Aveiro, Portugal
Rafael Caldeirinha, Polytechnic Institute of Leiria, Portugal
Teodoro Aguilera, University of Extremadura, Portugal

Rehabilitation and Assistive Robotics

Organizing Committee

Brígida Mónica Faria, Polytechnic Institute of Porto, Portugal
Cristina Santos, University of Minho, Portugal
Juan C. Moreno, Cajal Institute, Spain

Program Committee

Alejandro Linares-Barranco, University of Seville, Spain
Alexandra Oliveira, Polytechnic Institute of Porto, Portugal
Alicia Casals, Institute for Bioengineering of Catalonia, Spain
Antonio J. Del-Ama, National Hospital for Spinal Cord Injury, Spain
Eduardo Iáñez, Miguel Hernández University of Elche, Spain
Filomena Soares, University of Minho, Portugal
Luís Paulo Reis, University of Porto, Portugal
Manuel F. Silva, Polytechnic Institute of Porto, Portugal
Marcelo Petry, INESC TEC, INESC P&D Brasil, Federal University of Santa Catarina, Brazil
Marco Ceccarelli, University of Rome Tor Vergata, Italy
Nicolas Garcia-Aracil, Universidad Miguel Hernandez, Spain

Simulation in Robotics

Organizing Committee

Nuno Lau, University of Aveiro, Portugal

Artur Pereira, University of Aveiro, Portugal

Program Committee

Antonio Morales, Universitat Jaume I, Spain

Blas M. Vinagre, University of Extremadura, Spain

Brígida Mónica Faria, Polytechnic Institute of Porto, Portugal

Enrique Valero, Heriot Watt University, UK

Eurico Pedrosa, University of Aveiro, Portugal

Joao Fabro, Federal Technological University of Parana, Brazil

José Lima, Polytechnic Institute of Bragança, Portugal

Nicolas Jouandeau, Paris8 University, France

Paulo Gonçalves, Polytechnic Institute of Castelo Branco, Portugal

Richard Duro, University of A Coruña, Spain

Rosaldo Rossetti, University of Porto, Portugal

XXth Workshop on Physical Agents

Organizing Committee

Vicente Matellán Olivera, Universidad de León, Spain

Miguel Ángel Cazorla Quevedo, Universidad de Alicante, Spain

Pablo Bustos García de Castro, Universidad de Extremadura, Spain

Ismael Garcia-Varea, Universidad de Castilla la Mancha, Spain

Program Committee

Agapito Ledezma, Universidad Carlos III de Madrid, Spain

Antonio Bandera, University of Malaga, Spain

Camino Fernández Llamas, Universidad de León, Spain

Carlos V. Regueiro, University of Coruña, Spain

Cristina Romero González, Universidad de Castilla-La Mancha, Spain

Domeneç Puig Valls, Universitat Rovira i Virgili, Spain

Eugenio Aguirre, University of Granada, Spain

Fernando Fernandez, Universidad Carlos III de Madrid, Spain

Francisco J. Rodríguez Lera, Universidad de León, Spain

Francisco Martín Rico, Universidad Rey Juan Carlos, Spain

Humberto Martinez Barbera, Universidad de Murcia, Spain

Joaquín López Fernández, University of Vigo, Spain

Jose Manuel Lopez-Guede, Basque Country University, Spain

Jose Maria Cañas Plaza, Universidad Rey Juan Carlos, Spain

Juan Pedro Bandera Rubio, Universidad de Málaga, Spain

Lluís Ribas-Xirgo, Universitat Autònoma de Barcelona, Spain

Luis M. Bergasa, Universidad de Alcalá, Spain

Manuel Ocaña Miguel, Universidad de Alcalá de Henares, Spain

Pedro Jesús Reche López, Universidad de Jaén, Spain

Pedro Núñez, Universidad de Extremadura, Spain

Pilar Bachiller, Universidad de Extremadura, Spain

Roberto Iglesias Rodríguez, University of Santiago de Compostela, Spain