



WAF2020 Conference link: <https://eu.bbcollab.com/guest/c36e376444214941881f5dff4e0ec52c>

Thursday, November 19th	
9:00-9:10	Conference opening: Francisco J. de la Mata (Vice President for Research and Transfer at UAH) and Luis M. Bergasa (General Chair)
9:10-10:10	Keynote speaker: Pablo Fernández-Alcantarilla
10:10-11:50	Session 1 - Autonomous navigation, localization and mapping Chair: Manuel Ocaña (manuel.ocanna@uah.es)
	S1P1. Defining Adaptive Proxemic Zones for Activity-aware Navigation Jonatan Ginés, Francisco Martín Rico, Francisco J. Rodríguez-Lera, José Miguel Guerrero and Vicente Matellán
	S1P2. Lifelong Object Localization in Robotic Applications Cristina Romero-González, Jesús Martínez-Gómez and Ismael García-Varea
	S1P3. Estimation of Customer Activity Patterns in Open Malls by Means of Combining Localization and Process Mining Techniques Manuel Ocaña, Ángel Llamazares, Pedro A. Revenga, Miguel A. García-Garrido, Noelia Hernández, Pedro Álvarez, Javier Fabra, David Chapela-Campa, Manuel Mucientes, Manuel Lama, Alberto Bugarín and Jose M. Alonso
	S1P4. Train Here, Drive There: Simulating Real-world Use Cases with Fully-autonomous Driving Architecture in CARLA Simulator Carlos Gómez-Huélamo, Javier Del Egido, Luis M. Bergasa, Rafael Barea, Elena López-Guillén, Felipe Arango, Javier Araluce and Joaquín López
	S1P5. DQN-based Deep Reinforcement Learning for Autonomous Driving Óscar Pérez-Gil, Rafael Barea, Elena López-Guillén, Luis M. Bergasa, Pedro Revenga, Rodrigo Gutiérrez, Alejandro Díaz
11:50-12:10	Coffee break 1
12:10-13:30	Session 2 - Mobile and social robots Chair: Pedro Revenga (pedro.revenga@uah.es)
	S2P1. Concept Drift Detection and Adaptation for Robotics and Mobile Devices in Federated and Continual Settings Fernando E. Casado, Dylan Lema, Roberto Iglesias, Carlos V. Regueiro and Senén Barro
	S2P2. QoS Metrics-In-the-loop for better Robot Navigation <i>Renan Salles</i> , Adrián Romero-Garcés, Rebeca Marfil, Cristina Vicente-Chicote, Jesús Martínez-Cruz, Juan F. Inglés-Romero and Antonio Bandera
	S2P3. DSR_d : A proposal for a low-latency, distributed working memory for CORTEX Pablo Bustos, Juan C. García, Ramón Cintas, Esteban Martirena, Pilar Bachiller, Pedro Núñez and Antonio Bandera
	S2P4. Multi-Agent System Model of Taxi Fleets Lluís Ribas-Xirgo

13:30-15:00	Lunch
15:00-16:40	Session 3 - Human Robot Interaction Chair: Luis M. Bergasa (luis.m.bergasa@uah.es)
	S3P1. Can a Social Robot Learn to Gesticulate Just by Observing Humans? Unai Zabala, Igor Rodríguez, José M. Martínez-Otzeta and Elena Lazkano
	S3P2. Evaluation of a Multi-speaker System for Socially Assistive HRI in Real Scenarios Antonio Martínez-Colón, Raquel Viciano-Abad, José M. Pérez-Lorenzo, Christine Evers and Patrick A. Naylor
	S3P3. Graph Neural Networks for Human-aware Social Navigation Luis J. Manso, Ronit R. Jorvekar, Diego R. Faria, Pablo Bustos and Pilar Bachiller
	S3P4. A Toolkit to Generate Social Navigation Datasets Rishabh Baghel, Aditya Kapoor, Pilar Bachiller, Ronit R. Jorvekar, Daniel Rodríguez-Criado and Luis J. Manso
	S3P5. JBCA: Designing an Adaptive Continuous Authentication Architecture Javier Junquera-Sánchez, Carlos Cilleruelo-Rodríguez, Luis de Marcos and José J. Martínez-Herráiz
16:40-17:00	Coffee break 2
17:00-18:00	REDAF Annual Meeting

Friday, November 20th	
9:00-10:00	Keynote speaker: Antonio López-Pena
10:00-11:40	Session 4 - Perception systems Chair: Rafael Barea (rafael.barea@uah.es)
	S4P1. Optimization of a Robotics Gaze Control System Jaime Duque, Jaime Gómez-García-Bermejo and Eduardo Zalama
	S4P2. Open-Loop Sidescan Sonar Mosaic and ANN Velocity Estimation José M. Bernabé and Humberto Martínez-Barberá
	S4P3. 360° Real-Time 3D Multi-Object Detection and Tracking for Autonomous Vehicle Navigation Javier del Egado, Carlos Gómez-Huélamo, Luis M. Bergasa, Rafael Barea, Elena López-Guillén, Javier Araluce, Rodrigo Gutiérrez and Miguel Antunes
	S4P4. Towards Fine-Tuning of VQA Models in Public Datasets Miguel E. Ortiz, Luis M. Bergasa, Roberto Arroyo, Sergio Álvarez and Aitor Aller
	S4P5. Integrating OpenFace 2.0 Toolkit for Driver Attention Estimation in Challenging Accidental Scenarios Javier Araluce, Luis M. Bergasa, Carlos Gómez-Huélamo, Rafael Barea, Elena López-Guillén, Felipe Arango and Oscar Pérez-Gil
11:40-12:00	Coffee break 3
12:00-13:40	Session 5 - Deep Learning and robotics Chair: Elena López-Guillén (elena.lopezg@uah.es)
	S5P1. Embedded Deep Learning Solution for Person Identification and following with a Robot Ignacio Condés, José M. Cañas and Eduardo Perdices
	S5P2. Survival Loss: A Neuron Death Regularizer Emilio J. Almazán, Javier Tovar and Alejandro de la Calle

	<p>S5P3. Reinforcement Learning Experiments and Benchmark for Solving Robotic Reaching Tasks Pierre Aumjaud, David McAulie, Francisco J. Rodríguez-Lera and Philip Cardiff</p>
	<p>S5P4. Age and Gender Recognition from Speech using Deep Neural Networks Héctor A. Sánchez-Hevia, Roberto Gil-Pita, Manuel Utrilla-Manso and Manuel Rosa-Zurera</p>
	<p>S5P5. Monocular 3D Hand Pose Estimation for Teleoperating Low-cost Actuators Francisco Gómez-Donoso, Félix Escalona, Alejandro Bañuls, Daniel Abellán and Miguel Cazorla</p>
13:40-14:00	Best Paper Award and Conference Closure: Luis M. Bergasa (General Chair)