



## Schedule

### Wednesday, October 25

Creuers Olmos

12:00 am – 1:30 pm **River Cruise**, if selected this day

**Hotel Rull**

1:45 pm – 3:00 pm **Lunch Break**

2:50 pm – 3:10 pm **Registration**

3:10 pm – 3:30 pm **Brief Conference Start**, CCIA 2017 President

3:30 pm – 4:30 pm **Invited Lecture**, Humberto Bustince

chair: Isabel Aguiló

*Pre-Aggregations, Ordered Directionally Monotone Functions, and their Application to Image Processing*

4:30 pm – 5:50 pm **Session 1**, chair: Núria Agell

Fuzzy Logic, Regression and Control Theory

- Fuzzy Actions. *D. Boixader, J. Recasens.*
- On a graded modal logic approach to reason with fuzzy preferences. *F. Esteva, L. Godo, A. Vidal-Wandelmer.*
- On Dynamical Systems for Sensorimotor Contingencies. A First Approach from Control Engineering. *C. Angulo, J.M. Acevedo-Valle.*
- Multivariate Regression with Incremental Learning of Gaussian Mixture Models *J.M. Acevedo-Valle, K. Trejo, C. Angulo.*

5:50 pm – 6:20 pm **Coffee Break**

6:20 pm – 8:00 pm **Session 2**, chair: Cecilio Angulo

Computer Vision and Vision Systems

- Feature Learning for Breast Tumour Classification Using Bio-Inspired Optimization Algorithms. *M. Abdel-Nasser, A. Saleh, A. Moreno, N.S. Tabalvandani, D. Puig.*
- Classification of Breast Cancer Molecular Subtypes from their Micro-Texture in Mammograms using a VGGNet-Based Convolutional Neural Network. *V.K. Singh, S. Romani, J. Torrents-Barrena, F. Akram, N. Pandey, M.K. Sarker, A. Saleh, M. Arenas, M. Arquez, D. Puig.*
- FoodPlaces: Learning Deep Features for Food Related Scene Understanding. *M.K. Sarker, M. Leyva, A. Saleh, V.K. Singh, F. Akram, P. Radeva, D. Puig.*
- Improving the Performance of Diabetic Retinopathy Computer-Aided Diagnosis Systems using an Ensemble of Texture Analysis Methods. *S. Ragab, M. Abdel-Nasser, A. Moreno, D. Puig.*
- A Saliency-boosted Corrosion Detector for the Visual Inspection of Vessels. *F. Bonnin-Pascual, A. Ortiz.*

**EbreTerra Tourist Inspiration Centre**

8:30 pm – 10:30 pm **Official Conference Opening**

Refreshment

## Thursday, October 26

### Hotel Rull

9:00 am – 10:30 am **Session 3**, chair: Lledó Museros

Reasoning and Constraints Satisfaction

- Author-centered argumentation analysis for Twitter discussions. *T. Alsinet, J. Argelich, R. Béjar.*
- Comparing Qualitative Descriptors with Different Granularities and Reference Systems. *Z. Falomir, Ll. Museros, I. Sanz, A. Luque Sendra, L. Gonzalez-Abril.*
- Iterative AWC for Distributed SAT. *J. Giráldez-Cru, J. Lee, P. Meseguer.*
- Solving MaxSAT with Natural Deduction *J. Casas Roma, A. Huertas, F. Manyà.*

10:30 am – 11:00 am **Coffee Break - Posters Session**

11:00 am – 12:00 am **Invited Lecture**, Miquel Domènech

chair: Cecilio Agulo

*Robots for care: a social scientist's view*

12:00 am - 1:00 pm **ACIA Session**, chair: Josep Puyol

Awards and Granted students

- Marc Esteva Vivanco Award. *Best AI Ph.D. Thesis.*
- ACIA Award. *Best AI Master/Bachelor Thesis.*

1:00 pm - 1:45 pm **Posters Session spotlight**, chair: Zoe Falomir

2 minutes presentation

- MFCC vs. MPEG-7 frame description for anuran sound classification. *A. Luque et al.*
- Persuadee Modelling in Computational Argumentation in Marketing. *P. Dellunde et al.*
- Convolutional Neural Networks for Classification of Malware Assembly Code. *D. Gibert et al.*
- Prediction of Glucose Level Conditions from Sequential Data. *N. Mordvanyuk et al.*
- Planning clearing actions in cluttered scenes by phasing in geometrical constraints. *N. Covalero et al.*
- Using Contextual Information in Music Playlist Recommendations. *A. Gatzoura, M. Sanchez-Marre.*
- Target Detection and Tracking for Grasping Sea Floor Objects during Underwater Intervention Operations. *J.P. Company-Corcoles et al.*
- Social sensorimotor contingencies: Towards probing theory of mind in synthetic agents. *M. Sanchez-Fibla et al.*
- Logo Recognition with an Incremental Learning method and Consensus for enabling Blockchain Implementations. *J.Ll. de la Rosa et al.*
- METO: a Motivated and Emotional Task-Oriented 3D Agent. *P. Almajano et al.*
- A genetic algorithm for surgery scheduling optimization in a Mexican public hospital. *G. Rivera et al.*
- Using KMoS-RE in ad hoc Collaborative Network. Flutek: Improvement of the HVAC project process through an Integral AI-Solution. *J. Rodas-Osollo et al.*
- iND: A significant improvement of the Nearness Diagram method for reactive mobile robot navigation. *M.S. Espinosa et al.*
- A Transformational Creativity Tool to Support Musical Composition. *C. Raya et al.*

1:45 pm – 3:00 pm **Lunch Break**

3:00 pm – 4:20 pm **Session 4**, chair: Karina Gibert

Classification

- Recurrent Neural Conditional Random Fields for Target Identification of Tweets. *M. Jabreel, F. Hassan, S. Abdulwahab, A. Moreno.*
- Geo-Temporal Recurrent Model for Location Prediction. *A. Al-Molegi, A. Martinez-Balleste, M. Jabreel.*
- Classifier Selection with Permutation Tests. *M. Arias, A. Arratia, A. Duarte-Lopez.*
- Discovering Subtype Specific n-Gram Motifs in Class C GPCR N-termini *C.L. König, R. Alquezar, A. Vellido, J. Giraldo.*

4:20 pm - 4:50 pm **Posters Session**

**MonNatura Delta de l'Ebre**

5:00 pm - 8:00 pm **MonNatura visit, by bus**

*Please, be on time.*

**Teatre-Auditori Sant Jaume d'Enveja**

8:00 pm - 9:00 pm **ACIA Assembly**

**Restaurant Racó del Riu**

9:00 pm - late night **Gala Dinner**

- CCIA 2017 Award. *Best contribution / Best poster.*
- ACIA Award. *Best AI dissemination work.*

## Friday, October 27

**Hotel Rull**

9:30 am – 10:30 am **Invited Lecture**, Alex Rayón Jerez

chair: René Alquezar

*Marketing Intelligence: cómo optimizar mi estrategia de marketing a través del Big Data*

10:30 am – 11:00 am **Coffee Break**

11:00 am – 12:00 am **Session 5**, chair: Manuel Gonzalez

Image Processing

- Variational Models for Satellite Imaging. *C. Sbert Juan, J. Duran Grimalt, A. Buades, B. Coll.*
- Black Top-Hat y Hit-or-Miss borrosas y sus aplicaciones. *M. González-Hidalgo, S. Massanet, D. Ruiz-Aguilera, P. Bibiloni, A. Mir.*
- Image segmentation using active contours driven by bias fitted image robust to intensity inhomogeneity. *F. Akram, M.A. Garcia, V.K. Singh, N. Saffari, M.K. Sarker, D. Puig.*

12:00 am – 1:00 pm **Session 6**, chair: Aïda Valls

Decision and Recommender Systems

- Integration of different fuzzy rule-induction methods to improve the classification of patients with diabetic retinopathy. *E. Saleh, A. Valls, A. Moreno, P. Romero-Aroca.*
- Using community detection techniques to discover non-explicit relationships in neurorehabilitation treatments. *D. Sanchez-Pinsach, J.L. Arcos, S. Laxe, M. Bernabeu, J.M. Tormos.*
- Building complete menus from nutritional prescriptions by using advanced CBR and real food databases. *B. Sevilla-Villanueva, K. Gibert, M. Sánchez-Marrè.*

