

## ACCEPTED ABSTRACTS

6th Annual Catalan Meeting  
on Computer Vision

### FACE & GESTURES

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- 1 Decky Aspandi, Oriol Martinez, Federico Sukno, Xavier Binefa | Fully End-to-End Composite Recurrent Convolution Network for Deformable Facial Tracking In The Wild | [FG 2019](#)
- 2 Dmytro Derkach, Adria Ruiz, Federico Sukno | Tensor Decomposition and Non-linear Manifold Modeling for 3D Head Pose Estimation | [IJCV 2019](#)

### IMAGE UNDERSTANDING

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- 3 Carles Ventura, Miriam Bellver, Andreu Girbau, Amaia Salvador, Ferran Marques; Xavier Giro-i-Nieto | RVOS: End-to-End Recurrent Network for Video Object Segmentation | [CVPR 2019](#)
- 4 Adrià Arbués-Sangüesa, Gloria Haro, Coloma Ballester | Multi-Person Tracking by Multi-Scale Detection in Basketball Scenarios | [IMVIP 2019](#)
- 5 Xinhang Song, Luis Herranz, Shuqiang Jiang, Chengpeng Chen | Learning Effective RGB-D Representations for Scene Recognition | [TIP 2019](#)
- 6 Miriam Bellver, Amaia Salvador, Jordi Torres, Xavier Giro-i-Nieto | Budget-aware semi-supervised semantic and instance segmentation | [CVPR 2019 DeepVision Workshop](#)
- 7 Aina Ferrà, Eduardo Aguilar, Petia Radeva | Multiple Wavelet Pooling for CNN | [ECCV 2018](#)
- 8 Lu Yu, Vacit Oguz Yazici, Xialei Liu, Joost van de Weijer, Yongmei Cheng, Arnau Ramisa | Learning Metrics from Teachers: Compact Networks for Image Embedding | [CVPR 2019](#)

### LOW LEVEL VISION

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- 9 Carola Figuera, Abel González, Joost van der Weijer, Bogdan Raducanu | Saliency for fine-grained object recognition in domains with scarce training data | [PR 2019](#)
- 10 S.W. Zamir, J. Vazquez-Corral, M.Bertalmío | Vision Models for Wide Color Gamut Imaging in Cinema | [PAMI 2019](#)
- 11 Alexander Gomez-Villa, Adrian Martín, Javier Vazquez-Corral, Marcelo Bertalmío | Convolutional Neural Networks can be deceived by visual illusions | [CVPR 2019](#)
- 12 David Berga, Xosé Fdez-Vidal, Xavier Otazu, Víctor Leborán, Xosé M. Pardo | Generating synthetic images for visual attention modeling | [ECCV 2019](#)

### DOCUMENT ANALYSIS

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- 13 Sounak Dey, Pau Riba, Anjan Dutta, Josep Lladós, Yi-Zhe Song | Doodle to Search: Practical Zero-Shot Sketch-based Image Retrieval | [CVPR 2019](#)
- 14 Rubèn Pérez Tito, Ali F. Biten, Andrés Mafla, Lluís Gomez, Marçal Rusiñol, Ernest Valveny, C.V. Jawahar, Dimosthenis Karatzas | Scene Text Visual Question Answering | [ICCV 2019](#)
- 15 Ali Furkan Biten, Lluís Gomez, Marçal Rusiñol, Dimosthenis Karatzas | Good News, Everyone! Context driven entity-aware captioning for news images | [CVPR 2019](#)

## MULTIMODAL

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16 Amanda Duarte, Francisco Roldan, Miquel Tubau, Janna Escur, Santiago Pascual, Amaia Salvador, Eva Mohedano, Kevin McGuinness, Jordi Torres, Xavier Giro-i-Nieto | [Wav2Pix: Speech-conditioned Face Generation using Generative Adversarial Networks](#) | [ICASSP 2019](#)

17 Alejandro Cartas, Jordi Luque, Petia Radeva; Carlos Segura, Mariella Dimiccoli | [Seeing and Hearing Egocentric Actions: How Much Can We Learn?](#) | [ICCV Workshops 2019](#)

18 Ricardo Dario Pérez Principi, Cristina Palmero, Julio C. S. Jacques Junior, Sergio Escalera | [On the Effect of Observed Subject Biases in Apparent Personality Analysis from Audio-visual Signals](#) | [TAC 2019](#)

## MEDICAL IMAGING

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19 Eloy García; Yago Diez, Oliver Díaz, Xavier Lladó, Albert Gubern-Mérida, Robert Martí, Joan Martí, Arnau Oliver | [Breast MRI and X-ray mammography registration using gradient values](#) | [Medical Image Analysis](#)

20 Md. Mostafa Kamal Sarker, Hatem A. Rashwan, Farhan Akram, Syeda Furruka Banu, Adel Saleh, Vivek Kumar Singh, Forhad U. H. Chowdhury, Saddam Abdulwahab, Santiago Romani, Petia Radeva, Domenec Puig | [SLSDeep: Skin Lesion Segmentation Based on Dilated Residual and Pyramid Pooling Networks](#) | [MICCAI 2019](#)

## APPLICATIONS

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21 Md. Mostafa Kamal Sarker, Hatem A. Rashwan, Farhan Akram, Estefania Talavera, Syeda Furruka Banu, Petia Radeva, Domenec Puig | [Recognizing Food Places in Egocentric Photo-Streams Using Multi-Scale Atrous Convolutional Networks and Self-Attention Mechanism](#) | [IEEE Access 2019](#)

22 Alejandro González, Isabel Betegón-Putze, Xavier Sevillano, David Blasco-Escámez, Ana I. Caño-Delgado | [MyROOT: a method and software for the semiautomatic measurement of primary root length in Arabidopsis seedlings](#) | [The Plant Journal](#)

23 Felipe Codevilla, Antonio M López, Vladlen Koltun, Alexey Dosovitskiy | [On Offline Evaluation of Vision-based Driving Models](#) | [ECCV 2018](#)

24 Felipe Codevilla, Matthias Müller, Alexey Dosovitskiy, Antonio López, Vladlen Koltun | [End-to-end driving via conditional imitation learning](#) | [ICRA 2018](#)

25 Lichao Zhang; Abel Gonzalez-Garcia; Joost van de Weijer; Martin Danelljan; and Fahad Shahbaz Khan | [Synthetic Data Generation for End-to-End Thermal Infrared Tracking](#) | [TIP 2018](#)

26 Eduardo Aguilar Torres, Marc Bolaños, Petia Radeva | [Regularized uncertainty-based multi-task learning model for food analysis](#) | [JVCIR 2019](#)

## LEARNING AND MACHINE PERCEPTION

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27 Xialei Liu, Joost van de Weijer, Andrew D Bagdanov | [Exploiting Unlabeled Data in CNNs by Self-supervised Learning to Rank](#) | [TPAMI 2019](#)

28 Chenshen Wu, Luis Herranz, Xialei Liu, Yaxing Wang, Joost van de Weijer, Bogdan Raducanu | [Memory Replay GANs: learning to generate images from new categories without forgetting](#) | [NeurIPS 2018](#)

29 Ignasi Mas, Ramon Morros; Verónica Vilaplana | [Picking groups instead of samples: A close look at Static Pool-based Meta-Active Learning](#) | [ICCV Workshops 2019](#)