

ACMCV'2020

7th Annual Catalan Meeting
on Computer Vision

VIRTUAL POSTER SESSION

3D Vision & Depth estimation

- P01** – [CLOTH3D: Clothed 3D Humans](#) - Hugo Bertiche; Meysam Madadi; Sergio Escalera
- P02** – [A Method for the Automatic Normalization and 3D Facial Mesh Extraction from Head Magnetic Resonance Imaging](#) - Xavier Sevillano; David Ureña; Rubèn González; Mar Fatjó-Vilas; Raymond Salvador; Edith Pomarol-Clotet; Neus Martínez-Abadías
- P03** – [Generating Human Action Videos by Coupling 3D Game Engines and Probabilistic Graphical Models](#) - César Roberto de Souza; Adrien Gaidon; Yohann Cabon; Naila Murray; Antonio M. López
- P04** – [Semantic Monocular Depth Estimation Based on Artificial Intelligence](#) - Akhil Gurram; Onay Urfalioglu; Ibrahim Halfaoui; Fahd Bouzaraa; Antonio M. López
- P05** – [Ganhand: Predicting human grasp affordances in multi-object scenes](#) - Enric Corona; A Pumarola; G Alenya; F Moreno-Noguer; G Rogez | [VIDEO](#)
- P06** – [Context-aware Human Motion Prediction](#) - E Corona; A Pumarola; G Alenya; F Moreno-Noguer
- P07** – [Spectral Correspondence Framework for Building a 3D Baby Face Model](#) - Araceli Morales, Antonio R. Porras, Liyun Tu, Marius George Linguraru, Gemma Piella and Federico M. Sukno | [PRESENTATION](#)

Egocentric Vision

- P08** – [Topic modelling for routine discovery from egocentric photo-streams](#) - Estefania Talavera; Carolin Wuerich; Nicolai Petkov; Petia Radeva
- P09** - [Hierarchical Approach to Classify Food Scenes in Egocentric Photo-Streams](#) - Estefanía Talavera; Maria Leyva-Vallina; Md. Mostafa Kamal Sarker; Domenec Puig; Nicolai Petkov; Petia Radeva
- P10** – [Uncertainty-aware integration of local and flat classifiers for food recognition](#) - Eduardo Aguilar; Petia Radeva
- P11** – [Activities of Daily Living Monitoring via a Wearable Camera: Toward Real-World Applications](#) - Alejandro Cartas, Petia Radeva, Mariella Dimiccoli

Image & Video Coding

P12 – [Interpreting CNN for Low Complexity Learned Sub-pixel Motion Compensation in Video Coding](#) - Luka Murn; Saverio Blasi; Alan F. Smeaton; Noel E. O'Connor; Marta Mrak | [VÍDEO](#)

P13 - [Variable Rate Deep Image Compression with Modulated Autoencoder](#) - Fei Yang; Luis Herranz; Joost van de Weijer; José A. Iglesias Guitián; Antonio López; Mikhail Mozerov

P14 – [Chroma Intra Prediction with attention-based CNN architectures](#) - Marc Górriz, Saverio Blasi, Alan F. Smeaton, Noel E. O'Connor, Marta Mrak | [VÍDEO](#)

Colour Processing

P15 – [Deep intrinsic decomposition trained on surreal scenes yet with realistic light effects](#) – Hassan A. Sial, Ramon Baldrich, and Maria Vanrell | [POSTER](#)

P16 – [Color matching images with unknown non-linear encodings](#) – Raquel Gil Rodriguez; Javier Vazquez-Corral; Marcelo Bertalmio

P17 – [Understanding trained CNNs by indexing neuron selectivity](#) – Ivet Rafegas, Maria Vanrell, Luís A. Alexandre, Guillem Arias

Video Understanding

P18 – [Gate-Shift Networks for Video Action Recognition](#) - Swathikiran Sudhakaran; Sergio Escalera; Oswald Lanz | [VÍDEO](#) | [POSTER](#)

P19 - [Knowledge-Based Video Question Answering with Unsupervised Scene Descriptions](#) - Noa Garcia, Yuta Nakashima | [VÍDEO](#)

Transfer and Curriculum Learning

P20 – [Curriculum Learning for Recurrent Video Object Segmentation](#) – Maria Gonzalez-i-Calabuig, Carles Ventura, Xavier Giro-i-Nieto | [VÍDEO](#) | [POSTER](#)

P21 - [Self-supervised domain adaptation for computer vision tasks](#) - Jiaolong Xu; Liang Xiao; Antonio M López

P22 - [MineGAN: effective knowledge transfer from GANs to target domains with few images](#) - Yaxing Wang, Abel Gonzalez-Garcia, David Berga, Luis Herranz, Fahad Shahbaz Khan, Joost van de Weijer | [VÍDEO](#)

P23 – [CoGANs for unsupervised visual speech adaptation to new speakers](#) – Adriana Fernandez-Lopez, Ali Karaali, Naomi Harte, Federico Sukno | [VÍDEO](#)

P24 – [Active Learning for Deep Detection Neural Networks](#) - Hamed H Aghdam; Abel Gonzalez-Garcia; Joost van de Weijer; Antonio M López

Zero-shot and continual learning

P25 – [Online Fast Adaptation and Knowledge Accumulation \(OSAKA\): a New Approach to Continual Learning](#) – Massimo Caccia; Pau Rodríguez; Oleksiy Ostapenko; Fabrice Normandin; Min Lin; Lucas Caccia; Issam Laradji; Irina Rish; Alexandre Lacoste; David Vazquez; Laurent Charlin | [VIDEO](#)

P26 – [Generalized Zero-shot Learning with Multi-source Semantic Embeddings for Scene Recognition](#) - Xinhang Song, Haitao Zeng, Sixian Zhang, Luis Herranz, Shuqiang Jiang

P27 – [Bookworm continual learning: beyond zero-shot learning and continual learning](#) - Kai Wang, Luis Herranz, Anjan Dutta, Joost van de Weijer

P28 – [Semantic Drift Compensation for Class-Incremental Learning](#) - Lu Yu; Bartłomiej Twardowski; Xialei Liu; Luis Herranz, Kai Wang, Yongmei Cheng, Shangling Jui, Joost van de Weijer | [VIDEO](#)

Recognition, Classification and Segmentation

P29 – [Embedding Propagation: Smoother Manifold for Few-Shot Classification](#) - Pau Rodríguez; Issam Laradji; Alexandre Drouin; Alexandre Lacoste | [VIDEO](#)

P30 – [Fine-grained Image Classification and Retrieval by Combining Visual and Locally Pooled Textual Features](#) – Andres Mafla; Sounak Dey; Ali Furkan Biten; Lluís Gomez; Dimosthenis Karatzas | [POSTER](#)

P31 – [Orderless Recurrent Models for Multi-label Classification](#) – Vacit Oguz Yazici; Abel Gonzalez-Garcia; Arnau Ramisa; Bartłomiej Twardowski; Joost van de Weijer | [PRESENTATION](#)

P32 – [Recognizing new classes with synthetic data in the loop: application to traffic sign recognition](#) - Gabriel Villalonga; Joost Van de Weijer; Antonio M López

P33 – [Learning Effective RGB-D Representations for Scene Recognition](#) – Xinhang Song, Shuqiang Jiang, Luis Herranz, Chengpeng Chen | [BLOG](#)

P34 – [Mask-guided sample selection for Semi-Supervised Instance Segmentation](#) - Miriam Bellver; Amaia Salvador; Jordi Torres; Xavier Giro-i-Nieto

P35 – [Fruit detection and 3D location using instance segmentation neural networks and structure-from-motion photogrammetry](#) – Jordi Gené-Mola; Ricardo Sanz-Cortiella; Joan R. Rosell-Polo; Josep-Ramon Morros; Javier Ruiz-Hidalgo; Verónica Vilaplana; Eduard Gregorio | [DEMO](#)

P36 – [Computing the Testing Error without a Testing Set](#) - Ciprian Corneanu; Meysam Madadi; Aleix Martinez; Sergio Escalera

Image translation

P37 - [Semi-supervised Learning for Few-shot Image-to-Image Translation](#) - Yaxing Wang; Salman Khan; Abel Gonzalez-Garcia; Joost van de Weijer; Fahad Shahbaz Khan | [VIDEO](#)

P38 - [Retrieval Guided Unsupervised Multi-Domain Image to Image Translation](#) - Raul Gomez, Yahui Liu, Marco De Nadai, Nicu Sebe, Bruno Lepri, Dimosthenis Karatzas | [VIDEO](#)

P39 – [Mix and Match Networks: Cross-Modal Alignment for Zero-Pair Image-to-Image Translation](#) - Yaxing Wang, Luis Herranz, Joost van de Weijer

Structural Pattern Recognition

P40 – [Hierarchical stochastic graphlet embedding for graph-based pattern recognition](#) – Anjan Dutta; Pau Riba; Josep Lladós; Alicia Fornés

P41 - [Knowledge graph-based methods for record linkage](#) - Bhaskar Gautam, Oriol Ramos Terrades, Joana Maria Pujadas-Mora, Miquel Valls

Document Analysis

P42 - [Intrinsic Decomposition of Document Images In-the-Wild](#) – Sagnik Das, Hassan Sial, Ke Ma, Ramón Baldrich, Maria Vanrell and Dimitris Samaras

P43 – [A Neural Model for Text Localization, Transcription and Named Entity Recognition in Full Pages](#) - Manuel Carbonell, Alicia Fornés, Mauricio Villegas, Josep Lladós

P44 – [GANwriting: Content-Conditioned Generation of Styled Handwritten Word Images](#) - Lei Kang; Pau Riba; Yaxing Wang; Marçal Rusiñol; Alicia Fornés; Mauricio Villegas

P45 - [Location Sensitive Image Retrieval and Tagging](#) – Raul Gomez, Jaume Gibert, Lluís Gomez, Dimosthenis Karatzas | [VIDEO](#) | [POSTER](#)

Autonomous Driving

P46 - [Exploring the Limitations of Behavior Cloning for Autonomous Driving](#) - Felipe Codevilla; Eder Santana; Antonio M. López; Adrien Gaidon

P47 – [Training a Binary Weight Object Detector by Knowledge Transfer for Autonomous Driving](#) - Jiaolong Xu; Peng Wang; Heng Yang; Antonio M. López

P48 - [Slanted Stixels: A way to represent steep streets](#) - Daniel Hernandez-Juarez; Lukas Schneider; Pau Cebrian; Antonio Espinosa; David Vazquez; Antonio M. López; Uwe Franke; Marc Pollefeys; Juan C. Moure

P49 – [Multimodal end-to-end autonomous driving](#) – Yi Xiao; Felipe Codevilla; Akhil Gurram; Onay Urfalioglu; Antonio M López

P50 – [Intention Recognition of Pedestrians and Cyclists by 2D Pose Estimation](#) - Zhijie Fang; Antonio M. López

Understanding Soccer Images

P51 – [Always Look on the Bright Side of the Field: Modelling Pass Feasibility in Soccer by Finding Player Body-Orientation](#) – Adrià Arbués-Sangüesa, Adrián Martín, Javier Fernández, Coloma Ballester, Gloria Haro | [VIDEO](#)

P52 – [Using Player's Body-Orientation to Model Pass Feasibility in Soccer](#) – Adrià Arbués-Sangüesa, Adrián Martín, Javier Fernández, Coloma Ballester, Gloria Haro | [VIDEO](#)

P53 - [Self-Supervised Small Soccer Player Detection and Tracking](#) – Samuel Hurault, Coloma Ballester, Gloria Haro