



Eleventh CVC Workshop on Computer Vision Trends and Challenges
Computer Vision Centre, 22nd July 2016

Program

9:00h – Morning Coffee & Poster hanging

9:30h – Welcome

9.35h - Spotlight Session 1: Scene and Human Perception.

(Chair: Joost Van de Weijer & Sergio Escalera)

S1P01. Color Axes of individual neurons in trained CNNs, **Ivet Rafegas**

S1P02. Biologically-inspired solutions to computer vision applications, **Arash Akbarinia**

S1P03. Combining color cues with fully connected CRFs for Intrinsic Image
Decomposition, **Ricard Balagué**

S1P04. Exploring visual cues related to shadow detection in images, **Hassan Ahmed Sial**

S1P05. Multimodal for Translation and Image Captioning, **Yaxing Wang**

Discussion (5 minutes)

S1P06. Discriminative Color Features for Image Understanding, **Lu Yu**

S1P07. Visual Tracking via Correlation Filter, **Lichao Zhang**

S1P08. Iterative Human Patch Stacks with Deep CNN, **Dani Sánchez**

S1P09. Hand pose recovery in depth images, **Meysam Madadi**

S1P10. Sympathy for the Details: Dense Trajectories and Hybrid Classification
Architectures for Action Recognition, **Cesar Roberto de Souza**

Discussion (5 minutes)

10:10h – Industrial Vision, Technological Transfer Talk 1 (10 mins): Toni Hernández i Marcel Alcoverro (Exipple.com).

Questions (5 minutes)

10.25h Spotlight Session 2: Multimedia and Sequence Analysis

(Chair: Anjan Dutta & Jordi González)

S1P11. Document counterfeit detection through background texture printing analysis,
Albert Berenguel

S1P12. Word Spotting in Historical Documents, **Sounak Dey**

S1P13. Visual Script and Language Identification, **Anguelos Nicolaou**

S1P14. Real-time Image Semantic Segmentation using Bag of Visual Words, **David Aldavert**

S1P15. Structured learning methods applied on graphs, **Hana Jarraya**

Discussion (5 minutes)

S1P16. Handwritten Word Image Categorization with Convolutional Neural Networks and Spatial Pyramid Pooling, **Juan Ignacio Toledo**

S1P17. Text box proposals: A novel approach for word spotting, **Suman Kumar Ghosh**

S1P18. Deep Pain: Exploiting Long Short-Term Memory Networks for Facial Expression Classification, **Pau Rodríguez**

S1P19. Cultural Event Recognition: dataset and results, **Junior John Fabian Arteaga**

Discussion (4 minutes)

11:00h – 1st Poster Session and Coffee Break (45 minutes)

11.45h Spotlight Session 3: Transport Systems, Automatic Driving, Multispectral and 3D vision.

(Chair: Aura Hernández & Daniel Ponsa)

S2P01. Road Detection and Segmentation with Random Forests of local experts with Hypercolumns, **Prassanna Ganesh Ravishankar**

S2P02. A Place Recognition method in real time for different seasons in the Virtual World, **Gabriel Villalonga Pineda**

S2P03. A Neural Network that Drives your Car, **Felipe Codevilla**

S2P04. Vision-based Analysis of Pedestrian Intentions for Autonomous Driving, **Zhijie Fang**

Discussion (4 minutes)

S2P05. Stereo Matching using SGM on the GPU, **Daniel Hernández Juárez**

S2P06. Computer Vision Techniques in Very High Resolution Remote Sensing, **Edgar Riba**

S2P07. Multispectral imaging, **Xavier Soria Poma**

S2P08. Cross-spectral similarity, **Cristhian Aguilera**

S2P09. Dense Variational Reconstruction of Non-Rigid Structure from Motion using Photometric Constraints, **Gemma Rotger Moll**

Discussion (5 minutes)

12.20h Industrial Vision, Technological Transfer Talk 2 (10 mins): Germán Ros (Synthia)

Questions (5 minutes)

12.35h Spotlight Session 4: Health, Well-Being and Biological Vision.

(Chair: Fernando Vilariño & Alejandro Párraga)

S2P10. Automatic segmentation and tracking of interventional tools in coronary angiographies, **Simeon Petkov**

S2P11. Stable Airway Center Tracking for Bronchoscopic Navigation, **Antonio Esteban**

S2P12. Towards Social Interaction Detection in Egocentric Photo-streams, **Maedeh Aghaei**

S2P13. Egocentric Storytelling based on Deep Learning, **Marc Bolaños**

Questions (4 minutes)

S2P14. Egocentric Hand Detection Towards Action Recognition on Photo-streams, **Alejandro Cartas Ayala**

S2P15. Predicting attention through a model of the lateral interactions of firing-rate neurons in the striate cortex, **David Berga Garreta**

S2P16. A neurodynamical architecture of V1 and V2 visual cortex areas: Implications on depth perception, **Lidia Maria Rodrigues**

S2P17. Dynamic colour induction can be reproduced by a neurodynamical model of lateral interactions in V1, **Xim Cerdà-Company**

Questions (4 minutes)

13.10h Poster session 2 (45 minutes) and Voting for “BEST PRESENTATION AWARD” and “BEST POSTER AWARD”.

13.55 - End of the event (Josep Lladós)

14.15h Summer Party & Award ceremony