Computer Vision in Vehicle Technology: From Earth to Mars (CVVT2011)

In conjunction with ICCV 2011, Barcelona, Spain

DETAILED SCHEDULING

09:00 Welcome

09:10 Invited talk by Tomas Pajdla (The Czech Technical University in Prague)
"PRoVisG MARS 3D Challenge"

09:40 Orals :

"SPARTAN System: Towards a Low-Cost and High-Performance Vision Architecture for Space Exploratory Rovers"
Ioannis Kostavelis (Democritus University of Thrace),
Evangelos Boukas (Democritus University of Thrace),
Lazaros Nalpantidis (Democritus University of Thrace),
Antonios Gasteratos (Democritus University of Thrace),
Marcos Aviles Rodrigalvarez (GMV Innovating Solutions)

10:00 Coffee Break

10:30 Orals

"Direct Iterative Closest Point for Real-time Visual Odometry"
Tommi Tykkälä (CNRS/I3S)
Andrew I. Comport (CNRS/I3S)
Cédric Audras (CNRS/I3S)

"A Framework for Global Vehicle Localization Using Stereo Images and Satellite and Road Maps"
Turgay Senlet (Rutgers, The State University of New Jersey)
Ahmed Elgammal (Rutgers, The State University of New Jersey)

"Stereo estimation of depth along virtual cut planes"
Michel Antunes (University of Coimbra)
João Pedro Barreto (University of Coimbra)

"Showing Vehicles at Blind Corners from Mixed-Dimensional Multi-View Geometry"
Keigo Noba (Nagoya Institute of Technology)
Fumihiko Sakaue (Nagoya Institute of Technology)
Jun Sato (Nagoya Institute of Technology)

13:00 Lunch

14:30 Orals

"Stixels estimation without depth map computation",
Rodrigo Benenson (Katholieke Universiteit Leuven)
Radu Timofte (Katholieke Universiteit Leuven)

Luc Van Gool (Katholieke Universiteit Leuven)

"A Real-Time Multi-Cue Framework for Determining Optical Flow Confidence"
Stefan K. Gehrig (Daimler AG)
Timo Scharwächter (Daimler AG)

"A Confidence Measure for Assessing Optical Flow Accuracy in the Absence of Ground Truth"
Patricia Márquez Valle (Computer Vision Center)
Debora Gil (Computer Vision Center)
Aura Hernàndez (Computer Vision Center)

"Unsupervised Sub-categorization for Object Detection: Finding Cars from a Driving Vehicle"
Rob G.J. Winjnhoven (ViNotion)
Peter H.H. De With (Eindhoven University of Technology)

"Learning Multi-Lane Trajectories using Vehicle-Based Vision"
Sayanan Sivaraman (University of California)
Brendan Morris (University of California)
Mohan Trivedi (University of California)

16:15 Posters spotlighs

16:30 Coffee Break

17:00 Posters

"Automatic real-time FACS-coder to anonymise drivers in eye tracker videos"
Selpi (Chalmers University of Technology)
Torsten Wilhelm (Smart Eye AB)
Marcus Jansson (Chalmers University of Technology)
Li Hagström (Chalmers University of Technology)
Niklas Brandin (Räven AB)
Magnus Andersson (Räven AB)
John-Fredrik Grönvall (Volvo Car Corporation)

"Illumination-Free Gaze Estimation Method for First-Person Vision Wearable Device"
Akihiro Tsukada (Carnegie Mellon University),
Motoki Shino (Tokyo university),
Michael Devyver (Carnegie Mellon University)
Takeo Kanade (Carnegie Mellon University)

"Monocular Camera Trajectory Optimization using LiDAR Data"
Christoph Bodensteiner (Fraunhofer IOSB)
Wolfgang Hübner (Fraunhofer IOSB)
Kai Jüngling (Fraunhofer IOSB)
Peter Solbrig (Fraunhofer IOSB)
Michael Arens (Fraunhofer IOSB)

"Contrast restoration of road images taken in foggy weather"
Houssam Halmaoui (UniverSud, LIVIC, Ifsttar),
Aurélien Cord (UniverSud, LIVIC, Ifsttar)
Nicolas Hautière (Université Paris-Est, LEPSIS, Ifsttar)

"Constrained UAV Mission Planning: A Comparison of Approaches"
Stephen Leary (Advanced Technology Centre, BAE Systems)
Markus Deittert (Advanced Technology Centre, BAE Systems)
John Bookless (Advanced Technology Centre, BAE Systems)

18:15 Best paper announcement and Closing

---

www.cvc.uab.es/adas/cvvt2011