9th IEEE Workshop on Omnidirectional Vision, Camera Networks and Non-classical Cameras (OMNIVIS2009)

Organizers: Hajime Nagahara, Ryusuke Sagawa, Pascal Vasseur, Shree K. Nayar
Date: Sunday, October 4, 2009, 9:30-18:00

S1: Omnidirectional Cameras: Applications
Projection through Quadric Mirrors Made Faster
   Nuno Gonçalves, Ana C. Nogueira
Direct Approach to the Self-calibration of Omnidirectional Cameras
   A. Salazar-Garibay, E. Malis
Featuring Optical Rails: View-based Robot Guidance Using Orientation Features on the Sphere
   David Dederscheck, Holger Friedrich, Christine Lenhart, Martin Zahn, Rudolf Mester

S2: Camera Networks
Self-calibration of Asynchronized Camera Networks
   Michael Nischt, Rahul Swaminathan
Face Tracking by Using Omnidirectional Sensor Network
   Yuzuko Utsumi, Yosio Iwai, Hiroshi Ishiguro

S3: Omnidirectional Cameras: Structure-from-Motion and Image processing
Building Consistent Local Submaps with Omnidirectional SLAM
   Cyril Joly, Patrick Rives
From Google Street View to 3D City Models
   Akihiko Torii, Michal Havlena, Tomáš Pajdla
Experiments in Place Recognition Using Gist Panoramas
   A. C. Murillo, J. Kosecka

S4: Non-Classical Sensors
Krill-eye : Superposition Compound Eye for Wide-angle Imaging via GRIN Lenses
   Shinsaku Hiura, Ankit Mohan, Ramesh Raskar
Image Reconstruction in the Gigavision Camera
   Feng Yang, Luciano Sbaiz, Edoardo Charbon, Sabine Süsstrunk, Martin Vetterli
Generalized Stereo for Hybrid Omnidirectional and Perspective Imaging
   Huei-Yung Lin, Min-Liang Wang
A Novel Non-Central Catadioptric Auto-calibration Approach
   Abd E. Rahman Shabayek, David Fofi, Olivier Morel