



Sunday, October 4th, 2009, in Kyoto, Japan

The Ninth Workshop on Omnidirectional Vision, Camera Networks and Non-classical Cameras

Technical Program

09:30 Opening

Session I: Omnidirectional cameras: applications (09:35-11:05)

09:35 **Projection through quadric mirrors made faster**
Nuno Gonçalves, Ana Catarina Nogueira

10:05 **Direct Approach to the Self-Calibration of Omnidirectional Cameras**
Adan Salazar-Garibay, Ezio Malis

10:35 **'Featuring' Optical Rails: View-Based Robot Guidance Using Orientation Features on the Sphere**
David Dederscheck, Holger Friedrich, Christine Lenhart, Martin Zahn, Rudolf Mester

11:05-11:30 Coffee break

Session II: Camera networks (11:30-12:30)

11:30 **Self-Calibration of Asynchronized Camera Networks**
Rahul Swaminathan, Michael Nischt

12:00 **Face Tracking and Recognition by using Omnidirectional Sensor Network**
Yuzuko Utsumi, Yoshio Iwai

12:30-14:00 Lunch break

Session III: Omnidirectional cameras: Structure from motion and Image processing (14:00-15:30)

14:00 **Building consistent local submaps with Omnidirectional SLAM**
Cyril Joly, Patrick Rives

14:30 **From Google Street View to 3D City Models**
Akihiko Torii, Michal Havlena, Tomas Pajdla

15:00 **Experiments in Place Recognition using Gist Panoramas**
Ana Cristina Murillo Arnal, Jana Kosecka

15:30-15:45 Coffee break

Session IV: Non-classical sensors (15:45-17:45)

15:45 **Krill-eye : Superposition Compound Eye for Wide-Angle Imaging via GRIN Lenses**
Shinsaku Hiura, Ankit Mohan, Ramesh Raskar

16:15 **Image Reconstruction in Gigavision Camera**
Feng Yang, Luciano Sbaiz, Edoardo Charbon, Sabine Süsstrunk, Martin Vetterli

16:45 **Generalized Stereo for Hybrid Omnidirectional and Perspective Imaging**
Huei-Yung Lin, Min-Liang Wang

17:15 **A novel Non-Central Catadioptric Auto-Calibration Approach**
Abd El Rahman Shabayek, David Fofí, Olivier Morel

17:45 Closing and discussion of next OMNIVIS