

WT2.13: Tampere University of Technology

Report

Activities performed during the visit at the Wrocław University of Technology

Task leader name: Janusz Sobacki

Visiting person name: Michał Joachimiak

Period: 1.03.2015 - 30.04.2015

1 Personal Information

Michał Joachimiak received the Master of Science degree in Computer Science from the Faculty of Technical Physics, Computer Science and Applied Mathematics, Lodz University of Technology, Lodz Poland in 2006. Between 2007 and 2009 he was a Computer Vision Researcher at the Department of Measurement and Information Technology, Tampere University of Technology. In 2009 he has joined the Department of Signal Processing, Tampere University of Technology. Between 2009 and 2013 he was a researcher at the Nokia Research Center, Tampere, Finland, where he conducted research on topics related to 3D video acquisition, processing and compression including work on the 3DV-ATM reference encoder. He is in the final stage of his Ph.D. degree studies. He is a recipient of the Nokia Foundation scholarship and the HPY Foundation scholarship. His current research interests focus on 3D video processing, saliency detection and information retrieval from visual data.

2 Seminars

1. The presentation entitled „3D video processing and compression” presented on 22.04.2015 covered recent advancements on the image processing chain for 3D video delivery.
2. The invited talk entitled “Industry and academia cooperation in Finland” was presented during the Twinning Days at the Wrocław Technology Park on 21.04.2015. The presentation described the cooperation means between industry and academia in Finland exemplified by Tampere University of Technology case.

3 Scientific activities



During the visit the system recreating the motion parallax effect on a 2D display was developed. Further extensions are planned and will be conducted by a graduate student within work on the Master of Science thesis. The current status of the work was published as a conference paper:

M. Joachimiak, M. Wasielica, P. Skrzypczynski, J. Sobecki, M. Gabbouj, „View Synthesis with Kinect-Based Tracking for Motion Parallax Depth Cue on a 2D Display,” CORES 2015, Wrocław, Poland, 2015.

