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Levente TAMÁS

Research interests

My research interests are related to the robotics domain including map registration, localization, tracking, object detection and optimistic path planning.

Education

2006–2009 **PhD**, *Technical University of Cluj-Napoca*.
supervisor Prof. Gheorghe LAZEA
description Sensor Fusion Based Mobile Robot Position Estimation

2000–2006 **BSc&MSc**, *Technical University of Cluj-Napoca, final thesis at Ghent University*.
honor Best academic results scholarship

Work experience

2013–2014 **Postdoctoral Fellow**, *BFH*, Bern.
3D Semantic Reconaissance

2010–2013 **Postdoctoral Fellow**, *Technical University of Cluj-Napoca*.
ArhiFax – Creating 3D maps in urban environments

2008–present **Lecturer**, *Technical University of Cluj-Napoca*.
Giving robot control and pneumatic equipments courses for Control Engineering graduates

2006–2007 **Software Engineer**, *Evoline (Siemens partner)*, Cluj-Napoca.
Software design and development for Siemens TS department; SHTP team member

2005 **R&D Assistant**, *Solutia NV Europe*, Ghent.
Design and development of a new measurement system for thickness measurement

Selected publications

[1] Zoltan Kato and Levente Tamas. Relative pose estimation and fusion of 2d spectral and 3d lidar images. In *Computational Color Imaging Workshop (CCIW) - Invited talk*, volume 0073, pages 1–10. Springer, LNCS, 2015.

[2] Levente Tamas and Lucian Goron. 3d semantic interpretation for robot perception inside office environments. *Engineering Applications of Artificial Intelligence*, 32:76–87, 2014.

[3] Levente Tamas and Zoltan Kato. Targetless calibration of a lidar-perspective camera pair. In *International Conference on Computer Vision (ICCV), BigData3D Workshop*, 2013.

[4] Levente Tamas and Andras Majdik. Heterogeneous feature based correspondence estimation. International Conference on Multisensor Fusion and Information Integration (MFI), 2012.

[5] Levente Tamas and Cosmin Marcu. Detection and tracking experiment design in various environments. International Conference on Advanced Robotics (ICAR), 2011.

Invited talks

2015 *3D pointcloud processing*: COSCH Training School, Szeged, Hungary

2015 *Relative pose estimation and fusion of 2D spectral and 3D lidar images*: Computational Color Imaging Workshop, Saint Etienne, France

2015 *Are we there yet? Towards autonomous driving challenges*: International Summer Course on Multivariable Control: Automotive applications, Ghent, Belgium

2013 *3D perception made easy*: Summer School on Image Processing (SSIP), Veszprem, Hungary

Academic activities and services

2010-2014 IEEE AQTR Conference organizer/reviewer.

2012 ROS fall school on cognitive systems, Munchen, participant.

2011 Patenting OSIM patent no. A10006/16.02.2011

2010 3^{rd} Intel ISIF student advisor award, 2010, USA.

2009 Filtering and Data Analyses Summer School, Milan, participant.

2008 SLAM Summer School, Sydney, participant.

2007 National PhD research project director.

2006 IEEE AQTR Conference organizer team member.

2005 Erasmus exchange student at Ghent University, Belgium.

Skills

Languages Fluent spoken/written English, Hungarian and Romanian; fair German.

Programming C, C++, Matlab, Linux shell scripting, LaTeX 2_ε, Java, DeltaV.

Interests

Traveling, dancing, swimming.

References

Available upon request