Intelligent and Interactive Systems

Research at IIS is situated at the intersection of computer vision, machine learning and robotics. Much of our work is motivated by the perceptual needs of autonomous robots, and focuses on visual inference as it serves activity such as grasping. Other areas of interest include the psychology and biology of perception, and video analysis for applications such as sports or human-computer interaction.

Working With Us

Check our thesis topics for Bachelor and Master students.

News

- Antonio Rodriguez-Sanchez is organizing, jointly with George Azzopardi (Univ. Malta) a BICT workshop on Computer Models of the Visual Cortex, to be held in New York in December.
- Justus Piater is an **invited speaker** at the workshop on Learning Object Affordances: A fundamental step to allow prediction, planning and tool use in autonomous robots, at IROS in October 2015.
- Emre Ugur is co-organizing, with Lorenzo Jamone, Angelo Cangelosi, Tamim Asfour, and Jose Santos-Victor, a workshop on Learning Object Affordances: A fundamental step to allow prediction, planning and tool use in autonomous robots, at IROS in October 2015.
- Justus Piater is an **invited speaker** at the workshop on Robot Learning, Bottom-up and top-down development of robot skills at ICAR in July 2015.
- Emre Ugur is organizing, with Lorenzo Jamone, Yukie Nagai, and Erhan Oztop, a workshop on Robot Learning, Bottom-up and top-down development of robot skills at ICAR in July 2015.
- Justus Piater is organizing, with Tamim Asfour (KIT), the workshop on Learning Reusable Concepts in Robotics at RSS in July 2015. Check our exciting lineup of invited speakers!
- Justus Piater is an **invited speaker** at the workshop on Robotic Hands, Grasping, and Manipulation May 30, 2015, at ICRA 2015 in Seattle.
- Our following paper won the **Best Paper Award** at ACML 2014:

  Hanchen Xiong, Sandor Szedmak Justus Piater, Towards Maximum Likelihood: Learning Undirected Graphical Models using Persistent Sequential Monte Carlo. [Abstract] [BibTeX]

- Justus Piater is an **invited speaker** at the workshop on Human versus Robot Grasping and Manipulation—How Can We Close the Gap? at RSS July 12, 2014, at UC Berkeley.
- Justus Piater is co-organizing the IROS **Workshop on Robots in Clutter: Perception and Interaction in Clutter** in Chicago, September 18, 2014.

Older News

Press

- Eine Kamera als Sehhilfe (iPoint 06.02.2015, in German)
- #tiroltvvideo { display: none; } #tiroltvvideo:target { display: block; }
  Robotik an der Uni Innsbruck - TirolTV vom 1 Dezember 2014
- #raivideo { display: none; } #raivideo:target { display: block; }
  RAI Südtirol - Tagesschau vom 12 Juli 2014
- Roboter, die von Menschen lernen - (iPoint 03.01.2014, in German)
- Learning from the Brain - UIBK news 21/11/2012 reports on 2DSIL, a biologically-inspired model of shape representation.
- Stille Welt - Gehörlos in Tirol - the Tyrolean street newspaper reports on the SignSpeak project. (20er, pp. 6-7, April 2012, in German)
- Übersetzungslücken schließen - the UIBK supplement to an Austrian newspaper reports on our SignSpeak project (wissenswert 18 pp. 16-17, February 2012, in German)
- Schlaue Roboter im Haushalt (iPoint 13.04.2011, in German)
- Roboter lernen lernen (zukunft forschung 2/2010, in German)

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