

# 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

- Emre Ugur is co-organizing, with Tadahiro Taniguchi and George Konidaris, **Shonan Meeting** on Cognitive Development and Symbol Emergence in Humans and Robots in October 2016.
- Emre Ugur is an **invited speaker** at the [2nd International Workshop on Cognitive Neuroscience Robotics](#) in February 2016, in Osaka, Japan.
- Emre Ugur is guest editor of the Special Issue on [Computational Models of Affordances for Cognitive Robots](#) in the [IEEE Transactions on Cognitive and Developmental Systems](#).
- Justus Piater is an **invited speaker** at the [1st International Workshop on Recovering 6D Object Pose](#), at [ICCV](#) in December 2015.
- 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 co-organizing **Dagstuhl Seminar 15411** on [Multimodal Manipulation Under Uncertainty](#) in October 2015.
- 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 September 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.
- Emre Ugur is an **invited speaker** at the workshop on [Learning Reusable Concepts in Robotics](#) at [RSS](#) 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!
- Our following paper won the **Best Robotic Vision Paper Award** at [CRV 2015](#): Safoura Rezapour Lakani, Mirela Popa, Antonio Rodríguez-Sánchez, Justus Piater, CPS: 3D Compositional Part Segmentation through Grasping. [12th Conference on Computer and Robot Vision, 2015](#). [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)
- Justus Piater is an **invited speaker** at the workshop on [Robotic Hands, Grasping, and Manipulation](#) May 30, 2015, at [ICRA 2015](#) in Seattle.

## Older News

## Press

- [Fast wie Science Fiction: Ein Roboter, der lernt wie ein Kind](#) - Tiroler Tageszeitung (February 3, 2016, in German) features [Emre Ugur's work on stacked learning](#).
- [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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