

News

See our [front page](#) for the most recent news.

- 2019-10-10 IIS guest **Georg Martius**, Max Planck Institute for Intelligent Systems, Tübingen, gives an invited colloquium *Self-Organization of Behavior in Autonomous Robot Development* at [IFI Lunchtime Seminar](#).
- 2019-07-17 Matteo Saveriano contributes a talk *From Intuitive Skill Transfer to Large-Scale Robotic Knowledge Bases* at [DiSCourse - The Digital Science Seminar Series](#), Department of Computer Science, University of Innsbruck.
- 2019-07-15 David Peer contributes a talk *Vector Routing in Capsule Networks* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-15 Sayantan Auddy contributes a talk *Progress, Compress and Expand - A framework for lifelong learning of robotics tasks* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-15 Justus Piater contributes a talk *Towards Open-Ended Robot Learning* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-15 Matteo Saveriano contributes a talk *Learning Structured Robotic Tasks via Human Imitation* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-12 Simon Haller and Nicolas Stolz appear in the media: *Sport und Roboter gehen Hand in Hand* (in Liechtensteiner Vaterland).
- 2019-07-04 Simon Haller teaches a tutorial *Introduction to Prototyping autonomous Robots using the Robot Operating System (ROS)* at Institut für Informatik, Universität Innsbruck.
- 2019-06-27 Justus Piater gives an invited talk *Selbst lernende Roboter der Zukunft* at [GMAR Robotics Talks Reloaded](#), Vienna.
- 2019-06-27 Simon Haller teaches a tutorial *Künstliche Intelligenz und Robotik - Ein Überblick und Reality Check* at Campustag NMS Götzis, Institut für Informatik, Universität Innsbruck.
- 2019-06-13 Simon Haller gives an invited talk *Coding Literacy - Konzepte und Anwendungen in der Schule und im Alltag* at [Künstliche Intelligenz und Robotik als theologisch-ethische Herausforderung](#), Universität Innsbruck.
- 2019-06-13 Justus Piater gives an invited talk *Künstliche Intelligenz in einer menschlichen Gesellschaft* at [Künstliche Intelligenz und Robotik als theologisch-ethische Herausforderung](#), Universität Innsbruck.
- 2019-05-24 Philipp Zech and Erwan Renaudo co-organize the [2nd International Workshop on Computational Models of Affordance in Robotics](#).
- 2019-05-09 Erwan Renaudo contributes a talk *Action representations in robotics: A taxonomy and systematic classification* at [IFI Lunchtime Seminar](#), Universität Innsbruck.
- 2019-05-02 Justus Piater gives an invited talk *Digitalization: Promises and Challenges* at [Möglichkeiten und Herausforderungen der Digitalisierung](#), Universität Innsbruck.
- 2019-04-26 – 2019-04-27 Birgit Juen, Cornelia Vidovic, Manuela Resch, Justus Piater, and Simon Haller co-organize the [RoboCup Junior Austrian Open 2019](#).
- 2019-04-26 Justus Piater appears in the media: TV interview on educational and societal aspects of robot technology by ORF 2 Tirol Heute (in German).

- 2019-03-28 Simon Haller teaches a tutorial *Coding und Robotik - Makerspaces mit Einplatinencomputern* at [eFuture-Day](#), Grillhof Vill.
- 2019-03-26 Justus Piater contributes a talk *Selbst lernende Roboter der Zukunft* at [GMAR Robotics Talk: Robotik in Fertigung, Montage und Forschung](#), INNIO Jenbacher.
- 2019-03-26 Justus Piater co-organizes the [GMAR Robotics Talk: Robotik in Fertigung, Montage und Forschung](#).
- 2019-02-20 Justus Piater gives an invited talk *Künstliche Intelligenz in der Robotik* at [Smart City Finale 2019](#), HTL Dornbirn.
- 2019-01-10 Justus Piater gives an invited talk *High-Level, Skill-Based Robot Programming Using Autonomous Playing and Autonomous Testing* at [Taste Digitalization - CAMPUS:digi:TOUR \(4\)](#), ICT, Universität Innsbruck.
- 2018-10-05 Justus Piater gives an invited talk *Perception of Abstract Concepts* at [Unconventional Sensing and Processing for Robotic Visual Perception](#), Madrid, Spain.
- 2018-09-21 Justus Piater gives an invited talk *Concept Learning For Robot Intelligence* at [Conference on Quantum Machine Learning Plus](#), Innsbruck, Austria.
- 2018-07-17 Simon Haller and Nicolas Stolz appear in the media: [Roboter zu Besuch in Liechtenstein](#).
- 2018-07-03 Simon Haller teaches a tutorial *Wie kann ein Roboter lernen, die Welt zu verstehen?* at Campustag BORG Schwaz, Universität Innsbruck.
- 2018-06-30 Philipp Zech, Barry Ridge, and Emre Ugur co-organize the [1st International Workshop on Computational Models of Affordance in Robotics](#).
- 2018-06-30 Justus Piater gives an invited talk *Objects, Parts, Functions, Affordances, Actions, and Tasks* at [1st International Workshop on Computational Models of Affordance in Robotics](#), Pittsburgh, PA, USA.
- 2018-06-12 Justus Piater, Simon Haller, and Olaf Köhler appear in the media: [Music Globe und Cbeat](#).
- 2018-06-12 Simon Haller teaches a tutorial *Robotics im Klassenzimmer* at [InDay Teachers 2018](#), Universität Innsbruck.
- 2018-04-24 Justus Piater gives an invited talk *Intelligente Roboter - Freund, Feind oder Hirngespinnst?* at [Popular science talk within the WissensDurst series](#), Innsbruck, Austria.
- 2018-04-11 Justus Piater is a panelist at a public discussion on *AI - Wird der Mensch ersetzbar?*, organized by the Faculty of Law and the European Law Students' Association Austria in Innsbruck, Austria.
- 2018-04-10 Philipp Zech, Justus Piater, and Cornelia Vidovic appear in the media: [Roboter bauen? Ist ja kinderleicht](#).
- 2018-04-05 Justus Piater contributes a talk *High-Level, Skill-Based Robot Programming Using Autonomous Playing and Autonomous Testing* at RSS Area Chair Symposium, Cornell University, Ithaca, NY, USA.
- 2018-03-23 Simon Haller teaches a tutorial *Was sind Roboter? Wie verstehen Roboter? Wie baut man einen einfachen Roboter?* at Campustag BG/BRG Sillgasse, Universität Innsbruck.
- 2018-02-09 Simon Haller and Nicolas Stolz teach a tutorial *Digitale Selbstverteidigung: Security und Privacy im Internet* at Safer Internet Tag, Jugendzentrum Tivoli.
- 2017-12-13 Simon Haller teaches a tutorial *Build your own Mini Robot* at AK Informatiklehrer, Universität Innsbruck.
- 2017-12-01 Justus Piater appears in the media: [Frage der Tradition. Interview about Open Access publishing by Zukunft Forschung](#), the science and research magazine of the University of Innsbruck.

- 2017-11-24 Justus Piater gives an invited talk *Scale Up Machine Learning, And Cognition Will Emerge. Will It?* at [EUCognition Meeting](#), Zürich, Switzerland.
- 2017-11-15 Simon Haller teaches a tutorial *Digitale Kompetenzen entwickeln mit Micro:Bits, Calliope Mini und Co* at [Programm EduMediaLab 2017](#), Universität Innsbruck.
- 2017-11-09 Simon Haller and Philipp Zech teach a tutorial *Wie kann ein Roboter lernen, die Welt zu verstehen?* at [VWA- und Diplomarbeitentag](#), Universität Innsbruck.
- 2017-10-05 Justus Piater gives an invited talk *Open-Ended Robot Learning: First Steps and Next Challenges* at [The Third International Workshop on Intrinsically Motivated Open-ended Learning \(IMOL 2017\)](#), Rome, Italy.
- 2017-09-24 Justus Piater co-organizes the [IEEE/RSJ IROS Workshop on Human in-the-loop robotic manipulation: on the influence of the human role](#).
- 2017-09-15 Justus Piater is a panelist at a public discussion on [Die Maschine denkt – die Maschine lenkt: Wie gefährlich ist Künstliche Intelligenz?](#) in Graz, Austria.
- 2017-08-28 Simon Haller and Andrea Bou-Vinals teach a tutorial *Bau eines hydraulischen Roboter Arms* at [Kinder-Sommer-Uni 2017 \(Programm\)](#), Universität Innsbruck.
- 2017-08-25 Simon Haller and Katharina Seeber teach a tutorial *Ö1 Children's University Alpbach – Science and Technology for Kids: Workshop for the construction of hydraulic robot arms* at [European Forum Alpbach 2017 / Technology Symposium](#), Forum Alpbach.
- 2017-07-27 Justus Piater contributes a talk *Algorithmen und Datenstrukturen* at Sommertechnikum MINT, Universität Innsbruck.
- 2017-07-19 Justus Piater teaches a tutorial *Learning to Grasp Using More or Less Vision* at [Summer School on Soft Manipulation](#), Lake Chiemsee, Germany.
- 2017-06-09 Simon Haller, Erwan Renaudo, and Philipp Zech present a show *1. Tiroler Pop-, Rock- und Tanz-Märchen für Erwachsene - "König Laurins Rosengarten" - Open Air* at [Tiroler Märchenfestival](#), Vögeltsberg.
- 2017-05-23 Simon Haller teaches a tutorial *A quick glance at BBC Micro:Bit and Calliope Mini* at ["inday teachers"](#), Universität Innsbruck.
- 2017-05-15 Justus Piater contributes a talk *Making Robots Learn to Perceive and Act with Understanding* at [Lorentz Workshop on Perspectives on Developmental Robotics](#), Leiden, Netherlands.
- 2017-04-21 Justus Piater gives an invited talk *Maschinelles Lernen – Eine Einführung mit Blick auf Digitale Geisteswissenschaften* at [Workshop über Digitale Methoden in den Geisteswissenschaften](#), Universität Innsbruck.
- 2017-03-23 Justus Piater gives an invited talk *Progress in Robot Learning – Is Modeling Crucial for Success?* at [Systems Engineering - Progress in Robot Modeling - Why Modeling is Crucial for Success](#), Edinburgh, Scotland.
- 2017-03-17 Simon Haller teaches a tutorial *Programming the BBC Micro:Bit* at [Slides and Code](#), AGI, Innsbruck, Angerzellgasse 15 .
- 2017-02-05 Simon Haller appears in the media: [Die liebste Himbeere der Bastler. TT Magazin Interview..](#)
- 2016-12-09 Justus Piater gives an invited talk *From Machine Learning to Agency* at [EUCognition Meeting](#), Vienna, Austria.
- 2016-11-26 Justus Piater gives an invited talk *Roboter für Menschen – Menschen für Roboter* at [Uni im Dorf 2016](#), Ausservillgraten.
- 2016-11-26 Simon Haller and Katharina Seeber teach a tutorial *Bau eines hydraulischen Roboter Arms* at [Uni im Dorf 2016](#), Ausservillgraten.
- 2016-11-08 Simon Haller teaches a tutorial *Prototyping (autonomous) Robots using Python and ROS* at [Slides and Code](#), Innsbruck, Adamgasse 22.
- 2016-11-06 Senka Krivic appears in the media: [Webportal article \(ITgirls.ba\) following interview \(in Bosnian\)](#).

- 2016-10-14 Justus Piater gives an invited talk *Bootstrapping Complex Skills by Building on Experience* at [Workshop on Machine Learning Methods for High-Level Cognitive Capabilities](#), at IROS, Daejeon, Korea.
- 2016-10-04 Justus Piater gives an invited talk *From Machine Learning to Agency* at [NII Shonan Meeting on Cognitive Development and Symbol Emergence in Humans and Robots](#), Shonan Village Center, Japan.
- 2016-09-26 Justus Piater gives an invited talk *From Machine Learning to Agency* at ["Robotics in the 21st century: Challenges and Promises"](#), Gottingen, Germany.
- 2016-09-22 Justus Piater gives an invited talk *From Machine Learning to Agency* at [Conference on Agency and \(Quantum\) Physics](#), Konstanz, Germany.
- 2016-08-12 Simon Haller and Andrea Bou-Vinals teach a tutorial *Das Innenleben eines Computers* at [Kinder-Sommer-Uni 2016 \(Programm\)](#), Universität Innsbruck.
- 2016-08-03 Simon Haller and Andrea Bou-Vinals teach a tutorial *Das Innenleben eines Computers* at [Kinder-Sommer-Uni 2016 \(Programm\)](#), University of Innsbruck.
- 2016-05-01 Justus Piater appears in the media: [Wie Robin gelernt hat, einen Turm zu bauen. Newspaper article \(Der Standard\) following interview and demonstration.](#)
- 2016-05-01 Justus Piater appears in the media: [Wie Roboter die Zukunft der Arbeit verändern..](#)
- 2016-05-01 Simon Haller appears in the media: [Lebensretter und Rampensäue, 6020 Interview..](#)
- 2016-04-21 Justus Piater, Emre Ugur, and Simon Hangl appear in the media: [TV report on child-like robot learning by ORF 2 Tirol Heute \(in German\).](#)
- 2016-04-21 Justus Piater and Emre Ugur appear in the media: [Web report on child-like robot learning by ORF \(in German\).](#)
- 2016-04-21 Justus Piater, Emre Ugur, and Simon Hangl appear in the media: [Radio report on child-like robot learning by ORF Ö1 Wissen Aktuell \(in German\).](#)
- 2016-04-16 Philipp Zech appears in the media: [Print Article \(News\).](#)
- 2016-04-05 Simon Haller appears in the media: [Die Zukunft der Roboter, TT Interview..](#)
- 2016-04-02 – 2016-04-03 Simon Haller, Sebastian Stabinger, Cornelia Vidovic, and Justus Piater co-organize the [RoboCupJunior Austrian Open 2016](#).
- 2016-03-02 Simon Haller gives an invited talk *Tips and Tricks for Rapid Prototyping using ROS* at [Robotics Seminar at Boğaziçi Üniversitesi](#), Istanbul, Turkey.
- 2016-02-29 – 2016-03-04 Justus Piater co-organizes the Winter School on Interactive Mobile Manipulation.
- 2016-02-21 Emre Ugur gives an invited talk *Closing the loop: From continuous exploration to symbolic planning* at [2nd International Workshop on Cognitive Neuroscience Robotics](#), Osaka, Japan.
- 2016-02-12 – 2016-02-17 Safoura Rezapour contributes a talk *Learning Compositional Object Representation with Functionality* at [AAAI-16 Robotics Fellowship Session](#), PHoenix, AZ, USA.
- 2016-02-04 Justus Piater appears in the media: Interview about potential for exploitation of ICT research by the Technology Transfer Center of Western Austria (WTZ West).
- 2016-02-03 Justus Piater appears in the media: [Newspaper article \(Tiroler Tageszeitung\) following interview and robot demonstrations.](#)
- 2016-01-22 Justus Piater teaches a tutorial *Grasping and Manipulation* at [GMAR Winter School on Robotics](#), Graz, Austria.
- 2016-01-21 Philipp Zech contributes a talk *Grasp Affordance Density Learning* at [GMAR Winter School on Robotics](#), Graz, Austria.
- 2016-01-21 Simon Haller contributes a talk *Integrating Perception Neuron motion capturing into ROS* at [GMAR Winter School on Robotics](#), Graz, Austria.
- 2016-01-21 Senka Krivic contributes a talk *Push Manipulation Skill* at [GMAR Winter School on Robotics](#), Graz, Austria.

- 2016 Emre Ugur edits a guest edition [Computational Models of Affordances for Cognitive Robots](#) in [IEEE Transactions on Cognitive and Developmental Systems](#).
- 2015-12-17 Justus Piater gives an invited talk *Distributions of Diverse Features For Single and Multiple-View Robot Vision* at [1st International Workshop on Recovering 6D Object Pose](#), at ICCV, Santiago, Chile.
- 2015-12-03 – 2015-12-05 Antonio Rodriguez-Sanchez and George Azzopardi co-organize the [The First International Workshop on Computational Models of the Visual Cortex: Hierarchies, Layers, Sparsity, Saliency and Attention](#).
- 2015-10-04 – 2015-10-09 Justus Piater, Jan Peters, Robert Platt, and Siddhartha Srinivasa co-organize the [Dagstuhl Seminar 15411 on Multimodal Manipulation Under Uncertainty](#).
- 2015-09-28 Justus Piater gives an invited talk *Stacked learning for bootstrapping symbols from sensorimotor experience* at [Workshop on Learning Object Affordances: A fundamental step to allow prediction, planning and tool use in autonomous robots](#), at IROS, Hamburg, Germany.
- 2015-09-28 Emre Ugur, Lorenzo Jamone, Angelo Cangelosi, Tamim Asfour, and Jose Santos-Victor co-organize the [Workshop on Learning Object Affordances: A fundamental step to allow prediction, planning and tool use in autonomous robots](#).
- 2015-08-04 Simon Hangl contributes a talk *Reactive, Task-specific Object Manipulation by Metric Reinforcement Learning* at [2nd Human Brain Project School on Future Computing](#), Obergurgl, Austria.
- 2015-07-31 Justus Piater gives an invited talk *Stacked learning of affordances* at [Workshop on Bottom-up and top-down development of robot skills](#), at ICAR, Istanbul, Turkey.
- 2015-07-31 Emre Ugur, Lorenzo Jamone, Yukie Nagai, and Erhan Oztop co-organize the [Workshop on Bottom-up and top-down development of robot skills](#).
- 2015-07-16 Emre Ugur gives an invited talk *Bootstrapping Concept Learning: From Simple to Complex Affordances to Symbolic Planning* at [Workshop on Learning Reusable Concepts in Robotics](#), at RSS, Rome, Italy.
- 2015-07-16 Justus Piater and Tamim Asfour co-organize the [Workshop on Learning Reusable Concepts in Robotics](#).
- 2015-06-03 – 2015-06-05 Safoura Rezapour contributes a talk *CPS: 3D Compositional Part Segmentation through Grasping* at [12th Conference on Computer and Robot Vision](#), Halifax, Nova Scotia.
- 2015-05-30 Justus Piater gives an invited talk *Robot vision in times of flight: RGB-D = red-green-blue is dead?* at [Workshop on Robotic Hands, Grasping, and Manipulation](#), at ICRA, Seattle, USA.
- 2015-05-04 Sebastian Stabinger appears in the media: Robotertechnik für Blinde: Interview with 20er about master project.
- 2015-02-06 Sebastian Stabinger appears in the media: [Eine Kamera als Sehhilfe: Audio interview with ipoint about master project](#).

2010-2014

- [#tiroltvvideo](#) { display: none; } [#tiroltvvideo:target](#) { display: block; } [Robotik an der Uni Innsbruck - TirolTV vom 1 Dezember 2014](#)
- 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.
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RAI Südtirol - Tagesschau vom 12 Juli 2014

- Justus Piater is co-organizing the **IROS Workshop on Robots in Clutter: Perception and Interaction in Clutter** in Chicago, September 18, 2014.
- Antonio Rodriguez-Sanchez is the editor of the special issue on Frontiers in Computational Neuroscience about **Hierarchical object representations in the visual cortex and computer vision**.
- **Roboter, die von Menschen lernen** - (iPoint 03.01.2014, in German)
- Justus Piater is lecturing on Robot Vision at the **International Autumn School on "Human-Robot-Interaction**, November 18th–22nd, 2013, TU Dresden, Germany.
- Emre Ugur is organizing the **IROS2013 Workshop on Neuroscience and Robotics: Towards a robot-enabled, neuroscience-guided healthy society** in Tokyo, 3 November 2013.
- Our following paper won a **Best Vision Paper Award**:
Damien Teney, Justus Piater, Continuous Pose Estimation in 2D Images at Instance and Category Levels. **Tenth Conference on Computer and Robot Vision**, 2013. [PDF] [Abstract] [BibTeX]
- Justus Piater is co-organizing the **R:SS Workshop on Robots in Clutter: Preparing Robots for the Real World** in Berlin, 27 June 2013.
- Justus Piater is co-organizing the **ICRA 2013 Workshop on Semantics, Identification, and Control of Robot-Human-Environment Interaction** in Karlsruhe, 10 May 2013.
- Justus Piater is an **invited speaker** at the **ICRA 2013 Workshop on Bootstrapping Structural Knowledge from Sensory-motor Experience** in Karlsruhe, 6 May 2013.
- **Nicu Sebe**, professor of computer science at the University of Trento, is giving a talk on **Human-centered Computing: Challenges and Perspectives** on **April 18, 2013, at 16:15** in HS D.
- **Francisco Valero-Cuevas**, Professor of biomedical engineering and biokinesiology and physical therapy at the University of Southern California, is giving a talk on **Computational Neuromechanics** on March 14, 2013, at 16:15 in HS E.
- **Nicolai Petkov** is visiting IIS for three days, and is giving a talk on **Brain-inspired computing vision for machine vision** on 10 January 2013, 16:15, in HS C.
- Justus Piater and **Antonio Rodríguez-Sánchez** are organizing the **2013 ÖAGM/AAPR Workshop** in Innsbruck.
- **Learning from the Brain** - UIBK news 21/11/2012 reports on 2DSIL, a biologically-inspired model of shape representation.
- IIS has published a paper in PLoS One:
Antonio Rodríguez-Sánchez, John Tsotsos, The roles of endstopped and curvature tuned computations in a hierarchical representation of 2D shape. PLoS ONE 7 (8), pp. 1–13, 2012.  [Abstract] [BibTeX]
- **Jim Little** is giving an extended talk on **Finding Objects in Cluttered Scenes for Home Robotics** on 24 April 2012, 14:15-15:30, in HS D.
- **Stille Welt - Gehörlos in Tirol** - the Tyrolean street newspaper reports on the **SignSpeak** project. (20er, pp. 6-7, April 2012, in German)
- Justus Piater is an **invited speaker** at the **CogSys 2012 Workshop on Deep Hierarchies in Vision** in Vienna, 21 February 2012.
- **Übersetzungslücken schließen** - the UIBK supplement to an Austrian newspaper reports on our **SignSpeak** project (**wissenswert** 18 pp. 16-17, February 2012, in German)
- **Ales Leonardis** is giving a talk on **Combining compositional shape hierarchy and multi-class object taxonomy for efficient object categorisation** on 1 December 2011, 16:15, in HS C.
- Justus Piater is an **invited speaker** at the **29th Pattern Recognition and Computer Vision Colloquium** in Prague, 13 October 2011.
- Justus Piater is an **invited speaker** at the **R:SS Workshop on Mobile Manipulation: Learning to Manipulate** in Los Angeles, 27 June 2011.

- **Brian Moore** is giving a talk on [Transferring grasping skills from humans to robots](#) at the Computer Science Department (ICT Building, Seminar Room 1), 25 May 2011, 12.00-13.00.
- Justus Piater lectures at the **CogX 2011 Spring School** in Vienna, 27.4.-5.5.
- **Inaugural Lecture - Antrittsvorlesung** by Justus Piater: 14 April 2011 17:00 in the large auditorium of civil engineering - *Großer Hörsaal der Fakultät für Bauingenieurwissenschaften*.
[Einladung \(Invitation, in German only\)](#) [Video \(in German only\)](#)
- [Schlaue Roboter im Haushalt](#) (iPoint 13.04.2011, in German)
- [Roboter lernen lernen](#) (zukunft forschung 2/2010, in German)

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