



FINAL Call for Participation

IEEE RAS International Summer School on "Deep Learning for Robot Vision"

December 9-13, 2019 in Santiago & Rancagua, Chile.

<http://robotvision2019.amtc.cl/>

Important information (check below for details)

- New call: Registration for students closes on Wednesday 4th, December 2019.
- New call: Registration for professionals closes on Monday 2th, December 2019.
- New call: Application for student travel support grant closes on Friday 29th, November 2019.

Overview

IEEE RAS International Summer School on "Deep Learning for Robot Vision" targets students (Master / PhD level and last years of undergraduate), researchers and professionals interested in Robotics, Robot Vision, Deep Learning and related topics. The official language of the summer school is English, and it includes tutorial courses, keynote lectures, and a student poster competition. Travel support grants are available. Check the preliminary program: <http://robotvision2019.amtc.cl/index.php/program/>

Registration for Students

A new registration process for students is be available until Wednesday December 4th. There are no registration fees for students regardless of their nationality or country of affiliation. The remaining places will be filled on a first-come first-serve basis. The registration does NOT cover accommodation or meals. To apply fill the following link (must include student certificate & letter of intent): <https://forms.gle/AwCUJobsY8akQmmk7>

Registration for Professionals / Researchers / Academics

A new registration process for Professionals / Researchers / Academics is be available until Monday December 2nd. In addition, to the full registration, we have added the possibility to register to attend particular days. The registration does NOT cover accommodation or meals. Please contact us (rodrigo@verschae.org) for further instructions.

Application for the Travel Support Grant for Students

The travel grant program for students provides support for international and national students attending the summer school. The application process closes on Friday 29th November. For the remaining grants, priority will be given to Chilean and Latino-American students, but students from other countries can still apply. To apply you will need to update a letter of recommendation/intent, a CV and a student certificate. The travel support grants are:

- Chile: 0USD for RM; 100USD for V & VI regions; 200USD for other regions in Chile.
- Latin-America: 450USD
- Other regions from abroad: 900USD

To apply fill the following link: <https://forms.gle/j8WFLhgB68m3v7d7>



Organizers

The Summer School is co-organized the Institute of Engineering Sciences of the Universidad de O'Higgins, Chile and by the Advanced Mining Technology Center of the Universidad de Chile. The summer school is co-funded by the IEEE Robotics and Automation Society (RAS) Summer School Program, technically sponsored by the IEEE RAS Technical Committee on Robot Learning, and supported by the IEEE RAS Chilean Chapter. This Summer School follows the successful IEEE RAS Summer School on "Robot Vision and Applications" organized in Chile in 2012.

Program

The Summer School will provide a clear overview of Deep Learning methods in Robotics with a particular emphasis in robot vision, while also providing an in-depth analysis of state-of-the-art research in this area. The Summer School will have presentations by renowned international speakers, including:

- Niko Sünderhauf, Australian Centre for Robotic Vision & Queensland University of Technology
- Jens Kober, Cognitive Robotics department, Delft University of Technology
- Juxi Leitner, Australian Centre of Excellence for Robotic Vision
- Stefan Leutenegger, Imperial College London
- Wei Pan, Cognitive Robotics department, Delft University of Technology

We will have introductory lectures, keynote lectures and short advance courses in the following topics: Introductory to deep learning for robot vision, Introduction to the ethics of artificial intelligence, Deep Learning for Robotic Grasping and Manipulation, Deep Reinforcement Learning for Robotics, Spatial AI for mobile robots, Sparse Bayesian (Deep) Learning for Robotic, Learning State-Representations, Semantic SLAM, The Importance of Uncertainty for Deep Learning in Robotics, Similarities and differences between artificial intelligence and the human brain, Deep Photovoltaic Prediction, Building neural networks through neuroevolution, Bridging the simulation-to-reality-gap using generative neural networks, and Deep Reinforcement Learning for Robotic Navigation and Collision Avoidance. In addition, we will have a student poster contest on robotics.

A detailed program is available at the Summer school website

<http://robotvision2019.amtc.cl/index.php/program/>

Best regards,

Rodrigo Verschae, Universidad de O'Higgins

Javier Ruiz-del-Solar, Universidad de Chile

General Chairs

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