Call for Participation

The IEEE-RAS Technical Committee PEBRAS organizes a Summer School as part of the IEEE RAS Technical Education Program. As the complexity of robotic and intelligent systems grows, it is more and more necessary to adhere to sound experimental approaches and benchmarking procedures. It is of fundamental importance that the next generation learns good experimental, performance evaluation and benchmarking methods as part of their technical education.

IEEE graduate students will have a unique training opportunity in these important topics. Students will closely interact for one week with some of the top-level researchers in the world relevant to this domain. They will also have the opportunity to discuss their research work with them.

Aims and scope

Participants will learn how to implement approaches with exhaustive experimental methodology and apply appropriate benchmarking procedures to compare the actual practical results with reference to standard accepted procedures; how experimental results can be replicable and refutable on the one hand, and quantitatively comparable according to community-endorsed metrics, on the other hand. At the end, a student should be able to provide an educated response to the following questions:
- How research should be performed and reported in order to allow result replications
- How should competitions be designed in order to maximize their contribution to robotics research and the industrial exploitation of results
- To which extent and for measuring which functionalities and capabilities are benchmarks useful and possible
- Which balance of result replication, benchmarking, challenges and competitions would allow a more objective evaluation of results and consequent objective assessment of the state of the art in the various subfields of their domain of research

Program

The school will take place for one week from Monday to Friday. The Program will consist of morning lectures and afternoon experimental sessions. There will be panel discussions and complementary activities such as informal discussions and poster presentations.

Venue

The school will take place in a cosy hotel at Benicassim on the Mediterranean coast of Spain.

Registration fee, covering tuition, course material, accommodation and meals, is 700 euros for IEEE members.

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