



The Second Summer School on Representation in Artificial Intelligence

June 6-13, 2019



The ability to model and represent the world around us in our heads is critical to human intelligence. Not only do we create a representation of the world visible to us, we make inferences from what we know to expand our knowledge to include hidden facts that must be true, or most likely true. We categorize the world around us into taxonomies, we reason about time and the effects of events and actions, we reason about what other people know and believe and about their intentions, to arrive at decisions in tune with our goals. If we are to build agents, be they robots or virtual agents, we will need to impart this ability to represent knowledge and reason with it to them too.

In the second summer school on Representation in Artificial Intelligence (RinAI-2019) we cover the foundations of knowledge representation and the logical foundations of reasoning needed by such autonomous and intelligent agents.

The aim of the summer school is to bring budding AI researchers up to date with this important aspect of building intelligent machines. The summer school will cover the following topics – First Order Logic, Event Calculus, Default Reasoning, Description Logic and Ontology, Epistemic Reasoning, Graphical Models, Cognition, and Causality.

The summer school is targeted at PhD students and young scientists starting work in AI. There are a limited number of seats, and applicants with a demonstrated interest in the area will be given preference. Selected participants will be provided accommodation and food. A few seats may be available for faculty and industry-sponsored persons on payment of registration fees of INR 3,000 and INR 10,000 respectively.

Please look at the <http://www.rinai.iitmandi.ac.in/> for who can apply and the application process. For any queries please write to rinai@iitmandi.ac.in

Location: IIT Mandi, Kamand, Mandi, Himachal Pradesh (175005)
June 6-13, 2019

Program Chair:
Deepak Khemani (IIT Madras)
Sutanu Chakraborti (IIT Madras)

Organizing Chair:
Astrid Kiehn (IIT Mandi)

Speakers:

Sutanu Chakraborti (IIT Madras)
Sujata Ghosh (ISI Chennai)
Deepak Khemani (IIT Madras)
V Raghava Mutharaju (IIIT Delhi)
Manikandan Narayanan (IIT Madras)
Baskaran Sankaranarayan (IIT Madras)
Partha Talukdar (IISc Bangalore)