Seminar/Talk

ELLIS Talk: Geometric Gaussian Processes

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Host: Christoph Lampert

Gaussian processes (GPs) are often considered to be the gold standard in settings where well-calibrated predictive uncertainty is of utter importance, such as decision making.It is important for applications to have a class of general purpose GPs. Traditionally, these are the stationary processes, e.g. RBF or Matrn GPs, at least for the usual vectorial inputs. For non-vectorial inputs, however, there is often no such class. This state of affairs hinders the use of GPs in a number of application areas ranging from robotics to drug design.In this talk, I will consider GPs taking inputs on a manifold, on a node set of a graph, or in a discrete space of graphs. I will discuss a framework for defining the appropriate general purpose GPs, as well as the analytic and numerical techniques that make them tractable.

Wednesday, June 7, 2023 04:00pm - 05:00pm

Heinzel Seminar Room / Office Bldg West (I21.EG.101)

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