IIM - Statistical Machine Learning: Inference on Intractable Models

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Job description: We are looking for a summer trainee interested in doing basic research in statistical machine learning. Our core expertise is learning from complex and multiple data sources using Bayesian methods. In the recent works of Approximate Bayesian computation (ABC), methods are being developed for intractable models (e.g., where computation of likelihood is infeasible) by computing the similarity between two datasets using summary statistics. In this project we develop new fast ways of both choosing the summary statistics and using them in ABC, combining recent ideas from large-scale machine learning. Students already having or intending to have a strong background in mathematics and interest in model development are especially encouraged to apply.

Additional information: http://research.ics.aalto.fi/mi/research.shtml