

## **Einladung zur Vortragsreihe** *Algorithmische Bioinformatik*

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spricht über

### **Bayesian approach for computational modeling of biological systems**

Datum: Dienstag, 23. Dezember 2008

Zeit: 16:00 Uhr s.t.

Ort: B-IT, Dahlmannstr. 2, Rheinsaal

Bioinformatics and the new emerging field systems biology should meet the requirement of systematic integration of experimental and computational research in order to gain insights into functioning of biological systems. Building computational models of biological processes, making simulations and predictions under the models become of great importance. Bayesian methodology comprises a good theoretical basis hereto.

I will try to exemplify this with a method for inferring genetic regulatory interactions from expression data, and with an approach for modelling signaling pathways. At the end, I will motivate a multi-agent system for modeling and simulation of biological processes, and briefly introduce further bioinformatics and systems biology research challenges.