Mathematics and CS Seminar

Periodicity scoring of time series

Caroline Moosmüller (University of California, San Diego)

Host: Jan Maas

Biological data sets, such as gene expressions or protein levels, are often high-dimensional, and thus difficult to interpret. Finding important structural features and identifying clusters in an unbiased fashion is a core issue for understanding biological phenomena. In this talk, we describe methods to score periodicity of time series which can be applied to biological processes such as the cell cycle. We consider trending, damping and local vs. global time dependence. Furthermore, we discuss clustering algorithms based on optimal transport to classify time signals based on their overall periodicity.

Thursday, August 22, 2019 02:00pm - 03:00pm
IST Austria Campus Heinzel Seminar Room / Office Bldg West (I21.EG.101)

This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: https://ist.ac.at/en/campus/how-to-get-here/ The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.