



## Institute colloquium

# Dynamic graph algorithms: What they are and why they are needed?

**Monika Henzinger**

University of Vienna

Host:

Graphs are used in many application domains to model entities and their relationships, such as social networks, the world-wide web, road maps, and communication networks. In a social network, for example, the entities are the users and their relationships are induced by their friendships in the social network. As a recent study showed, graphs modeling over a billion pair-wise relationships are ubiquitous. Additionally, many such graphs are not static, but are subject to a variety of changes. This leads to question how quickly information about a graph, for example which entities form clusters, can be updated when a change occurs. We will survey the state-of-the art of this research area on dynamic graph algorithms.

**Monday, November 12, 2018 04:00pm - 05:00pm**

Raiffeisen Lecture Hall



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.