



Lunchtime Lecture

18.10.2023, 12:00 (s. t.)

Institut Zentrum für Informationsmodellierung, Elisabethstraße 59/III, Lehrsaal SR 81.31

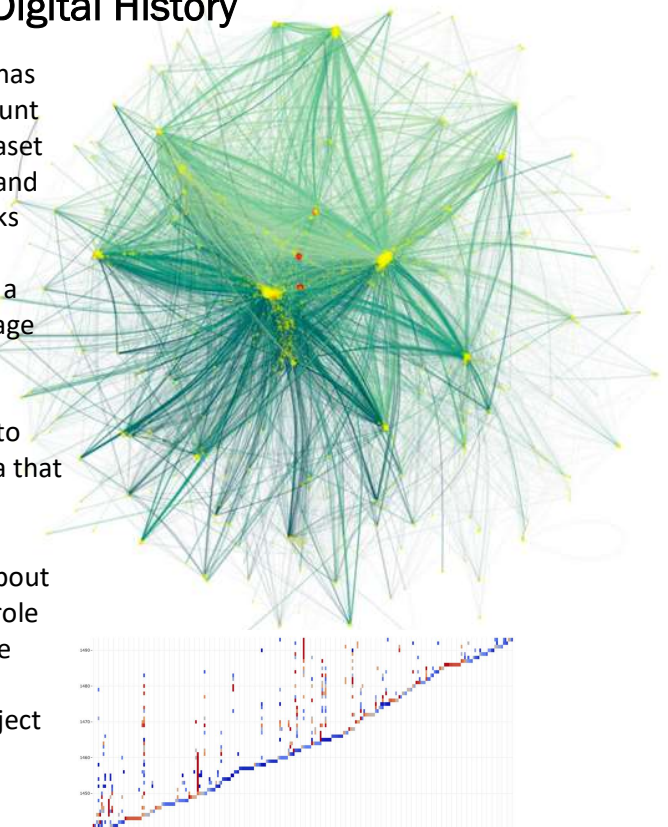
Marcella Tambuscio

**Institut Zentrum für Informationsmodellierung
Universität Graz**

Advanced Network Analysis Tools from Social Science to Digital History

The multidisciplinary study of collective human interactions has been a key research approach in the last decade, as the amount of digital footprints for everyday interactions provided a dataset for understanding the dynamics of networks of interactions and testing sociological and economic theories. Complex networks have proved to be particularly powerful tools for modelling interactions among agents, which has been of great value to a wide range of research fields. Despite their potential, the usage of networks in digital history has often been limited to the creation and visualisation of historical relational data. Only recently have researchers begun to apply network methods to the analysis and exploration of the incredible amount of data that has been digitised in the recent decades.

The first part of this presentation will present case-studies about (mis)information spread in social networks, focusing on the role of network topology and polarisation. The second part will be dedicated to the applications of network analysis in digital history, with some preliminary results from the research project ManMax (interdisciplinary prosopography of the reign of Habsburg emperor Maximilian I [1459–1519]).



Marcella Tambuscio is a Postdoctoral Researcher at the Institut Zentrum für Informationsmodellierung, Universität Graz. She received her PhD in Computer Science from the University of Turin in 2017, focusing on spreading phenomena in social networks. In 2020 she joined the Austrian Digital Humanities community, and is currently involved in the prosopographical research project ManMax. Her main research goal is exploring network science and machine learning applications in the humanities.



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