Workshop on Social Network Analysis
Indian Institute of Management Kozhikode
April 12-23, 2021

Lecturer: Michael T. Heaney
Home Institution: University of Glasgow
Email: michaeltheaney@gmail.com

WORKSHOP DESCRIPTION

This workshop examines the theoretical and statistical analysis of social networks from an interdisciplinary perspective. Participants learn about the nature, structures, and dynamics of social networks that are relevant to fields such as management, public health, sociology, politics, psychology, economics, and anthropology. The workshop covers the ontology of networks, major theoretical approaches, common research designs, descriptive statistics, and a variety of techniques for statistical inference. The workshop, conducted virtually over Zoom, includes didactic sessions, hands-on computer exercises, and individualized projects by participants. The principal goal of workshop is for participants to learn to conduct their own empirical research on social networks on a variety of topics.

REQUIREMENTS

Participants are required to attend at least 18 of the 20 sessions of the workshop. Absence from 3 or more sessions will be grounds for discontinuation of participation.

Participants are expected to complete assigned readings in advance of each session and to participate actively in the sessions. (Nonparticipation is equivalent to absence.)

Participants are expected to work actively on computer exercises during the six sessions when they are featured.

Each participant is expected to work individually on a social-network-relevant empirical research project and to present preliminary statistical results from this project on April 23.

BOOKS REQUIRED FOR PURCHASE

https://www.amazon.co.uk/Social-Network-Analysis-John-Scott-dp-1473952123/ref=dp_ob_image_bk

https://www.amazon.co.uk/Inferential-Network-Analysis-Analytical-Research/dp/1316610853/ref=sr_1_1?dchild=1&keywords=inferential+network+analysis&qid=1610302795&s=books&sr=1-1
OUTLINE FOR WORKSHOP

Monday, April 12

Morning (10am to Noon): Welcome, course procedures, requirements, and objectives


Afternoon (2pm to 4pm): Lecture on core concepts in social network analysis


Tuesday, April 13

Morning (10am to Noon): Lecture on major theoretical approaches


Afternoon (2pm to 4pm): Lecture on common research designs


**Wednesday, April 14**

Morning (10am to Noon): Computer exercises (#1) on visualizing networks


Afternoon (2pm to 4pm): Lecture on descriptive statistics


**Thursday, April 15**

Morning (10am to Noon): Computer exercises (#2) on descriptive statistics


Afternoon (2pm to 4pm): Lecture on Exponential Random Graph Models (ERGMs)

Friday, April 16

Morning (10am to Noon): Computer exercises (#3) on ERGMs


Afternoon (10am to Noon): Individualized consultations

Monday, April 19

Morning (10am to Noon): Lecture on Temporal Exponential Random Graph Model (TERGMs)


Afternoon (2pm to 4pm): Computer exercises (#4) on TERGMs


Tuesday, April 20

Morning (10am to Noon): Valued-Edge ERGMs: The Generalized ERGM (GERGM)


Afternoon (2pm to 4pm): Individualized consultations
Wednesday, April 21

Morning (10am to Noon): Computer exercises (#5) on GERGM


Afternoon (2pm to 4pm): Lecture on models of ego networks


Thursday, April 22

Morning (10am to Noon): Computer exercises (#6) on models of ego networks


Afternoon (2pm to 4pm): Individualized Consultations

Friday, April 23

Morning (10am to Noon): Student presentations

Afternoon (2pm to 4pm): Student presentations, seminar reflections, and wrap up