












GIScience-Colloquium
Tuesday 16:15 / Room Y25 H-79

Date	Speaker	Title	
07.03.2023	<i>MSc Concept Talk</i> 	Tobias Kuster UZH GIS	Identifying vulturine guineafowl social behaviour from accelerometer data using deep learning approaches
		Chantal Angela Meier UZH GCO	The Image of Zurich - Investigating the Lynchian elements of the "Image of the City in the City of Zurich"
21.03.2023	<i>MSc Concept Talk</i> 	Carmen Pfoster UZH GCO	Energy Poverty in Switzerland? A geospatial analysis.
		Marco Stutz UZH GCO	Geospatial Sentiment Analysis of different Energy Sources using historical Twitter Data
04.04.2023	<i>MSc Concept Talk</i> 	Gregory Biland UZH GIS	Analysis of road traffic accidents between bicycles and motorized private transport in the city of Zurich before and during the COVID-19 lockdown
		Vibiga Vinotharajah UZH GIVA	Cultural Influence on Map Reading: A Difference between Swiss and Tamil People
		Silvia Juen UZH GIVA/GIS	Accessibility evaluation for persons with disabilities: A multicriteria analysis
18.04.2023		Prof. Stephen Fairclough Professor School of Psychology <i>Liverpool John Moores University, UK</i>	Creating Neuroadaptive Interactions with Technology
25.04.2023		Prof. Alison Hepenstall Professor for Geocomputation School of Geography <i>University of Leeds</i>	Simulating social systems with individual-based models: are they worth it?



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Date	Speaker	Title
02.05.2023	 <p>Dr. Alina Ristea Assistant Professor Dept of Security and Crime Science Faculty of Engineering Science <i>University College London UCL</i></p>	Geospatial crime analysis: From mapping to prediction
09.05.2023	 <p>Prof. Krzysztof Janowicz Professor for Cartography and Geoinformation Science at the Faculty of Earth Sciences, Geography and Astronomy <i>University of Vienna</i></p>	tba
16.05.2023	 <p>Prof. Veronica Barassi Professor for media and communication studies <i>University of St. Gallen (HSG)</i></p>	tba
30.05.2023	 <p>Qi Ying PhD Concept Talk</p>	From Maps in the Head to Maps in the Hand: Towards Familiarity-adaptive Mobile Navigation Systems



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Date

Speaker

Title

18.04.2023



Prof. Stephen Fairclough

Professor
Faculty of Health
School of Psychology
Liverpool John Moores University,
UK
[More...](#)

Creating Neuroadaptive Interactions with
Technology

Abstract

Neuroadaptive Technology is an emergent technology where software adapts intelligently to the psychological state of the user. This closed-loop system works by translating neurophysiological data into intelligent responses at the user interface. This talk will consider how these neuroadaptive interactions are created and designed with examples from past research. The development of this technology faces significant challenges, from ensuring signal quality to creating a repertoire of system responses. Neuroadaptive technology also raises sociotechnical issues, from preservation of human autonomy to data privacy. It is concluded that careful design of the user interface is required to deliver genuine benefits to the user while preserving human freedom and autonomy.

Bio

Stephen Fairclough received his PhD from Loughborough University in 2000. He currently is a Professor of Psychophysiology in the School of Natural Sciences and Psychology at Liverpool John Moores University (LJMU). He has been involved in applied psychophysiological and neuroscientific research for over twenty-five years. His main areas of methodological expertise cover EEG, fNIRS and cardiovascular in both laboratory and field settings. He has co-edited two collections on physiological computing and a recent collection on neuroadaptive technology.

Date: Tuesday, April 18, 2023

Time: 16:15 – 17:30

Room: Y25 H-79



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Date

Speaker

Title

02.05.2023



Dr. Alina Ristea

Assistant Professor
Dept of Security and Crime
Science Faculty of Engineering
Science
University College London UCL

Geospatial crime analysis: From mapping to prediction

Abstract

Crime occurrences show different patterns in time and space based on their types, the risky environmental and socioeconomic factors and the offenders involved. Various geospatial techniques have been used to better understand crime patterns, the most common being Kernel Density Estimation (KDE) for finding hot areas where crime concentrates. Similarly, KDE is highly used in crime prediction models. This presentation will show examples of using geospatial methods and data for crime mapping, modelling and prediction. It includes data for both micro-level analyses (e.g. household data, street data) and macro-level analyses (e.g. neighbourhoods, cities). Additionally, there will be a discussion on how academic research is used in practice (e.g. for law enforcement and/or for the municipality).

Bio

Alina Ristea is a Lecturer in the Department of Security and Crime Science of the University College London (UCL). She has a PhD from the Department of GeoInformatics, University of Salzburg, Austria where she studied crime prediction models using data from social media. She worked as a postdoctoral research fellow for Boston Area Research Initiative (BARI) at Northeastern University, Boston, combining academic research and public policy interests. Alina has multiple international publications and collaborations, and her present interests include geospatial techniques for crime analysis, social media mining, predictive analytics, safety perception, and neighborhood disorder.

Date: Tuesday, May 2, 2023

Time: 16:15 – 17:30

Room: Y25 H-79