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The program of the

Diffusion Fundamentals

SPREADING PHENOMENA IN NATURE TECHNOLOGY AND SOCIETY: OBSERVATION, CLASSIFICATION AND COMPREHENSION

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SPREADING PHENOMENA IN NATURE TECHNOLOGY AND SOCIETY: OBSERVATION, CLASSIFICATION AND COMPREHENSION

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Scope

Continuing very successful series of nine conferences in Europe and the Americas, we cordially invite you to join us for the jubilee conference Diffusion Fundamentals X.

Bringing together scholars from economics, archaeology, ecology, epidemics, ethnology, linguistics, political science and sociology with biologists, chemists, physicists, mathematicians and engineers, Diffusion Fundamentals X strives to create an exciting exchange of ideas. It turns out that covering the particular challenges within each of these various disciplines uncovers astonishingly similar patterns of spreading phenomena.

Venue

Tashkent, the capital of Uzbekistan, is renowned for its vibrant cityscape and rich cultural heritage as one of the leading trading centers along the Great Silk Road. As a preferred destination for regional and international conferences, Tashkent offers a multitude of attractions that make it an ideal host for the upcoming Diffusion Fundamentals X conference at New Uzbekistan University.

Chairman



GREATER EURASIA RESEARCH CENTER (HKUST)

Keynote **Speakers**





Coppens

College

***UCL**



Dr. Hans Wiesmith Saxon Academy of Sciences in

Speakers



Organizers

New Uzbekistan University

Sächsische Akademie der Wissenschaften zu Leipzig

GREATER EURASIA RESEARCH CENTER

Sponsors





UNIVERSITAT LEIPZIG

PROGRAM

Day 1			September 6, 2023
08:30-09:00 9	Registration		
09:00-09:05	Odil Abdurakhmanov Advisor to the President on Youth, Scie Education, Health, Culture and Sports	ence,	
09:05-09:10	Honorable Khilola Umarova Minister of Preschool and School Education		
09:10-09:15	Shlomo Weber New Uzbekistan University & Co-Direc	tor, GEAR (HKUST)	
09:15-09:20	Hans Wiesmith President, the Saxon Academy of Scie	nces	
Sessi	on 1		
09:20-10:05	Larry Blume Cornell University	Diffusion of information in social networks	
10:05-10:50	Steven Durlauf University of Chicago	Diffusion of socioeconor across generations	nic influences
10:50-11:10 🖕	Coffee Break		
Sessi	on 2		
11:10-11:55 •	Shlomo Weber New Uzbekistan University & GEAR	Diffusion and Acquisitior of Languages	1

11:55-12:40	Aren M. Maeir Bar Ilan University	Movement of Artifacts, People, and Ideas in Antiquity
12:40-13:40	Lunch	
Sess	ion 3	
13:45-14:30	Monika Zin Saxon Academy of Sciences	Routes of Trade and More: about the Diffusion of Western Art and Indian Tales
14:30-15:15	Hans Wiesmeth Saxon Academy of Sciences in Leipzig	Circular Economy
15:15-15:30	Coffee Break	
15:30-16:15	Paul Castañeda Dower University of Wisconsin	Control through Empowerment: Evidence Nation-Building in Soviet Central Asia

15 **Antoine Parent** 16:15-17:00 University of Paris 8 Ran Nathan 17:00-17:45 Hebrew University of Jerusalem

18:00 **Conference Dinner at NewUU**

Day 2

Session 1

9:00-09:45	Andreas Paul Fröba Universität Erlangen-Nürnberg
09:45-10:30	Marc-Olivier Coppens University College London
10:30-11:15 🖕	Coffee Break
11:15-12:00	Albrecht Fritzsche Rabat Business School

Photon Correlation Spectroscopy to

Characterize Diffusion

Optimization

Nature-Inspired Transport

mpowerment: Evidence from

September 7, 2023

The diffusion of the Great Fear, France 1789.

Movements of Plants and Animals in the Wild

A view from cliometrics and complexity

Elucidating the Mean Drivers that Shape

Basic Topological Structures for the Diffusion of Innovations

12:00-12:45	Boris Goldengorin New Uzbekistan University			
12:45-14:00	Lunch			
Session 2				
14:00-14:45	Ulrich Tallarek Philipps-Universität Marburg			
14:45-15:30	Servar Abdullaev New Uzbekistan University			
15:30-15:45 🔶	Coffee break			
15:45-16:30	Felix Hagemeyer Leipzig University			
16:30 -17:15	Jean-Philippe Platteau University of Namur			
17:15-18:00	Poster presentations			
B.17				

Diffusion of humans out of Africa and the phonemic diversity cline by Joaquim Pérez-Losada

Confinement effects on distribution and transport of neutral solutes in a small hydrophobic nanopore by Nicole Trebel

Dav 3

Session 1		
09:00-10:30	Uwe Junghanns University of Göttingen	Diff
	Gero Vogl University of Göttingen	Dill
10:30-11:30	Jörg Kärger Leipzig University	Diff Ma
11:30-11:50 🔶	Coffee break	
11:50-12:35	Paul Heitjans Leibniz University Hannover	Bet Op
12:35-13:20	Hans Wiesmeth Saxon Academy of Sciences	
	Gero Vogl University of Vienna	Diff Pre
	Jörg Kärger Leipzig University	
Closing C	eremony	
13:20-13:35 •	Venue: Conference Hall	
	Closing speech by	
	Yuldashev Bakhtiyor, Vice-rector of the New Uzbekistan Univer Shlomo Weber, NewUU and GEAR	sity
	Appreciation and awards:	
	Awarding three professors with medals " Gifts to active participants	Hond
13:35-14:30 🔶	Lunch	

Pseudo-Boolean Polynomials in Data Aggregation and their Application

Multiscale Simulation of Sorption and Diffusion in Porous Media

Selfish Routing and The Price of Anarchy

Interactions and Exchange Processes as Driving Forces of Social Development in Ancient Palestine

Institutional innovations: their origins and diffusion mechanisms

Molecular dynamics simulation on self-diffusion coefficients of CO2 in substituted amines by Qu Chen

Diffusion and adsorption of 2-methylpentane and 3-methylpentane in silicalite-1 crystals by Particia Siedel Poster presentations by Boris Straumal

September 8, 2023

ffusion of and in Language

fusion in Nanoporous aterials

ffusion Fundamentals: Past, esence and Future

prary Professor" (New Uzbekistan University); Lunch

14:30-19:00 **Tashkent City Tour**

tter Battery Electrolytes by ptimizing Ion Transport