

Team Retreat and International Workshop 2015

Santorini, Greece

24/06/2015-30/06/2015

Workshop hours: Session 1: 11:00-13:00
Session 2: 15:00-17:00

Day 1 – Wednesday 24/06/2015

Arrival of participants

Day 2 – Thursday 25/06/2015

Workshop: Data Science for Self-regulating Complex Systems

Organizers: Evangelos Pournaras & Iza Moise

Topics: Multi-agent/distributed systems
Ubiquitous/pervasive systems
Collective intelligence
Big Data/Real-time analytics
Complex networks
Crowd-sourcing/citizen science
Domains: social mining, Smart Grids, disaster management, environmental applications, etc.

Preliminary schedule:

Dirk Helbing	Session 1	Opening
Viktoria Spaiser	Session 1	Understanding Environmental Behavior by Combining Big Data and A Theory-Based Field Experimental Approach
Pierpaolo Mastroianni	Session 1	Local Optimization Strategies in Urban Vehicular Mobility

Open Discussion	Session 1	
Evangelos Pournaras	Session 2	Decentralized Regulation & Aggregation of Information Reveal in Nervousnet
Luca Pappalardo	Session 2	Big Data and Real-Time Analytics
Open Discussion	Session 2	

Day 3 – Friday 26/06/2015

Workshop: Complex contagion and behavior change

Organizers: Olivia Woolley

Topics: Complex networks
Spreading processes and their interactions
Epidemics behavior and information

Preliminary schedule:

Olivia Woolley	Session 1	Health Behavior Change through Information Spread: Theory
Iza Moise	Session 1	Health Behavior

		Change through Information Spread: Big Data
Lloyd Sanders	Session 1	Health Behavior Change through Information Spread: The Synthesis
Open Discussion	Session 1	
Fakhteh Ghanbarnejad	Session 2	Co-infection on Global Air Traffic
Maximilian Schich	Session 2	Cultural Science Transcending the Two Worlds and Some Forms of Resulting Cascades
Giulio Rossetti	Session 2	Network Dynamics
Open Discussion	Session 2	

Day 4 – Saturday 27/06/2015

Workshop: Science of Science / Computational Methods

Organizers: Tobias Kuhn

Topics: Scientific networks
Collaboration
Innovation
Memes

Engineering the future of publishing (e.g. altmetrics,
semantic publishing, nanopublications)
High-performance computing with Hadoop

Preliminary schedule:

Tobias Kuhn	Session 1	Semantic Publishing with Nanopublications
Stefano Baliatti	Session 1	Online Experiments with nodeGame
Christian Schulz	Session 1	Collaboration 4.0
Open Discussion	Session 1	
Iza Moise	Session 2	Hadoop Tutorial

Day 5 – Sunday 28/06/2015

Activities

Gala dinner

Day 6 – Monday 29/06/2015

Workshop: Collective Intelligence

Organizers: Richard Mann

Topics: Collective cognition
Distributed sensing
Information aggregation
Social interaction rules
Optimal group formation

Ensemble learning
Collective task management

Preliminary schedule:

Richard Mann	Session 1	Designing Incentives
Takuto Sakamoto	Session 1	CI in pastoralists
Maksym Romenskyy	Session 1	Self-organisation under Bounded Confidence: from Swarms of Particles to Opinion Dynamics
Open problems / Hacking	Session 1	
Matthias Leiss & Christian Schulz	Session 2	Hedge Fund Project
Stefano Bennati	Session 2	Distributed vs. Centralized Decision Making under Noisy Conditions
Maksym Romenskyy	Session 2	A Fish Turing Test: New Approach to Model Validation
Open Discussion	Session 2	How do we define CI?

Day 7 – Tuesday 30/06/2015

Workshop: ERC / Cooperation / Homo Socialis

Organizers: Heinrich Nax

Topics: Evolution of cooperation
 Mechanism design
 Applications (old and new)
 Homo Socialis
 Historic perspectives from ancient Greece

Preliminary schedule:

Heinrich Nax	Session 1	Mechanism Design and Homo Socialis: Perspectives from Ancient Greece
Stefano Duca	Session 1	Meritocracy with Wealths
Caleb Koch	Session 1	Tullock Contests
Petr Neugebauer	Session 1	Visual Communication: Logo and Momentum
Open Discussion	Session 1	Evolution of Social Structure
Bary Pradelski	Session 2	Rationality from Bottom-up
Matthias Leiss	Session 2	State of my PhD
Dirk Helbing	Session 2	Closing
Open Discussion	Session 2	Road ahead