



CONFERENCE ON  
COMPLEX  
SYSTEMS

CCS

2022

PALMA DE MALLORCA  
17 - 21 OCTOBER

LIGHTNING TALK SESSION

[www.ccs2022.org](http://www.ccs2022.org)

TUESDAY 18th , October

**15:15-16:00 LIGHTNING TALK SESSION**

*Sala Magna*

- 15:00-15:03 **Global misinformation spillovers in the online vaccination debate before and during COVID-19**  
*Jacopo Lenti, Kyriaki Kalimeri, André Panisson, Daniela Paolotti, Michele Tizzani, Yelena Mejova and Michele Starnini.*
- 15:03-15:06 **Impact of one-way streets on the asymmetry of the shortest commuting routes**  
*Hygor Piaget Monteiro Melo, Diogo Mota, José S. Andrade Jr. and Nuno Araújo.*
- 15:06-15:09 **Socioeconomic disparities in mobility behavior during the COVID-19 pandemic in developing countries**  
*Lorenzo Lucchini, Ollin Langle, Bruno Lepri, Nancy Lozano-Garcia and Samuel Fraiberger.*
- 15:09-15:12 **Trajectory Test-Train Overlap in Next-Location Prediction Datasets**  
*Massimiliano Luca, Luca Pappalardo, Bruno Lepri and Gianni Barlacchi.*
- 15:12-15:15 **Complex systems analysis of electronic health records from multiple populations reveals biases in the administration of known drug-drug interactions**  
*Jon Sánchez-Valle, Rion Brattiq Correia, Marta Camacho-Artacho, Rosalba Lepore, Mauro Mattos, Alfonso Valencia and Luis M. Rocha.*
- 15:15-15:18 **Long-term impact of job loss on individual mobility behaviour**  
*Simone Centellegher, Lorenzo Lucchini, Marco Tonin, Bruno Lepri and Marco De Nadai.*
- 15:18-15:21 **Study of rhizosphere colonization patterns and space distribution of the bacterium *Paraburkholderia phytofirmans* in *Arabidopsis thaliana* plants using image analysis**  
*María Francisca Martinich, Cristóbal Portilla, Miguel Carrasco, Eric Goles and Thomas Ledger.*
- 15:21-15:24 **Discontinuous phase transitions in the q-voter model with generalized anticonformity on random graphs**  
*Arkadiusz Lipiecki, Angelika Abramiuk-Szurlej, Jakub Pawłowski and Katarzyna Sznajd-Weron.*
- 15:24-15:27 **Marine Data Science: Animal Trajectory Classification**  
*Jorge Medina Hernández, Jorge P. Rodríguez, Ana M.M. Sequeira and Victor M. Eguíluz.*
- 15:27-15:30 **Gromov Centrality: A Multi-Scale Measure of Network Centrality Using Triangle Inequality Excess**  
*Shazia Ayn Babul, Karel Devriendt and Renaud Lambiotte.*
- 15:30-15:33 **Early warning and first passage of alpha-stable Levy noise in double-well potentials.**  
*Vitus Benson, Jonathan Donges, Jürgen Vollmer and Nico Wunderling.*



- 15:33-15:36      **The growth of Web3 techno-social systems through graph evolution rules**  
*Alessia Galdeman, Matteo Zignani and Sabrina Gaito.*
- 15:36-15:39      **Imposing Betweenness Centrality-Based Control Measures on the Reconstructed COVID-19 Transmission Network**  
*Sara Najem, Stefano Monni, Ghaleb Faour, Jihad Touma, Nada Ghosn, Hamad Hassan, Hawraa Sweidan, Roula Hatoum and Sara Najem.*
- 15:39-15:42      **Can crowdsourcing rescue the social marketplace of ideas?**  
*Taha Yasseri and Filippo Menczer.*