Interdisciplinary connectivity: Understanding and managing complex systems using Connectivity Science

The i-CONN Network is now recruiting 15 PhD students!

The i-CONN network is a €4.1 million Marie Skłodowska-Curie Innovative Training Network (ITN) project funded by the European Commission, under the H2020 program, and is coordinated by Durham University. i-CONN is a consortium of 10 Universities and three partner organisations, and brings together scientists from Astrophysics, Computer Science, Ecology, Geomorphology, Hydrology, Neuroscience, Systems Biology and Social Science. The goal of i-CONN is to train a new cohort of 15 researchers specialized in the developing field of Connectivity Science who will be capable of developing interdisciplinary approaches to connectivity across a range of disciplines and real-life applications in the next five to 10 years. Regular workshops and secondments to other EU partners will develop transferable skills and facilitate the exchange of ideas between ESRs. A very attractive salary and benefits package is offered to successful applicants.

Current Vacancies

1) Spatial and temporal roles of critical nodes in ecogeomorphic systems (Durham University, UK)
2) Minimal models of dynamics on networks to study generic SC/FC relationships (Jacobs University, Germany)
3) Self-organized collective patterns on graphs (Jacobs University, Germany)
4) Catastrophic transitions: Regime shifts in network topology resulting in novel systems (Masaryk University, Czech Republic)
5) Analysis of multi-frequency dynamic coherence networks in large-scale electrophysiological recordings (Aix-Marseille University, France)
6) Scaling connectivity science in fluvial systems (Durham University, UK)
7) Structure in patterns in ordered datasets with applications in astrophysics, neuroscience and archaeology (European University Cyprus, Cyprus)
8) Changing connectivity properties impacting resilience in riverine landscapes as socio-ecological systems (BOKU, Austria)
9) Critical nodes in economic connectivity: A multi-method application to facilitate structural transitions (Masaryk University, Czech Republic)
10) Hotspots and hot moments: the role of connectivity and resilience science for managing human-impacted catchment systems (University of Vienna, Austria)
11) Connectivity within network processes and coupling with global flows (AAISCS, Cyprus)
12) Flows of critical (energy) resources (MODUL University Vienna, Austria)
13) Resilience of human interactions with new landscapes (Durham University, UK)
14) Understanding the emergence of connectivity science in practice: a network of network colleagues (to be confirmed)
15) Using connectivity science to determine the fate (source-pathway-interceptors) of specific diffuse pollutants and pathogens in the water supply chain (Durham University, UK)

Further Information

Please see our website http://iconn.network/ and https://euraxess.ec.europa.eu/jobs/466601 for eligibiltiy requirements and application procedure.