12th Partial Order Workshop

International Workshop on Partial Orders in Applied Sciences

Towards an Understanding of Complex Phenomenon: Applying Partial Order Theory to Multi-Indicator Systems

University of Neuchâtel, 26-27 October 2018

Call for papers

The description of complex phenomena in different scientific fields (such as poverty, well-being, sustainable development, social progress, quality of life, social cohesion, vulnerability, environment risk assessment) by a set of indicators has become increasingly important. When a decision is to be based on this set of indicators then ranking is one of the possible applications. Although indicator systems are widely applied and statistically investigated, there are still many questions open, when partial order is to be applied:

- How could we find latent indicators?
- Can indicator systems be partitioned into a main part and parts considered as "fine tuning"? More generally: Can we define a hierarchy of indicator systems, when a certain complex phenomenon is to be studied?
- Can we explore the indicators, for example can we state that one set of indicators implies another set of indicators?
- Sometimes indicators are built of real data, what then is the advantage of partial order and how could we find a set of implications?
- If indicators are measured ones, then how to deal with data uncertainties?
- How can we include the qualitative knowledge, which cannot be expressed by indicators-for example with respect to simple aggregation schemes: how to include weights within the framework of partial orders?

The conference activities will be in English. There is no fee for registration. We welcome work from all scholars and academics on any related to the topic of partial order theory, and/or its application to social indicators.

Instructions for submission of abstracts:

Interested applicants wishing to present original research should send their abstract to tugce.beycan@unine.ch. The abstract should be about 500 words and it should include the title of the paper, the name of the author(s), present address (including e-mail address), and the name of the institution to which the author is affiliated.

Deadline for submitting abstracts:

- Abstract submission: March 31, 2018
- Acceptance/rejection notification: April 20, 2018

Scientific advisory board members: Tugce Beycan (Université de Neuchâtel), Rainer Brüggemann (Leibniz-Institute of Freshwater Ecology and Inland Fisheries), Filomena Maggino (Universita di Roma Sapienza), Christian Suter (Université de Neuchâtel).

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