



INTELLIGENT SYSTEMS IS'14
Warsaw, Poland
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<http://www.ibspan.waw.pl/ieee-is2014/>

INVITED SESSION ON
Intelligent Systems and Advanced Models in Spatio-Temporal Context

Organiser

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Scope:

Spatio-temporal data is present in many fields of research: from climatic studies and air pollution to demographics and wildlife, from positioning strategies to strategies to predict and model consequences of natural disasters. A common theme in all these, is that there are a lot of data to process, in various formats and representations from various sources. The data is highly prone to uncertainty and imprecision, as it may have missing information, constitute predictions or not be perfectly matched all together. Temporal data has similar issues: a person's notion of time is relative, and it is very natural for humans to reason with it in such a way. Historical data also are prone to imperfection and to different interpretation.

Processing the data, which usually involves combining or interpreting, is getting more complicated. This is due to the fact that modern technologies allow more data to be captured, resulting in too much data to be considered manually, but also due to the fact that more detailed connections and results are desired.

This invited session considers the various aspects of bringing Intelligent Systems into play when dealing with spatio-temporal data. This involves not only aspects related to the processing of the data, but also aspects related to the internal modelling structures as well as the representation of complicated data to end users. As such, the topics are:

- Data representation models for spatio-temporal information
 - Internal representation
 - Novel representations for user interaction
- Intelligent processing of spatial and temporal data
 - Fuzzy processing, rulebase systems
 - Other, non-standard approaches

Papers should be submitted by **15th March, 2014** and sent by e-mail directly to the organisers of the session.