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NECTAR in the Azores!

NECTAR 2013 International Conference on
"Dynamics of Global and Local Networks"

St. Miguel, Azores Islands (Portugal), 16-18 June 2013

Call for Papers:

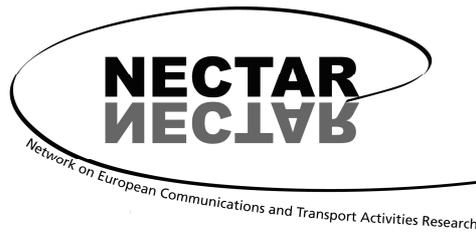
Resilience and Vulnerability in Complex Spatial Networks

NECTAR is organizing a set of cross-cluster Special Sessions (3 or 4 papers each) focusing on the topic "Resilience and Vulnerability in Complex Spatial Networks". The special sessions aim to bring together leading researchers from Europe, the United States and elsewhere. Arrangements for publication of the papers presented are under consideration.

Topics of Interest

Many dynamic networks are increasingly examined from a multi-layer and multi-actor perspective and address issues like evolutionary behaviour, endogenous growth, resilience and vulnerability. In particular, the literature on network infrastructures, which explores the vulnerability/robustness to shocks, has grown considerably in recent years, demonstrating the relevance of this issue. In parallel, a number of different approaches (such as mathematical programming, general equilibrium models, network analysis, simulation tools, etc) which are able to identify network vulnerability/fragilities, have also been investigated: approaches that also show the complexity of the related models and analyses.

These Special Sessions on "**Resilience and Vulnerability in Complex Spatial Networks**" at the NECTAR International Conference in the Azores aim to discuss and create a perspective on the state of the art in this context (e.g., definitions, measurements and interpretations of resilience and vulnerability) as well as on recent advances concerning the potential applications in the transport and communication networks. Topics of interest include (not exhaustively):



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- Resilience measures for critical infrastructures
- Vulnerability analysis in supply chains
- Adaptability to natural and man-made hazards
- Reaction-diffusion urban dynamic processes
- Interdependencies of networks, such as financial/communication contexts
- Diffusion and cascading processes of risk and shock propagation

Deadline for submissions is: 30 November 2012

Abstracts should be submitted electronically using the form available on the Conference website:

<http://www.apdr.pt/NECTAR2013conference/index.html>

A copy of the abstract should also be sent to: aura.reggiani@unibo.it;
f.medda@ucl.ac.uk

Registration, meals and accommodation for 2 nights (16-17/6/2013) will be offered to NECTAR-members, for only one author per paper. All practical details will be communicated through the Conference Website. In order to participate in the Conference, a consecutive two-year NECTAR membership (2012–2013 or 2013–2014) is necessary. Non-members can find details of how to join the association on the “Membership” page of NECTAR’s website:

<http://www.nectar-eu.org/>

Looking forward to meeting you in St Miguel!

Aura Reggiani (University of Bologna) and *Francesca Medda* (UCL, London)