

Workshop on Destructive Events in Technological Systems – Identification, Design and Solutions. (Dubai, PCO 2011)

CALL FOR PAPERS

As part of
**The International Conference on Power Control and Optimization
(PCO 2011)**

<http://www.pcoglobal.com/index.htm>

June 1 - 3, 2011

Meridian hotel, Dubai, Unites Arab Emirate

Submission Deadline: March 21, 2011

SCOPE AND OBJECTIVES

Various technological systems, designed by humans, suffer by various failures, which can lead not only to local damages, but also to the entire collapse of the system. Examples of such events can include bridge collapsing, blackout in the power system, ship stability, stock exchange collapse, etc. Typical tools used for the study of such events are catastrophe theory, chaos theory amongst others. The main aim of this workshop is to collect the state of art participations which will discuss various technological malfunctions, their analysis, identification or design of various technologies which will help to avoid such dangerous events with the assistance of standard mathematical as well as modern heuristical methods. Participation can be focused theoretically as well as practically.

This workshop will establish a forum for the presentation and discussion of recent trends in the area of intersection of emerging technologies for researchers, students and academics.

The Workshop topics include (but are not limited to) the following:

- Applied catastrophe theory on the failure of technological devices
- Chaos generating behavior, control and system design
- Complex Networks, evolution and self-criticality
- Safe design of technological devices
- Analysis of destructive event
- Application of classical and modern (heuristic) methods for system failure analysis, identification and design of safe solutions.

PAPER SUBMISSIONS

You are invited to submit original and unpublished research works on above and other topics related to technological failures, its analysis and safe design. Submitted papers must not have been published or simultaneously submitted elsewhere. Submission should include a cover page with authors' names, affiliation addresses, fax numbers, phone numbers, and email addresses. For detail information about formatting, please see conference website. Please include page numbers on all submissions to make it easier for reviewers to provide helpful comments. Submit a PDF copy of your full manuscript via email to the Workshop organizer at ivan.zelinka@vsb.cz.

Only PDF files will be accepted. Each paper will receive a minimum of three reviews. Papers will be selected based on their originality, relevance, technical clarity and presentation. Authors of accepted papers must guarantee that their papers will be registered and presented at the workshop. Accepted papers will be published in the conference proceedings, which will be available at the time of the meeting.

Accepted papers will be given guidelines in preparing and submitting the final manuscript(s) together with the notification of acceptance.

Prospective authors from universities or other educational institutes and industry are invited to submit a full paper by email before the deadline. All papers will be peer reviewed by independent specialists.

The conference proceedings will be published in the PCO CD. Selected papers will be published online by AIP proceeding. Some other selected papers will be submitted to Elsevier, Springer, InderScience, GJTO, T&F, PE and others for special issue journal publication.

IMPORTANT DATES

Paper Submissions: ----- **March 21, 2011**
Acceptance Notification: ----- **March 31, 2011**
Camera Ready Papers : ----- **April 25, 2011**
Registration: ----- **April 30, 2011**

Workshop ORGANIZER

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International Program Committee:

All submitted papers will be rigorously reviewed by the workshop technical program committee members following criteria used in PCO 2011.

Ivan Zelinka, Technical University of Ostrava, Czech Republic

Donald David Davendra, Technical University of Ostrava, Czech Republic

Guanrong Chen, City University of Hong Kong, Kowloon, Hong Kong,
China

Mohammed Chadli, University of Jules Verne, France

Jouni Lampinen, University of Vaasa, Finland

Radim Briš, Technical University of Ostrava, Czech Republic

If you have any questions about the PCO 2011 conference paper submission, please use contact pcoglobal@gmail.com or consult the conference web site at <http://www.pcoglobal.com/dubai/PCO2011DUBAI.htm>.