

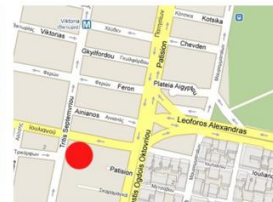
Radical developments in telecommunications and sensor technologies are about to change the way that civil engineering design and infrastructure maintenance are conceived and carried out. Indeed, within the next ten years smart structural elements with embedded sensors and systems capable of self-diagnosis will be a normal part of buildings. These elements will be permanently connected to a distributed management network so that owners, users, and in general, all those involved in the production/management process - connected via the Internet - can check element conditions during production, transport, installation and operation.

Of special importance is the monitoring of civil infrastructure during an earthquake. During such an event structures may exceed their functional or structural limits and this can be visible. On the other hand, they can also suffer enormous damage to their capacity without producing any apparent visible signs. Such damage can result in life threatening conditions evolving in the structure long after the earthquake has happened. Monitoring systems can provide a quick and accurate estimate of the level of seismic damage that can be used to indicate loss of function and a quick and reliable assessment of the capacity of the structure to survive expected aftershocks.

The goal of this workshop is to provide a state-of-the-art report on recent research activities, technological utilisation and commercialisation activities in structural monitoring systems and software for the status-dependent maintenance and repair of constructed facilities.

This event, which is organized by the partners in the EC funded project MEMSCON, will bring together the Structural Health Monitoring community, European construction companies, owners of constructed facilities, insurance companies, policy makers and sector experts.

MEMSCON



VENUE

Athenian Capitol Mall, Ioulianou and Triti Septemvriou Corner, Athens, Greece

Athens, is the capital and largest city of Greece. Athens dominates the Attica periphery and it is one of the world's oldest cities, as its recorded history spans around 3,400 years. The heritage of the classical era is still evident in the city, represented by a number of ancient monuments and works of art, the most famous of all being the Parthenon, widely considered a key landmark of early Western civilization. The city also retains a vast variety of Roman and Byzantine monuments, as well as a smaller number of remaining Ottoman monuments projecting the city's long history across the centuries.

The workshop will be held at the Conference Center of the Athenian Capitol Mall of the Charagionis Foundation in the city of Athens, Greece. The Athenian Capitol Mall also contains a 3D cinema, some 30 shops, and 10 restaurants and cafes and Greece's first Motor Museum. This museum, part of the Foundation, hosts 110 antique and top-of-the-line vehicles, with the oldest on display being a 1895 Hungarian-made fire engine and the newest a 1980 Ferrari 308 GTS.

Accommodation:

Participants are to settle their own bill directly prior to departure.

Suggested Accommodation:

Park Hotel Athens
10, Alexandras Av.
10682 Athens, Greece
Tel: 0030 210 88.94.500
Fax: 0030 210 82.38.420
www.athensparkhotel.gr

Titania Hotel
52, Panepistimiou Str.
10678 Athens, Greece
Tel: 0030 210 33.26.000
Fax: 0030 210 33.00.700
www.titania.gr

www.memsccon.com



Towards Intelligent Civil Infrastructure

March 29, 2012

Athenian Capitol Mall, Athens, Greece



www.memsccon.com

MEMSCON Workshop Call For Papers

MEMSCON workshop will cover, but is not limited to, the following topics:

- Advanced sensing technologies for civil structures: MEMS, fiber optic sensors, bio-inspired sensors, multifunctional materials.
- Wireless Sensor Networks and distributed systems for real-time evaluation of civil structures.
- Monitoring-based assessment of structural condition and maintenance/repair management in construction.
- Field applications: buildings, bridges, tunnels, heritage structures, wind turbines.

Authors are invited to submit a 200-word abstract by email workshop@memscon.com by 1 Oct 2011.

Key Dates

Abstract submission deadline: 1 October 2011
Acceptance of abstracts: 31 October 2011
Full paper submission: 20 December 2012
Acceptance of full papers: 1 February 2012
Registration deadline: 10 March 2012

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Radio Frequency Identification Tags Linked to on
Board Micro-Electro-Mechanical Systems in a Wireless,
Remote and Intelligent Monitoring and Assessment System
for the Maintenance of Constructed Facilities

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Dr. Tom Torf, IMEC, Belgium
Prof. Ming Wang, Northeastern University, USA
Dr. Helmut Wenzel, Vienna Consulting Engineers, Austria
Dr. Daniele Zonta, University of Trento, Italy

Keynote Speakers

Prof. James Brownjohn, University of Sheffield, UK
Prof. Branko Glisic, Princeton University, USA
Prof. Christian Grosse, TU Munich, Germany
Prof. Jerome P. Lynch, University of Michigan, USA
Prof. Kenichi Soga, University of Cambridge, UK



Towards Intelligent Civil Infrastructure

March 29, 2012, Athens, Greece

ATHENIAN CAPITOL

REGISTRATION FORM

Please provide the following information to Despoina Kaneti
by fax or email by 10 March 2012:

Phone Number: +30 210 7721663
Fax Number: +30 210 7722291
Email: workshop@memscon.com

The registration to the conference is free of charge.
Organizational costs are covered by
the **MEMSCON** project

CONTACT INFORMATION

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SURNAME _____
INSTITUTION _____
ADDRESS _____
COUNTRY _____
TEL. _____
FAX _____
E-mail _____