

Call for Papers:
Special Issue on “Seismic Bridge Assessment Methodologies”

International Journal of Engineering, Science and Technology (IJEST)

Call for Papers

*Special Issue on: “**Seismic Bridge Assessment Methodologies**”*

Recent earthquakes all over the world (Mexico 1985, Loma Prieta 1989, Northridge 1994, Kobe 1995, Taiwan 1999, Chile 2010) confirm the seismic vulnerability of existing bridge structures. Many existing bridges (made of concrete, steel, wood or masonry) were designed and built before the introduction of modern seismic design codes. But, existing bridge structures, even if properly designed for earthquake demands, can have a non-adequate seismic performance as a result of a wrong construction and/or installation of its components, or excessive loading due to traffic, temperature variations, structural irregularities, etc. Moreover, the global seismic safety of bridges is affected also by degradation of its components. Periodical maintenance operations can play a crucial role in the preservation of the bridges' safety levels. Besides the human losses, damage and collapse of bridges usually result in an important social and economic impact. The available health monitoring techniques, numerical models, assessment methodologies and strengthening solutions can help to reduce the existing bridge's vulnerability to acceptable levels.

The objective of the issue is to invite contributions from researchers, academicians and practitioners from industries and research establishments in the area of Seismic Bridge Assessment Methodologies. The topics to be covered include, but not limited to:

- Ambient vibration monitoring, Structural health monitoring,
- Seismic vulnerability assessment,
- Capacity and Demand models,
- Fragility curve methodologies,
- Retrofitting techniques,
- Repair and retrofit cost analyses,
- Loss estimation methodologies,
- Limit states of behavior.

Submission Guidelines and Important Dates

Manuscripts should be in English and normally not exceed 7000 words in length (single column, 10 pt running text, double spacing, Times New Romans). All contributions will be subjected to a blind review process. Manuscripts must be sent electronically to the following email addresses:

jmjara70@gmail.com, hvarum@ua.pt, sa_oke@yahoo.com

with the subject title as: Special Issue on “Seismic Bridge Assessment Methodologies” in Word document (Microsoft Word 97/2000/2003 version) not later than December 31, 2010. The official website of the journal is found at www.ijest-ng.com.

Important dates are as follows:

Deadline for full paper submission:	December 31, 2010
First turn of paper review:	January 31, 2011
Second turn of paper review:	February 28, 2011
Final (Camera-ready) paper submission:	March 31, 2011

Addresses of Guest Editors:

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