



## ***Nonlinear Phenomena and Uncertainties: Theoretical Aspects, Computational Tools and Applications***

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We would like to kindly invite you to contribute to this Mini-Symposium, which we are organizing at the **12th World Congress on Computational Mechanics (WCCM XII)** to be held in Seoul, Korea, on 24-29 of July, 2016.

----- Mini-Symposium description -----

The purpose of this mini-symposium is to create a space for discussion and share ideas related to uncertainties in nonlinear systems. Uncertainties are present in many physical systems of interest in engineering applications, and to quantify the propagation of these uncertainties in nonlinear computational models remains a challenge.

Any contribution that deals with modeling and quantification of uncertainties in nonlinear problems of applied mechanics are welcome. In particular, this mini-symposium is specially interested in the following themes: (i) parametric modeling of uncertainties; (ii) non-parametric modeling of uncertainties; (iii) nonlinear system identification; (iv) inverse problems; (v) optimization under uncertainty; (vi) numerical methods for stochastic computations; (vii) efficient methods for uncertainty quantification; (viii) experimental analysis of random systems; (ix) applications in industrial problems.

----- About WCCM XII -----

The International Association for Computational Mechanics (IACM) and the Korean Society for Computational Mechanics (KSCM) are pleased to announce the joint organization of 12th World Congress on Computational Mechanics (WCCM XII) and 6th Asia-Pacific Congress on Computational Mechanics (APCOM VI)

Previous editions of IACM WCCM were held in:

Barcelona, Spain (2014),  
São Paulo, Brazil (2012),  
Sydney, Australia (2010),  
Venice, Italy (2008),  
Los Angeles, USA (2006),  
Beijing, China (2004),  
Vienna, Austria (2002),  
Buenos Aires, Argentina (1998),  
Tokyo, Japan (1994),  
Stuttgart, Germany (1990),  
Austin, USA (1986).

This congress is a forum to communicate and share new ideas and methods that will foster the development across all aspects of computational methods and their applications in mechanics, engineering and applied sciences.

The congress will also give you the opportunity to visit Seoul, one of the most exciting, dynamic and safe cities in the world, and 5th most visited destination in the world. In addition to a decent scientific program, we sincerely hope that you will take a chance to enjoy the culture of Seoul.

----- About Korea and Seoul -----

The Korean Peninsula is located in North-East Asia. It is bordered by the Amnok River (Yalu River) to the northwest, separating Korea from China, and the Duman River (Tumen River) to the northeast which separates Korea from both China and Russia. Because of its unique geographical location, Korea is a very valuable piece of land and an international hub of Asia. The country itself is flanked by the Yellow Sea to its west and the East Sea to the east. There are several notable islands that surround the peninsula including Jeju, Jeju, Jeju and Dokdo.

Seoul, located in the central peninsula, is the largest city and the capital of the Republic of Korea. Although Seoul only makes up 0.6% of the nation's land area, it is very densely populated and contains approximately 10.4 million people – more than a fifth of entire Korean population. About one quarter of the population are students, as there are many reputable educational institutions located in Seoul.

----- Visa information -----

Information about the countries whose citizens require a visa to enter Korea are available at the website:

[http://english.visitkorea.or.kr/enu/GK/GK\\_EN\\_2\\_1\\_1.jsp](http://english.visitkorea.or.kr/enu/GK/GK_EN_2_1_1.jsp)

----- Currency exchange info -----

Korea's official monetary unit is the won. The Korean currency consists of a ten thousand, fifty thousand, and one thousand won note, and five hundred, one hundred, fifty and ten won coins. One U.S. dollar is roughly equivalent to 1,200 won. Please note that exchange rates fluctuate daily; it is recommended to check current rates before making any large transactions.

----- Practical details -----

Deadline for submitting one-page abstract: ~~November 30, 2015~~

**Extended to January 24, 2016**

Acceptance of the contributions: **January 30, 2016**

Deadline for early registration: **March 31, 2016**

More information about WCCM XII may be found at the website:

<http://wccm2016.org/>

We would appreciate if you could forward this information to your colleagues who may be also interested in this conference, and encourage them to submit abstracts to our mini-symposium.

Best wishes,

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