

## Special Issue on Recent Advances in Analytical Methods in Mathematical Physics

### Call for Papers

This special issue is planned to focus on most recent advances in analytical techniques of particular use to researchers in the field of mathematical physics that covers a very wide area of topics and has a key role in interdisciplinary studies including mathematics, mechanics, and physics. In this issue, we are particularly interested in receiving novel contributions detailing analytical methods together with appropriate formulations applied to address problems in mathematical physics.

We aim to compile contributions across a variety of disciplines in mathematical physics and invite researchers to submit original research and/or domain reviews. Potential topics include, but are not limited to:

- Integrability and chaos in dynamical systems
- Nonlinear partial differential equations
- Lie group methods for differential equations
- Nonlinear problems in mechanics
- Control theory
- Geometrical methods
- Plasma physics
- Lie algebras and representation theory
- Statistical mechanics

Before submission authors should carefully read over the journal's Author Guidelines, which are located at <http://www.hindawi.com/journals/amp/guidelines/>. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mts.hindawi.com/> according to the following timetable:

Manuscript Due	Friday, 13 January 2012
First Round of Reviews	Friday, 13 April 2012
Publication Date	Friday, 13 July 2012

### Lead Guest Editor

**Teoman Özer**, Division of Mechanics, Faculty of Civil Engineering, Istanbul Technical University, Maslak, Istanbul 34469, Turkey; [tozer@itu.edu.tr](mailto:tozer@itu.edu.tr)

### Guest Editors

**Vladimir B. Taranov**, Plasma Theory Department, Institute for Nuclear Research, The National Academy of Sciences of Ukraine, Kiev, Ukraine; [vebete@yahoo.com](mailto:vebete@yahoo.com)

**Roman G. Smirnov**, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada B3H 4R2; [rgsmirnov@gmail.com](mailto:rgsmirnov@gmail.com)

**Thomas Klemas**, Lincoln Laboratory, Massachusetts Institute of Technology, 241 Norfolk Street, Cambridge, MA, USA; [tklemas@alum.mit.edu](mailto:tklemas@alum.mit.edu)

**Prakash Thamburaja**, Department of Mechanical Engineering, Faculty of Engineering, National University of Singapore, Singapore; [mpept@nus.edu.sg](mailto:mpept@nus.edu.sg)

**Sanith Wijesinghe**, Millennium Information Technologies, USA; [sanithw@gmail.com](mailto:sanithw@gmail.com)

**Burak Polat**, Department of Electrical and Electronics Engineering, Faculty of Engineering, Trakya University, Edirne, Turkey; [burakpolat@trakya.edu.tr](mailto:burakpolat@trakya.edu.tr)