



# PPSN 2012

12<sup>th</sup> International Conference on  
Parallel Problem Solving From Nature

Taormina, Italy, September 1-5, 2012  
Hotel Villa Diodoro

<http://www.dmi.unict.it/ppsn2012/>  
[ppsn2012@dmi.unict.it](mailto:ppsn2012@dmi.unict.it)

## 3<sup>rd</sup> CALL FOR PAPERS

### General Chairs

**Vincenzo Cutello** – University of Catania, Italy  
**Mario Pavone** – University of Catania, Italy

### Honorary Chair

**Hans-Paul Schwefel** – Dortmund Univ. Of  
Technology, Germany

### Programme Chairs

**Carlos A. Coello Coello** – CINVESTAV, Mexico  
**Kalyanmoy Deb** – Indian Institute Technology, India  
**Stephanie Forrest** – Santa Fe Institute, USA  
**Giuseppe Nicosia** – University of Catania, Italy

### Keynote Speakers

**Angelo Cangelosi** – University of Plymouth, UK  
**Natalio Krasnogor** – University of Nottingham, UK  
**Panos M. Pardalos** – University of Florida, USA  
**Leslie G. Valiant** – Harvard University, USA

### Tutorial Speakers

**Jaume Bacardit** – University of Nottingham, UK  
**Juergen Branke** – University of Warwick, UK  
**Pierre Collet** – Strasbourg University, France  
**Pier Luca Lanzi** – Polytechnic of Milan, Italy  
**Vittorio Maniezzo** – University of Bologna, Italy  
**Martin Pelikan** – University of Missouri in St. Louis,  
USA  
**Roberto Serra** – University of Modena & Reggio  
Emilia, Italy  
**Lee Spector** – Hampshire College, USA

### Important Dates

**Paper Submission:** **March 15, 2012**  
**Author Notification:** June 1, 2012  
**Early Registration Deadline:** June 25, 2012  
**Late Registration Deadline:** August 10, 2012  
**Conference:** **September 1-5, 2012**

### Contacts

**Email:** [ppsn2012@dmi.unict.it](mailto:ppsn2012@dmi.unict.it)  
**Twitter:** [twitter.com/ppsn2012](https://twitter.com/ppsn2012)  
**LinkedIn:** [www.linkedin.com/groups/Parallel-  
Problem-Solving-From-Nature-3808764](http://www.linkedin.com/groups/Parallel-Problem-Solving-From-Nature-3808764)

For information about **press credentials**  
please email to [ppsn2012@dmi.unict.it](mailto:ppsn2012@dmi.unict.it)

### AIMS AND SCOPE

The Twelfth International Conference on *Parallel Problem Solving from Nature (PPSN XII)* aims to bring together researchers and practitioners in the field of natural computing.

Natural Computing is the study of computational systems, which use ideas and get inspiration from natural systems, including biological, ecological, physical, chemical, and social systems. It is a fast-growing interdisciplinary field in which a range of techniques and methods are studied for dealing with large, complex, and dynamic problems with various sources of potential uncertainties.

PPSN XII will be a showcase of a wide range of topics in Natural Computing including, but not restricted to *Evolutionary Computation, Neural Computation, Molecular Computation, Quantum Computation, Artificial Life, DNA Computing, Swarm Intelligence, Artificial Ant Systems, Artificial Immune Systems, Self-Organizing Systems, Evolutionary Robotics, Emergent Behaviors, and Applications to Real-World Problems.*

**Workshops** and **Tutorials** covering fundamental and advanced topics will be featured.

### PAPER PRESENTATION

Following the now well-established tradition of PPSN conferences, all accepted papers will be presented during poster sessions. Each session will contain several papers, and will begin by a plenary quick overview of all papers in that session by a major researcher in the field. Past experiences have shown that such presentation format led to more interactions between participants and to a deeper understanding of the papers.

All accepted papers will be published in the proceedings as a volume of the **Lecture Notes in Computer Science (LNCS)** Springer series.

The format should follow the Springer Verlag LNCS style:  
(<http://www.springer.de/comp/lncs/authors.html>).

Prospective authors are invited to contribute their high-quality original results in the field of natural computation as papers of no more than 10 pages.

### SPONSORSHIPS

The Organizing Committee is pleased to offer PPSN 2012 conference sponsorship opportunities. By sponsoring PPSN 2012, your organization will connect with the Nature-inspired Computing community as you also demonstrate your own leadership in the field. Past sponsors of the PPSN series have included: **Intel, Microsoft, HP** and **many others.**

**Questions?** Please email [ppsn2012@dmi.unict.it](mailto:ppsn2012@dmi.unict.it)