# 2nd International Workshop on

# Visual Formalisms for Patterns

**September 21th, Leganes, Madrid, Spain**
**http://arantxa.ii.uam.es/~jlara/VforP10.htm**

## About the Workshop

Patterns are increasingly used in the definition of software frameworks, as well as in Model Driven Development, to indicate parts of required architectures, drive code refactoring, or build model-to-model transformations. The full realisation of their power is however hindered by the lack of a standard formalization of the notion of pattern. Presentations of patterns are typically given through natural language, to explain their motivation, context and consequences; programming code, to show usages of the pattern; and diagrams, to communicate their structure and behaviour.

Several researchers have indicated the limitations of the current semi-formal devices for pattern definition - generally based on domain modelling languages, such as UML for design patterns, or Coloured Petri Nets for workflow - and research is active to propose rigorous formalisms, methodologies and languages for pattern definition in specific domains, as well as to propose general models of patterns.

The availability of formalisms will make common practices involving patterns, such as pattern discovery, pattern enforcement, pattern-based refactoring, etc., simpler and amenable to automation, and open new perspectives for pattern composition and analysis of pattern consequences.

The workshop will bring together researchers interested in the definition, usage and analysis of patterns through visual formalisms, which couple the simplicity of traditional methods for pattern expression with solid foundations for pattern-based activities. Topics of interest are the following, but the workshop is open to any contribution to the development of the field:

- Formalisation of domain-specific patterns
- Formalisation of generic notions of patterns
- Pattern formalisms for queries on models
- Pattern discovery
- Pattern enforcement
- Pattern-based refactoring
- Pattern languages

The workshop also encourages contributions on formalisations, experiences and tool support for patterns in specific disciplines, like:

- Software Engineering, especially in connection with Model-Driven Development
- Concurrency
- Human-computer interaction
- Information visualization
- Service oriented architectures
- Business process modelling
- Enterprise integration
- Workflows

Submissions in other related areas are also welcome.

## Co-chairs

- Paolo Bottoni – Dept. Computer Science, "Sapienza" Università di Roma, Italy
- Esther Guerra – Dept. Computer Science, Universidad Carlos III de Madrid, Spain
- Juan de Lara – Dept. Computer Science, Universidad Autónoma de Madrid, Spain

## Programme Committee

- Jing Dong, University of Texas, Dallas
- Amnon H. Eden, University of Essex
- Franca Garzotto, Politecnico di Milano
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- John Hosking, University of Auckland
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- Susana Montero, Universidad Carlos III de Madrid
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- Claudia Pons, University of La Plata
- Michael Stal, Siemens AG
- Gerson Sunyé, Université de Nantes
- Toufik Taibi, Independent consultant, Ontario
- Kang Zhang, University of Texas, Dallas

## Submissions and Publication

We solicit both regular (12 pages) and short (5 pages) papers for presentation at the workshop and inclusion in the pre-proceedings. Post-proceedings will be published in the Electronic Communications of the EASST (http://eceasst.cs.tu-berlin.de/index.php/eceasst), the electronic, open access journal of the EASST. The post-proceedings will include selected, revised versions of the regular papers. Submission of papers (in PDF) is via Easychair (http://www.easychair.org/conferences?conf=vffp2010). Each submission will be reviewed by 3 members of the programme committee. Submissions should be in ECEASST format (http://eceasst.cs.tu-berlin.de/template/). We plan to organize a journal special issue with expanded versions of the best papers of the workshop.

## Dates

Submission:      **7 June, 2010**
Notification:    **12 July, 2010**
Final papers due: **2 August, 2010**
Workshop:        **21 September, 2010**

## For further information

Please email vffpchairs@di.uniroma1.it.