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# Process-Centred Approaches for Model-Driven Engineering (PMDE) – First Edition

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**Abstract.** On one hand, the process engineering community has developed a large background on how to specify, to execute and to improve processes. On the other hand, the model-driven engineering community brings new techniques for easing the construction of languages and applications, editors and compilers. The goal of the PMDE workshop is to bring together experts from both communities to discuss the complementarity of these domains and how they can be combined together for a better software productivity and reliability. The workshop will invite contributions from both academia and the industry and will present the emerging research topics with their main challenges.

## 1 Introduction

Despite the benefits brought by the Model-Driven Engineering approach, the complexity of today's applications is still hard to master. Building complex and trustworthy software systems in the shortest time-to-market remains the challenging objective that competitive companies are facing constantly. A more challenging objective for these companies is to be able to formalize their development processes in order to analyze them, to simulate and execute them, and to reason about their possible improvement.

The PMDE Workshop aims to gather researchers and industrial practitioners working in the field of Model-Based Engineering, and more particularly on the use of processes to improve software reliability and productivity.

The PMDE workshop will invite papers presenting research results or work-in-progress in all areas of process-based approaches for model-driven engineering, including:

- Modelling software and systems processes for model-driven engineering
- Domain-Specific Languages (DSL) for modelling software and systems processes
- Transformation-based process modelling: structural and behavioural aspects

- MDE Process patterns: modelling and application
- MDE Process patterns for reuse: definition, search methods, application of patterns
- Process models refactoring and composition
- Process lines and MDE
- Verification of process models
- MDE process enactment and simulation
- MDE Process resource management
- Process metrics for model-driven engineering
- Management of distributed MDE processes
- MDE process evolution: static evolution, process models refactoring, dynamic process evolution, process deviations management
- Process-centred MDE tools
- Description of case studies based on MDE processes, experimentations on real projects, empirical studies

## 2 Submissions and Selection Process

We ask for papers in PDF format and not exceeding 10 pages in the LNCS style. The paper should present original research work related to the above-cited topics and should not be published or submitted simultaneously to other workshops, conferences or journals. Industrial papers are welcome. Each paper will be blindly reviewed by three members of the program committee.

## 3 Program committee

- Colin Atkinson (University of Mannheim, Mannheim, Germany)
- Behzad Bordbar (University of Birmingham, UK)
- Jacky Estublier (University of Grenoble, France)
- Christian Haerdts (EADS, Germany)
- Jason Xabier Mansell (TECNALIA - ICT/European Software Institute, Spain)
- Larrucea Uriarte Xabier (TECNALIA - ICT/European Software Institute, Spain)
- Leon J. Osterweil (University of Massachusetts, USA)
- Richard Paige (University of York, UK)
- Kakade Rupesh (General Motors Technical Centre, India)
- Garousi Vahid (University of Calgary Alberta, Canada)

## 4 Workshop Organizers

- Bendraou Reda (LIP6, France)
- Lbath Redouane (IRIT, France)
- Coulette Bernard (IRIT, France)
- Gervais Marie-Pierre (LIP6, France)