Call for Papers: FormaliSE 2015

3rd FME Workshop on Formal Methods in Software Engineering
to be held on 18 May 2015 in conjunction with
ICSE 2015 (May 16th–May 24th), in Florence, Italy
http://www.formalise.org/

Introduction
The software industry has a long-standing and well-earned reputation for failing to deliver on its promises and it is clear that still nowadays, the success of software projects with the current technologies cannot be assured. For large complex projects, many approaches have proven inadequate to assure the correct behaviour of the delivered software, despite the efforts of the (often very skilled) software engineers involved. The lack of formalization in key places makes software engineering overly sensitive to the weaknesses that are inevitable in the complex activities behind software creation. It is an increasingly complex task to develop large software systems because the systems are huge, with very complex behaviour, and many algorithms employed today are “pushing the limits” of what people can comprehend. This is where formal methods (FMs) have a huge opportunity. The main goal of the workshop is to foster integration between the formal methods and the software engineering communities.

Areas of interest include but are not limited to:
• integration of FMs in the software development life cycle
• ability of formal methods to handle real-world problems
• prescriptive/objective guidance in the use of FMs
• performance analysis based on formal approaches;
• formal methods in a certification context
• “lightweight” or usable FMs
• application experiences
• formal approaches to safety and security related issues
• cyber physical systems
• scalability of FM applications
• experimental validation
• rigorous software engineering approaches and their tool support
• formal approaches to safety and security related issues
• case studies developed/analyzed with formal approaches

The program will start with an invited speaker, followed by presentations of submitted papers. The workshop will end with a round table discussion (PC members and workshop audience), focusing on the subjects that came up during the workshop.

Submissions are limited to 7 pages and must use the IEEE Formatting Guidelines (see http://2015.icse-conferences.org/submission-guidelines for details and templates). They will be published as part of the (electronic) proceedings of ICSE 2015. All papers submitted to the workshop must be unpublished original work and should not be under review or submitted elsewhere while being under consideration. All submissions must be in English and in PDF format through online upload to the workshop submission website at the following URL: https://www.easychair.org/conferences/?conf=formalise2015. Three or four PC members will review all submissions. Papers will be judged on the basis of their clarity, relevance, originality, and contribution to the field.

Proceedings will be published by IEEE Computer Society. At least one of the authors of an accepted paper is expected to register and be present at the workshop.

Important Dates are as follows:
23 January 2015: submission deadline for workshop papers
18 February 2015: notification of acceptance/rejection to authors
27 February 2015: camera-ready copy deadline for workshop papers
18 May 2015: FormaliSE workshop held in Florence, Italy

OC/PC Chairs are Stefania Gnesi (ISTI-CNR, Italy) and Nico Plat (West Consulting BV, The Netherlands). The OC/PC Chairs can be reached via e-mail: oc@formalise.org. If you intend to submit a paper you are invited to inform us in advance.

The Program Committee consists of Keijiro Araki (Kyushu University, Japan), Andreas Bollin (Klagenfurt University, Austria), Ana Cavalcanti (York University, UK), Manfred Broy (Technical University München, Germany), Roderick Chapman (Protean Code Ltd, UK), Nancy Day (University of Waterloo, Canada), Ewen Denney (SGT/NASA Ames, USA), Nicolas D’ippolito (Universidad de Buenos Aires, Argentina), Cindy Eisner (IBM Haifa Research Laboratory, Israel), Alessandro Fantechi (University of Florence, Italy), Antonio Filieri (Università di Pisa, Italy), Jan Friso Groote (Eindhoven University of Technology, The Netherlands), Mats P.E. Heimdahl (University of Minnesota, USA), Claire Ingram (Newcastle University, UK), Peter Gorm Larsen (Aarhus University, Denmark), Marc Lawford (MacMaster University, Canada), Thierry Lecomte (CerSys, France), Yves Ledru (IMAG, France), Axel Legay (INRIA Rennes, France), Antonio Lopes (University of Lisbon, Portugal), Tiziana Margaria (Potsdam University, Germany), Ravindra Metta (Tata Consultancy Services, India), Henry Muccini (Università degli Studi dell’Aquila, Italy), Matteo Rossi (Politecnico di Milano, Italy), Thomas Santen (Microsoft, UK), Laura Semini (Pisa University, Italy), Marjan Sirjani (Reykjavik University, Iceland)