

CALL FOR PAPERS:  
Early Aspects Workshop at AOSD 2009:  
Aspect-Oriented Requirements Engineering and Architecture Design

March 3, 2009, Charlottesville, VA, USA  
<http://www.cs.toronto.edu/~nn/EA09>

Co-located with the  
8th International Conference on Aspect-Oriented Software Development (AOSD.09)

Theme

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The particular theme of this year's workshop is: "learning from other fields and learning from ourselves." The interplay of requirements techniques, architectural design techniques, and early aspects techniques has been investigated for the past few years, and it is now an opportune time to increase the maturity level of the field by bringing together researchers interested in these topics and learn from each other. For example, researchers in requirements engineering have had valuable experiences in dealing with crosscutting concerns in requirements artifacts such as goal models and use cases, e.g., the NFR framework was proposed almost a decade ago to tackle crosscutting concerns in requirements. Researchers in software architecture have identified that while explicitly reasoning about architecture-level aspects is essential, it requires new abstractions and composition mechanisms not previously supported by classical architectural views and general-purpose architecture description languages. In addition, we ourselves deal with crosscutting concerns all the time in our daily lives, e.g., managerial duties cut across research activities. By looking at aspects from another angle will invoke reflection and analogical thinking in a very powerful manner so we can understand aspects better from a broader viewpoint.

Topics

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Potential topics include, but are not limited to:

- \* Aspect-oriented requirements engineering and domain engineering
  - Identification and modeling of aspects in requirements
  - Composition of early aspects
  - Use of requirements aspects for conflict identification and resolution
  - Deriving aspects from domain knowledge
- \* Aspect-oriented architecture design
  - Use of aspects to reason about architectures
  - Evaluation of alternative architectures with aspects
- \* Mapping aspect-oriented requirements, domain analysis and architecture
  - Formal or informal mappings
  - Language features required to support aspect mapping
- \* Tool support and automation for aspect-orientation
- \* Formalisms and notations for specifying early aspects
- \* Viewing aspects not only from the technical side, e.g., how do people handle crosscutting concerns at work

Important Dates

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Submission Deadline: December 15, 2008  
Notification of Acceptance: January 15, 2009

Camera-ready Papers Due:  
Workshop:

January 26, 2009  
March 3, 2009

#### Submissions

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We invite submissions of up to 5 pages in ACM SIG Proceedings format. Papers must be submitted as PDF files to both nn [at] cs.toronto.edu and garciaa [at] comp.lancs.ac.uk See the workshop website for more submission details: <http://www.cs.toronto.edu/~nn/EA09>

\* Accepted papers will be published in the ACM Digital Library.

#### Planned workshop activities

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The workshop is laid out as full day workshop. The format of the workshop reflects its goals: learning from each other, constructive feedback, collaboration, and community building. Participants are expected to read the papers accepted beforehand to be able to contribute to lively discussions about approaches and ideas presented. The morning session will consist of a keynote presentation and paper presentations. Interesting discussion topics will be collected for the afternoon session. In the afternoon we will use the Open Space format in order to discuss topics of interest. The results of the discussion groups will be presented. We also plan to have a panel discussion by the end of the workshop.

#### Organizers

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Alessandro Garcia (Co-chair), Lancaster University, UK  
Nan Niu (Co-chair), University of Toronto, Canada  
Ana Moreira (Co-chair), New University of Lisbon, Portugal  
João Araújo (Co-chair), New University of Lisbon, Portugal  
Paul Clements, Software Engineering Institute, USA  
Awais Rashid, Lancaster University, UK  
Elisa Baniassad, Chinese University of Hong Kong, Hong Kong  
Bedir Tekinerdogan, Bilkent University, Turkey

#### Program Committee

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Mehmet Aksit, University of Twente, The Netherlands  
Vander Alves, Fraunhofer IESE, Germany  
Christina Chavez, UFBA, Brazil  
Paul Clements, SEI, USA  
Anthony Finkelstein, University College London, UK  
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Charles Zhang, Hongkong University of Science and Technology