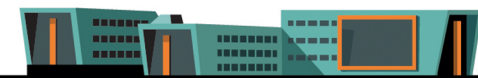

Introduction to M-ADAPT'07 (Model-Driven Software Adaptation)_

Nelly Bencomo, Gordon S. Blair, Robert France



About the Workshop

The goal of this workshop is to explore how to develop appropriate **model-driven approaches** to model, analyze, and validate the volatile properties of **adaptive systems** and its environments. Topics of interest include:

- *Formal notations* for modeling, analysing and validating adaptive systems
- Managing and modeling the *dynamic variability* intrinsic in the structure and behaviour of adaptive systems and their environments
- The relevance and suitability of *different model-driven approaches* to monitoring and managing systems during runtime.
- *Compatibility* (or tension) between different model-driven approaches.
- *Experience* related to the use of run-time models to adapt software systems.
- *Model-driven design* for adaptability



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- *Compatibility* between different model-driven approaches.
- *Experimental* use of run-time models to adapt software systems
- *Model-driven design* for adaptability

c.f. Models@runtime



Programme

9:00 - 9:15: Presentation of the workshop. Gordon Blair and Nelly Bencomo

Session 1: Autonomic and Embedded Systems

9:15 --- 9:40 Development of S&R embedded systems using dynamic adaptation by Rasmus Adler, Daniel Schneider, and Mario Trapp.
Second reader: Helge Parzyjegla

9:40 --- 10:05 A Model-driven Approach to the Development of Autonomous Control Applications by Helge Parzyjegla, Michael Jaeger, and Gero Muehl. Second reader: Mario Trapp

10:05 --- 10:30 On Run-time Behavioural Adaptation in Context-Aware Systems by Javier Cámara, Gwen Salan, and Carlos Canal.
Second reader: Franck Barbier

10:30 - 11:00 **COFFEE BREAK**



Programme (continued)

Session 2: Specific Techniques

11:00 - 11:25 Applying Architectural Constraints in the Modeling of Self-adaptive Component based Applications by Mohammad Ullah Khan, Roland Reichle, and Kurt Geihs. Second reader: Ethan Hadar

11:25 - 11:50 Modeling Software Adaptation Patterns by Hassan Gomaa. Second reader: Mohammad Ullah Khan

11:50 - 12:15 Short papers: stating problems where MDE may be useful (Jo Ueyama, Cyril Ballagny, Franck Chauvel, and Xabier Aretxandieta).

12:15 - 12:30: Wrap-up session. Gordon Blair

12:30 - 2pm **LUNCH BREAK**



Programme (continued)

2:00 - 3:30 Setting agenda of discussion and breaking into discussion groups

3:30 - 4:00 COFFEE BREAK

4:00 - 5:30 Discussion groups + integration of discussions and conclusions



P.S. You are Very Welcome to Visit Us

