

FM2003 Satellite Workshop on Formal Aspects of  
Component Software, 8-9 September, Pisa, Italy

**FACS03 Preliminary Programme**

**Day 1: Monday, 8 September**

**09:00 - 09:30 WELCOME**

- *He Jifeng, UNU/IIST, Macao SAR China*

**09:30 - 10:30 KEYNOTE SPEAKER 1**

- *Manfred Broy, TUM Germany*  
Multi-view Modeling of Software Systems

**Chair: He Jifeng**

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

**11:00 - 13:00 Session 1 . Models and Specifications**

**Chair: Bernhard Aichernig**

- *Sun Meng and Bernhard K Aichernig, UNU/IIST, Macao SAR China*  
A Coalgebraic Calculus for Component Based Systems
- *Nuno Rodrigues, Sidereus, Portugal, and Luis Barbosa, University of Minho, Portugal*  
On the Specification of Component Repository
- *Claire Pagetti, Franck Cassez and Olivier Roux, IRCCyN, France*  
Hierarchical Modeling and Verification of Timed Systems in Timed AtRica
- *Nuno Amalio, Susan Stephney and Fiona Polack, York University, UK*  
Formal Interpretation of UML Models in Z based on templates and generics

**13:00 - 14:00 LUNCH**

**14:00 - 15:00 KEYNOTE SPEAKER 2**

- *He Jifeng, UNU/IIST, Macao SAR China*  
Title: TBA

**Chair: Anders Ravn**

**15:00 - 15:30 COFFEE BREAK**

**15:30 - 18:00 Session 2. Dependency and Coordination**

**Chair: Dang Van Hung**

- *Shui-Ming Ho and Kung-Kiu Lau, University of Manchester, UK*  
Catlysis frameworks in first-order logic
- *Nasreddine Aumeur, Otto-von Guericke University, Germany,*  
*Jose Luiz Fiadeiro, University of Leicester, UK, and*  
*Gunter Saake, Otto-von Guericke University, Germany*  
Coordination Contracts Conceptualization and Validation Using Component-Based Petri Net
- *Sotiris Moschoyiannis, Michael W Sheilds, University of Surry, UK,*  
*and Juliana Kuster-Filipe, University of Edinburgh, UK*  
Formalizing well-behaved components
- *Bernd Schoeller, Swiss Federal Institute of Technology, Switzerland*  
Strengthening Eiffel Contracts Using Models
- *I.S.W.B. Prasetya and T.E.J. Vos, Universidad Politecnica, de Valencia,*  
*S.D. Swierstra, Utretch University, the Netherland, and*  
*B. Widjaja, Universitas Indonesia*  
A Theory of composing distributed components based on temporary interface

## **Day 2: Tuesday, 9 September**

### **8:30 - 9:30 KEYNOTE SPEAKER 3**

- *Tom Maibaum, King College, UK*  
Title: TBA

**Chair: Kung-Kiu Lau**

### **09:30 - 10:00 COFFEE BREAK**

### **10:00 - 11:30 Session 3. Applications**

**Chair: Zhiming Liu**

- *Piotr Makowski and Anders P. Ravn, University of Aalborg, Denmark*  
Component based development - where is the place for formalism?
- *Elena Troubitsyna, Abo Akademi University, Finland*  
Developing fault-tolerant control system composed of self-checking components in the action systems formalism
- *Vishnu Kotrajaras, Chulalongkorn University, Thailand*  
Towards an agent-searchable software component using CafeOBJ specification and semantic Web

### **11:00 - 12:15 PANEL SESSION**

**Chair: Tom Maibaum**

**Panelists: He Jifeng, Kung-Kiu Lau, Tom Maibaum, Anders Ravn**

**CLOSE**