

# FMICS05 Programme

September 5-6, 2005, Lisbon, Portugal

Time	Monday, September 5	Tuesday, September 6
8.00 - 8.45	<b>Registration</b>	<b>Registration</b>
8.45 - 9.00	<b>Opening</b>	
9.00 - 10.00	<b>Keynote Address:</b> The Experience of ATX with the Application of Formal/rigorous Techniques and Methods in Real Projects. Luis Andrade, ATX Software	<b>Keynote Address:</b> Quantitative Analysis of Distributed Randomized Protocols. Christel Baier, University of Bonn
10.00 - 10.30	Model Checking Software with Well-defined APIs: the Socket Case. P. de la Camara, M. del Mar Gallardo, P. Merino, D. Sanan	On-the-Fly State Space Reductions for Weak Equivalences. R. Mateescu
10.30 - 11.00	<b>Coffee</b>	<b>Coffee</b>
11.00 - 11.30	Flush : A System Development Tool Based on Scade/Lustre. J. Mikáč and P. Caspi	Invariants Come from Templates. J. Helin and P. Kellomäki
11.30 - 12.00	Structural Coverage Criteria for Lustre Programs. A. Lakehal and I. Parissis	Enhancing Random Walk State Space Exploration. R. Pelánek, T. Hanžl, I. Černá and L. Brim
12.00 - 12.30	Echo: A Practical Approach to Formal Verification. E. Strunk, X. Yin and J. Knight	Toward a Formal Model for Component Interfaces for Real-time Systems. H. Dang Van
12.30 - 14.30	<b>Lunch and Handbook meeting (*)</b>	<b>Lunch and Handbook meeting (*)</b>
14.30 - 15.00	Solving Scheduling Problems by Untimed Model Checking - The Clinical Chemical Analyser case study. A. Wijs, J. van de Pol and E. Bortnik	An Approach to the Pervasive Formal Specification and Verification of an Automotive System (Status Report). T. In der Rieden and S. Knapp
15.00 - 15.30	LearnLib: A Library for Automata Learning and Experimentation. H. Raffelt, B. Steffen and T. Berg	Requirements of an Integrated Formal Method for Intelligent Swarms. M. Hinchey, C. A. Rouff, J. L. Rash, W. F. Truszkowski
15.30 - 16.00	Developing Critical Systems with PLD Components. A. J. Hilton and J. Hall	Instantiating Generic Charts for Railway Interlocking Systems. M. Banci and A. Fantechi
16.00 - 16.30	<b>Coffee</b>	<b>Coffee</b>
16.30 - 18.30	FMICS WG meeting	<b>Special Event:</b> Ten Commandments Revisited. J. P. Bowen, LSB University & M. G. Hinchey, Nasa GSF center

(\*) Meeting only for those involved in the FMICS Working Group Handbook project.

**Monday, September 5**

8.00 – 8.45      Registration

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8.45 – 9.00      Opening

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9.00 – 10.00    **KEYNOTE**  
**Invited Talk**  
**The Experience of ATX with the Application of Formal/rigorous**  
**Techniques and Methods in Real Projects.**  
Luis Andrades, ATX Software

10.00 – 10.30   **SESSION 1**  
**Model Checking Software with Well-defined APIs: the Socket Case.**  
P. de la Camara, M. del Mar Gallardo, P. Merino, D. Sanan

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10.30 – 11.00   **COFFEE**

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11.00 – 12.30   **SESSION 1 (cont'd)**  
**Flush : A System Development Tool Based on Scade/Lustre.**  
J. J. Mikáč and P. Caspi  
**Structural Coverage Criteria for Lustre Programs.**  
A. Lakehal and I. Parissis  
**Echo: A Practical Approach to Formal Verification.**  
E. Strunk, X. Yin and J. Knight

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12.30 – 14.30   **LUNCH and HANDBOOK meeting (\*)**

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14.30 – 16.00   **SESSION 2**  
**Solving Scheduling Problems by Untimed Model Checking -**  
**The Clinical Chemical Analyser case study.**  
A. Wijs, J. van de Pol and E. Bortnik  
**LearnLib: A Library for Automata Learning and Experimentation.**  
H. Raffelt. B. Steffen and T. Berg  
**Developing Critical Systems with PLD Components.**  
A. J. Hilton and J. Hall

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16.00 – 18.30   **FMICS Working Group Meeting**

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## Tuesday, September 6

8.00 – 9.00	Registration
9.00 – 10.00	KEYNOTE <b>Invited Talk</b> <b>Quantitative Analysis of Distributed Randomized Protocols.</b> Christel Baier, University of Bonn
10.00 – 10.30	SESSION 3 <b>On-the-Fly State Space Reductions for Weak Equivalences.</b> R. Mateescu
10.30 – 11.00	COFFEE
11.00 – 12.30	SESSION 3 (cont'd) <b>Invariants Come from Templates.</b> J. Helin and P. Kellomäki <b>Enhancing Random Walk State Space Exploration.</b> R. Pelánek, T. Hanzl, I. Černá and L. Brim <b>Toward a Formal Model for Component Interfaces for Real-time Systems.</b> H. Dang Van
12.30 – 14.30	LUNCH and HANDBOOK meeting (*)
14.30 – 16.00	SESSION 4 <b>An Approach to the Pervasive Formal Specification and Verification</b> T. In der Rieden and S. Knapp <b>Requirements of an Integrated Formal Method for Intelligent Swarms.</b> M. Hinchey, C. A. Rouff, J. L. Rash, W. F. Truszkowski <b>Instantiating Generic Charts for Railway Interlocking Systems.</b> M. Banci and A. Fantechi
16.00 – 18.30	SPECIAL EVENT <b>Ten Commandments Revisited – A Ten-Year Perspective on the Industrial Application of Formal Methods.</b> J. P. Bowen, LSB University & M. G. Hinchey, Nasa GSF center

(\*) Meeting only for those involved in the FMICS Working Group Handbook project.