

# AI techniques in healthcare: evidence-based guidelines and protocols

Schedule 29 August 2006

## **8.55 - 9.00 Opening**

**9.00 - 10.00** Formal methods (3x 20 min presentation)

- SPIN Model Checking for the Verification of Clinical Guidelines  
*P. Terenziani, L. Giordano, A. Bottrighi, S. Montani, L. Donzella*
- Temporal Dimension of Medical Guidelines: The Semantics of Asbru Time Annotations  
*J. Schmitt, W. Reif, A. Seyfang, S. Miksch*
- A Constraint-based Approach to Medical Guidelines and Protocols  
*A. Hommersom, P. Groot, P. Lucas, M. Marcos, B. Martinez-Salvador*

## **10.00 - 10.30 Break**

**10.30 - 11.00** Ontologies (3x 10 min presentation)

- A Multiple-Ontology Template-Based Query Interface for a Clinical-Guidelines Search Engine  
*R. Moskovitch, T. Lavie, A. Leibowitz, Y. Denekump, Y. Shahar*
- The Importance of Creating an Ontology-Specific Consensus Before a Markup-Based Specification of Clinical Guidelines  
*E. Shalom, Y. Shahar, E. Lunenfeld, M. Taieb-Maimon, O. Young, G. Bar, S. Martins, L. Vaszar, Y. Liel, A. Yarkoni, M. Goldstein, A. Leibowitz, T. Marom*
- A study of applying knowledge modelling to evidence-based guidelines  
*M. Taboada, J. Des, D. Martinez, J. Mira*

**11.00 - 12.00** (3x 20 min presentation)

- Adaptation of Practice Guidelines for Clinical Decision Support: A Case Study of Diabetic Foot Care  
*M. Peleg, D. Wang, A. Fodor, S. Keren, E. Karnieli*
- Medical Guidelines for the Patient: Introducing the Life Assistance Protocols  
*D. Dominguez, T. Meneu, J. Mocholi, R. Serafin*
- Impact of a computerised decision support system on compliance with evidence-based guidelines for triple assessment  
*V. Patkar, C. Hurt, R. Steele, A. Purushotham, S. Love, M. Williams, R. Thomsona, J. Fox*

**12.00 - 12.30** (3x 10 min presentation)

- Electronic contributions to the use of nominal group techniques in guidelines development  
*V. Pittet, B. Burnand, J. Vader*
- Model-based guideline development for symptom-based indications  
*Y. O*
- Applying intention-based guidelines for critiquing  
*R. Sips, L. Braun, N. Roos*

**12.30 - 14.00 Lunch**

**14.00 - 14.40** (2x 20 min presentation)

- Testing Guidelines Conformance by translating a Graphical Language to Computational Logic  
*F. Chesani, A. Ciampolini, P. Mello, M. Montali, S. Storari*
- Improving the Execution of Clinical Guidelines and Temporal Data Abstraction in High-Frequency Domains  
*P. Votruba, A. Seyfang, M. Paesold, S. Miksch*

**14.40 - 15.00** (2x 10 min presentation)

- A Workflow Approach towards GLIF Execution  
*M. Sedlmayr, T. Rose, R. Rohrig, M. Meister*
- Empirical Grounding of Guideline Implementation in Cooperative Clinical Care Situations  
*I.Sorby, O. Nytro, T.Rost*

**15.00 - 15.20** (3 min demo presentations)

- PROforma guidelines and care pathways: performance in trials and future plans  
*J. Fox, V. Patkar, R. Thomson, E. Black*
- Demonstration of DeGeL: A Clinical-Guidelines Library and Automated Guideline-Support Tools  
*A. Hatsek, O. Young, E. Shalom, Y. Shahar*
- Applying Artificial Intelligence to Clinical Guidelines: the GLARE Approach  
*P. Terenziani, S. Montani, A. Bottrighi, G. Molino, M. Torchio*
- Oncoline: an Online Database for Consultation of Cancer Clinical Practice Guidelines  
*S. Kersten, J. van den Bogert*
- Developing an Evidence Based Medicine Decision Support System Integrated with EPRs Utilizing Standard Data Elements  
*J. Komulainen, I. Kunnamo, P. Nyberg, M. Kaila, T. Mantyranta, M. Korhonen*
- P-Course: Medical Applications of Bayesian Classification with Informative Priors  
*J. Lahtinen, P. Myllymaki, O. Ryyanen*
- Verification of Medical Guidelines with KIV  
*M. Balseer, J. Schmitt, W. Reif*

**15.20 - 16.30 Demo & Break**

**16.30 - 17.00 Wrap-up**