

## ***Workshop on Machine Learning in Health Care Applications, 9 July 2008***

Organizers: Milos Hauskrecht, Csaba Szepesvari and Dale Schuurmans

University of Helsinki, Main building, Fabianinkatu 33

Room: S5, 3rd floor

- 9:00-9:50      Invited Talk: *Methods and tools for mining multivariate temporal data in clinical and research applications*  
                  Riccardo Bellazzi
- 9:50-10:10     *Machine learning techniques in intensive care monitoring*  
                  Wiebke Sieben, Karen Schettlinger, Silvia Kuhls, Michael Imhoff, Ursula Gather
- 10:10-10:30    *Probabilistic modeling of sensor artifacts in critical care*  
                  Norm Aleks, Stuart Russell, Michael G. Madden, Diane Morabito, Geoffrey Manley,  
                  Kristan Staudenmayer, Mitchell Cohen
- 10:30-11:00    Coffee break
- 11:00-11:20    *Machine Learning to Automate the Assignment of Diagnosis Codes to Free-text Radiology Reports: a Method Description*  
                  Hanna Suominen, Filip Ginter, Sampo Pyysalo, Antti Airola, Tapio Pahikkal,  
                  Sanna Salanter, Tapio Salakoski
- 11:20-11:40    *Conditional anomaly detection methods for patient-management alert systems*  
                  Michal Valko, Gregory Cooper, Melissa Saul, Amy Seybert, Shyam Visweswaran,  
                  Milos Hauskrecht
- 11:40-12:00    *Bayesian Modelling of Multi-View Mammography*  
                  Nivea Ferreira, Marina Velikova, Peter Lucas
- 12:00-12:20    *Facilitating Clinico-Genomic Knowledge Discovery by Automatic Selection of KDD Processes*  
                  Natalja Punko, Stefan Räuping
- 12:20-14:30    Lunch
- 14:30-15:20    Invited Talk: *Machine Learning for in vivo Central Nervous System (CNS) Drug Discovery*  
                  Jeff Schneider
- 15:20-15:40    *Identifying Active Compounds from Chinese Medicinal Plants via Causal Variable Selection*  
                  Xuewei Wang
- 15:40-16:00    *Optimizing Treatment Strategies for Epilepsy Using Reinforcement Learning*  
                  Joelle Pineau, Arthur Guez, Robert D. Vincent, Massimo Avoli
- 16:00-16:30    Coffee break
- 16:30-18:00    Poster session

For last minute information, papers, etc., see:  
<http://rlai.cs.ualberta.ca/openpages2/MLHealth>

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