Monday

9.00 - 10.30

Introduction to the seminar

Introduction to the participants (2 min each)

10.30 - 11.00 Coffee

11.00 - 11.30

Reserve Slot

11.30 - 12.00

Toby Walsh: Correlation Constraints and their application to Security Games and Rank Aggregation (has to be on Monday)

Lunch

13.45 - 18.00 **Frameworks/languages (**Coordinated by Luc De Raedt)

Benjamin Negrevergne/Tias Guns/Siegfried Nijssen: Relational CP

Marc Denecker: Constraint solving with extensions of classical logic

Francesca Rossi: probabilistic CP_nets

Vijay A. Saraswat: Timed, Probabilistic (concurrent) constraint programming

Randy Goebel. Classes of constraints within a high level model of constraint optimization.

Tuesday

9.00 - 12.00 **Algorithm Configuration** (Coordinated by Barry O'Sullivan)

Holger Hoos: Analysing and Automatically Optimising the Empirical Scaling of Algorithm Performance

Lars Kotthoff: algorithm selection benchmark data set at http://aslib.net.

Frank Hutter: Modelling and Optimization of Empirical Algorithm Performance

Alan Frisch : *further discussion on this*

Lunch

13.45 - 18.00 **Constraints in pattern mining (**Coordinated by Siegfried)

Tias Guns: MiningZinc; can also be seen as a framework.

Jean-Francois Boulicaut: Constraint-based mining and expert

models: preliminary ideas

Bruno Cremilleux: On Preference-based (soft) pattern sets

Lakhdar Sais: Building bridges between data mining and constraint programming

Thi-Bich-Hanh Dao, Christel Vrain: Distance-Based Constrained clustering by Constraint programming

Luc De Raedt, Constraint-based queries for Bayesian networks

Wednesday

9.00 - 9.30 **Application**

Yuzuru Tanaka: Exploratory Visual Analytics of Big Data from Complex Sysytem of Systems such as Personalized Medicine and Urban-Scale Winter Road Management

9.30-12.00 **Learning Constraints** (Coordinated by Michele)

Michele Sebag. Estimating the value of (sets of) constraints

Andrea Passerini. Structured learning modulo theories

Arno Siebes: Constraints to Specify Data

Lunch

Afternoon : excursion

Thursday

9.00 -9.30 **Application**

Ken Brown: Learning and optimising in home energy management

9.30-12.00 **Machine learning** (Coordinated by Barry)

James Cussens: demo for BN learning software GOBNILP

Kristian Kersting: Relational Linear Programming

Ian Davidson*:* New and emerging uses of constraints in transfer and active learning.

Hendrik Blockeel *:* Declarative modeling

Lunch

13.45 - 15.30

Big Data (Barry)

Human in the Loop / Learning and optimisation (Michele)

16.00 - 17.45

Modelling languages (Ian and Luc)

Meta-algorithmic Issues (Holger)

19.00 - 20.00 Killer Apps and Challenges (Barry)

Friday

9.00 - 12.00

Demo's

Summary Session