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Luc De Raedt (Ed.)

Inductive Logic Programming

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Revised Papers



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Preface

The ILP conference series has been the premier forum for work on logic-based approaches to machine learning for almost two decades. The 19th International Conference on Inductive Logic Programming, which was organized in Leuven, July 2-4, 2009, continued this tradition but also reached out to other communities as it was colocated with SRL-2009 – the International Workshop on Statistical Relational Learning, and MLG-2009 – the 7th International Workshop on Mining and Learning with Graphs. While these three series of events each have their own focus, emphasis and tradition, they essentially share the problem that is studied: learning about structured data in the form of graphs, relational descriptions or logic. The colocation of the events was intended to increase the interaction between the three communities.

There was a single program with joint invited and tutorial speakers, a panel, regular talks and poster sessions. The invited speakers and tutorial speakers were James Cussens, Jason Eisner, Jure Leskovec, Raymond Mooney, Scott Sanner, and Philip Yu. The panel featured Karsten Borgwardt, Luc De Raedt, Pedro Domingos, Paolo Frasconi, Thomas Gärtner, Kristian Kersting, Stephen Muggleton, and C. David Page. Video-recordings of these talks can be found at www.videolectures.net. The overall program featured 30 talks presented in two parallel tracks and 53 posters. The talks and posters were selected on the basis of an extended abstract. These abstracts can be found at <http://dtai.cs.kuleuven.be/ilp-mlg-srl/>. In addition, as in previous years, a selection of the papers of ILP 2009 have been published in a volume in the *Lectures Notes in Artificial Intelligence* series and in a special issue of the *Machine Learning Journal*. From the initial 54 extended abstracts (6 pages in LNCS format) that were submitted to ILP-2009, 5 papers were invited for the special issue, 10 papers were published as a long paper and 14 more as a short paper in the proceedings. These papers were prepared after the conference. Many of the other abstracts were accepted for poster presentation.

This event would not have been possible without the help of a large number of people: I would especially like to thank Bernhard Pfahringer for suggesting this colocation, the invited and tutorial speakers, the panelists, the Chairs of MLG (Hendrik Blockeel, Karsten Borgwardt and Xifeng Yan) and SRL (Pedro Domingos and Kristian Kersting), Filip Železný for handling the Leuven papers, the Program Committee, the additional reviewers, the authors that submitted papers, the participants, the videolectures organization, and the extensive local organizing team (listed herein) as well as the sponsors (the BNVKI – the Benelux Association for Artificial Intelligence, Pascal 2 – the Network of Excellence, FWO – the Research Foundation Flanders) for their financial support. In preparing

this volume, the support of Jan Struyf (who managed Easychair) and Laura Antanas (who managed the proceedings) was essential.

February 2010

Luc De Raedt

Organization

ILP-SRL-ML 2009 was organized by the Department of Computer Science,
Katholieke Universiteit Leuven, Belgium.

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PASCAL2, the Network of Excellence for Statistical Modelling and Computational Learning

FWO, Research Foundation Flanders, through its Networks “Declarative Methods in Computer Science” and “Machine Learning for Data Mining and its Applications”

Table of Contents

Knowledge-Directed Theory Revision	1
<i>Kamal Ali, Kevin Leung, Tolga Könik, Dongkyu Choi, and Dan Shapiro</i>	
Towards Clausal Discovery for Stream Mining	9
<i>Anton Dries and Luc De Raedt</i>	
On the Relationship between Logical Bayesian Networks and Probabilistic Logic Programming Based on the Distribution Semantics	17
<i>Daan Fierens</i>	
Induction of Relational Algebra Expressions	25
<i>Joris J.M. Gillis and Jan Van den Bussche</i>	
A Logic-Based Approach to Relation Extraction from Texts	34
<i>Tamás Horváth, Gerhard Paass, Frank Reichartz, and Stefan Wrobel</i>	
Discovering Rules by Meta-level Abduction	49
<i>Katsumi Inoue, Koichi Furukawa, Ikuo Kobayashi, and Hidetomo Nabeshima</i>	
Inductive Generalization of Analytically Learned Goal Hierarchies	65
<i>Tolga Könik, Negin Nejati, and Ugur Kuter</i>	
Ideal Downward Refinement in the \mathcal{EL} Description Logic	73
<i>Jens Lehmann and Christoph Haase</i>	
Nonmonotonic Onto-Relational Learning	88
<i>Francesca A. Lisi and Floriana Esposito</i>	
CP-Logic Theory Inference with Contextual Variable Elimination and Comparison to BDD Based Inference Methods	96
<i>Wannes Meert, Jan Struyf, and Hendrik Blockeel</i>	
Speeding Up Inference in Statistical Relational Learning by Clustering Similar Query Literals	110
<i>Lilyana Mihalkova and Matthew Richardson</i>	
Chess Revision: Acquiring the Rules of Chess Variants through FOL Theory Revision from Examples	123
<i>Stephen Muggleton, Aline Paes, Vitor Santos Costa, and Gerson Zaverucha</i>	

ProGolem: A System Based on Relative Minimal Generalisation	131
<i>Stephen Muggleton, José Santos, and Alireza Tamaddoni-Nezhad</i>	
An Inductive Logic Programming Approach to Validate Hexose Binding Biochemical Knowledge	149
<i>Houssam Nassif, Hassan Al-Ali, Sawsan Khuri, Walid Keirouz, and David Page</i>	
Boosting First-Order Clauses for Large, Skewed Data Sets	166
<i>Louis Oliphant, Elizabeth Burnside, and Jude Shavlik</i>	
Incorporating Linguistic Expertise Using ILP for Named Entity Recognition in Data Hungry Indian Languages.....	178
<i>Anup Patel, Ganesh Ramakrishnan, and Pushpak Bhattacharya</i>	
Transfer Learning via Relational Templates	186
<i>Scott Proper and Prasad Tadepalli</i>	
Automatic Revision of Metabolic Networks through Logical Analysis of Experimental Data	194
<i>Oliver Ray, Ken Whelan, and Ross King</i>	
Finding Relational Associations in HIV Resistance Mutation Data	202
<i>Lothar Richter, Regina Augustin, and Stefan Kramer</i>	
ILP, the Blind, and the Elephant: Euclidean Embedding of Co-proven Queries	209
<i>Hannes Schulz, Kristian Kersting, and Andreas Karwath</i>	
Parameter Screening and Optimisation for ILP Using Designed Experiments.....	217
<i>Ashwin Srinivasan and Ganesh Ramakrishnan</i>	
Don't Fear Optimality: Sampling for Probabilistic-Logic Sequence Models	226
<i>Ingo Thon</i>	
Policy Transfer via Markov Logic Networks.....	234
<i>Lisa Torrey and Jude Shavlik</i>	
Can ILP Be Applied to Large Datasets?	249
<i>Hiroaki Watanabe and Stephen Muggleton</i>	
Author Index	257