

Table of Contents

On the dynamics of default reasoning <i>Grigoris Antoniou</i>	1
Non-monotonic and paraconsistent reasoning: From basic entailments to plausible relations <i>Ofer Arieli and Arnon Avron</i>	11
A comparison of systematic and local search algorithms for regular CNF formulas <i>Ramón Béjar and Felip Manyà</i>	22
Query-answering in prioritized default logic <i>Farid Benhammedi, Pascal Nicolas and Torsten Schaub</i>	32
Updating directed belief networks <i>Boutheina Ben Yaghlane and Khaled Mellouli</i>	43
Inferring causal explanations <i>Philippe Besnard and Marie-Odile Cordier</i>	55
A critique of inductive causation <i>Christian Borgelt and Rudolf Kruse</i>	68
Connecting lexicographic with maximum entropy entailment <i>Rachel A. Bourne and Simon Parsons</i>	80
Avoiding non-ground variables <i>Stefan Brüning and Torsten Schaub</i>	92
Anchoring symbols to vision data by fuzzy logic <i>Silvia Coradeschi and Alessandro Saffiotti</i>	104
Filtering vs revision and update: Let us debate! <i>Corine Cossart and Catherine Tessier</i>	116
Irrelevance and independence axioms in quasi-Bayesian theory <i>Fabio G. Cozman</i>	128
Assessing the value of a candidate: A qualitative possibilistic approach <i>Didier Dubois, Michel Grabisch and Henri Prade</i>	137

Learning default theories <i>Béatrice Duval and Pascal Nicolas</i>	148
Knowledge representation for inductive learning <i>Peter A. Flach</i>	160
Handling inconsistency efficiently in the incremental construction of stratified belief bases <i>Eric Grégoire</i>	168
Rough knowledge discovery and applications <i>J. W. Guan and D. A. Bell</i>	179
Gradient descent training of Bayesian networks <i>Finn V. Jensen</i>	190
Open default theories over closed domains: An extended abstract <i>Michael Kaminski</i>	201
Shopbot economics <i>Jeffrey O. Kephart and Amy R. Greenwald</i>	208
Optimized algorithm for learning Bayesian network from data <i>Fédia Khalfallah and Khaled Melloui</i>	221
Merging with integrity constraints <i>Sébastien Konieczny and Ramón Pino Pérez</i>	233
Boolean-like interpretation of Sugeno integral <i>Ivan Kramosil</i>	245
An alternative to outward propagation for Dempster-Shafer belief functions <i>Norbert Lehmann and Rolf Haenni</i>	256
On bottom-up pre-processing techniques for automated default reasoning <i>Thomas Linke and Torsten Schaub</i>	268
Probabilistic logic programming under maximum entropy <i>Thomas Lukasiewicz and Gabriele Kern-Isberner</i>	279
Lazy propagation and independence of causal influence <i>Anders L. Madsen and Bruce D'Ambrosio</i>	293

A Monte Carlo algorithm for combining Dempster-Shafer belief based on approximate pre-computation <i>Serafín Moral and Antonio Salmerón</i>	305
An extension of a linguistic negation model allowing us to deny nuanced property combinations <i>Daniel Pacholczyk</i>	316
Argumentation and qualitative decision making <i>Simon Parsons and Shaw Green</i>	328
Handling different forms of uncertainty in regression analysis: A fuzzy belief structure approach <i>Simon Petit-Renaud and Thierry Denœux</i>	340
State recognition in discrete dynamical systems using Petri nets and evidence theory <i>Michèle Rombaut, Iman Jarkass and Thierry Denœux</i>	352
Robot navigation and map building with the event calculus <i>Murray Shanahan and Mark Witkowski</i>	362
Information fusion in the context of stock index prediction <i>Stefan Siekmann, Jörg Gebhardt and Rudolf Kruse</i>	363
Defeasible goals <i>Leendert van der Torre</i>	374
Logical deduction using the local computation framework <i>Nic Wilson and Jérôme Mengin</i>	386
Author Index	397