

2013 AIJ Prominent Paper Award Paper List (2008-2013, 366 papers)

Artificial Intelligence, Volume 172

Volume 172, Number 1, January 2008

Sarit Kraus, Penina Hoz-Weiss, Jonathan Wilkenfeld, David R. Andersen, Amy Pate:
Resolving crises through automated bilateral negotiations. 1-18

Ulrich Rückert, Luc De Raedt:
An experimental evaluation of simplicity in rule learning. 19-28

Christian Bessiere, Romuald Debruyne:
Theoretical analysis of singleton arc consistency and its extensions. 29-41

Jim Q. Smith, Paul E. Anderson:
Conditional independence and chain event graphs. 42-68

Volume 172, Numbers 2-3, February 2008

Alistair Knott, Peter Vlugter:
Multi-agent human-machine dialogue: issues in dialogue management and referring expression semantics. 69-102

Rune M. Jensen, Manuela M. Veloso, Randal E. Bryant:
State-set branching: Leveraging BDDs for heuristic search. 103-139

Kathryn B. Laskey:
MEBN: A language for first-order Bayesian knowledge bases. 140-178

Sung-Soon Choi, Kyomin Jung, Jeong Han Kim:
Phase transition in a random NK landscape model. 179-203

Javier Larrosa, Federico Heras, Simon de Givry:
A logical approach to efficient Max-SAT solving. 204-233

Thierry Denoeux:
Conjunctive and disjunctive combination of belief functions induced by nondistinct bodies of evidence. 234-264

Paolo Liberatore:
Redundancy in logic II: 2CNF and Horn propositional formulae. 265-299

Sargur N. Srihari, Jim Collins, Rohini K. Srihari, Harish Srinivasan, Shravya Shetty, Janina Brutt-Griffler:
Automatic scoring of short handwritten essays in reading comprehension tests. 300-324

Ronen I. Brafman, Carmel Domshlak:
Graphically structured value-function compilation. 325-349

Volume 172, Numbers 4-5, March 2008

Ralf Gerber, Hans-Hellmut Nagel:
Representation of occurrences for road vehicle traffic. 351-391

Benoit Morisset, Malik Ghallab:
Learning how to combine sensory-motor functions into a robust behavior. 392-412

Greg Barish, Craig A. Knoblock:
Speculative plan execution for information gathering. 413-453

André da Motta Salles Barreto, Charles W. Anderson:
Restricted gradient-descent algorithm for value-function approximation in reinforcement learning. 454-482

Tim Van Allen, Ajit Singh, Russell Greiner, Peter Hooper:
Quantifying the uncertainty of a belief net response: Bayesian error-bars for belief net inference. 483-513

Uzi Zahavi, Ariel Felner, Robert C. Holte, Jonathan Schaeffer:
Duality in permutation state spaces and the dual search algorithm. 514-540

David Sarne, Sarit Kraus:
Managing parallel inquiries in agents' two-sided search. 541-569

Michael Freund:
On the notion of concept I. 570-590

Peter Baumgartner, Cesare Tinelli:
The model evolution calculus as a first-order DPLL method. 591-632

Volume 172, Numbers 6-7, April 2008

Avi Rosenfeld, Gal A. Kaminka, Sarit Kraus, Onn Shehory:
A study of mechanisms for improving robotic group performance. 633-655

Erica Melis, Andreas Meier, Jörg H. Siekmann:
Proof planning with multiple strategies. 656-684

Daniel Bryce, Subbarao Kambhampati, David E. Smith:
Sequential Monte Carlo in reachability heuristics for probabilistic planning. 685-715

Andrea Lockerd Thomaz, Cynthia Breazeal:
Teachable robots: Understanding human teaching behavior to build more effective robot learners. 716-737

Ian P. Gent, Peter Nightingale, Andrew G. D. Rowley, Kostas Stergiou:
Solving quantified constraint satisfaction problems. 738-771

Mark Chavira, Adnan Darwiche:
On probabilistic inference by weighted model counting. 772-799

Christian Bessiere, Kostas Stergiou, Toby Walsh:
Domain filtering consistencies for non-binary constraints. 800-822

Raz Lin, Sarit Kraus, Jonathan Wilkenfeld, James Barry:
Negotiating with bounded rational agents in environments with incomplete information using an automated agent. 823-851

Thomas Lukasiewicz:
Expressive probabilistic description logics. 852-883

Megan M. Olsen, N. Siegelmann-Danieli, Hava T. Siegelmann:
Robust artificial life via artificial programmed death. 884-898

Volume 172, Numbers 8-9, May 2008

Alfonso Gerevini, Alessandro Saetti, Ivan Serina:
An approach to efficient planning with numerical fluents and multi-criteria plan quality. 899-944

Di Wu, Xenofon D. Koutsoukos:
Reachability analysis of uncertain systems using bounded-parameter Markov decision processes. 945-954

Ole J. Mengshoel:
Understanding the role of noise in stochastic local search: Analysis and experiments. 955-990

Jérôme Lang, Pierre Marquis:
On propositional definability. 991-1017

Laurent Garcia, Régis Sabbadin:
Complexity results and algorithms for possibilistic influence diagrams. 1018-1044

Michael L. Anderson, Walid E. Gomaa, John Grant, Donald Perlis:
Active logic semantics for a single agent in a static world. 1045-1063

John Grant, Anthony Hunter:
Analysing inconsistent first-order knowledgebases. 1064-1093

Martin J. Green, David A. Cohen:
Domain permutation reduction for constraint satisfaction problems. 1094-1118

Nicola Gatti, Francesco Di Giunta, Stefano Marino:
Alternating-offers bargaining with one-sided uncertain deadlines: an efficient algorithm. 1119-1157

Steven Schockaert, Martine De Cock:
Temporal reasoning about fuzzy intervals. 1158-1193

Volume 172, Number 10, June 2008

Matthias Hild, Wolfgang Spohn:
The measurement of ranks and the laws of iterated contraction. 1195-1218

Kees van Deemter, Brigitte Krenn, Paul Piwek, Martin Klesen, Marc Schröder, Stefan Baumann:
Fully generated scripted dialogue for embodied agents. 1219-1244

Gustav Nordh, Bruno Zanuttini:
What makes propositional abduction tractable. 1245-1284

Chris Mellish, Jeff Z. Pan:
Natural language directed inference from ontologies. 1285-1315

Volume 172, Number 11, July 2008

Paolo Liberatore:
Redundancy in logic III: Non-monotonic reasoning. 1317-1359

Jürg Kohlas, Nic Wilson:
Semiring induced valuation algebras: Exact and approximate local computation algorithms. 1360-1399

Gert de Cooman, Filip Hermans:
Imprecise probability trees: Bridging two theories of imprecise probability. 1400-1427

Volume 172, Numbers 12-13, August 2008

Chitta Baral, Thomas Eiter, Marcus Bjärelund, Mutsumi Nakamura:
Maintenance goals of agents in a dynamic environment: Formulation and policy construction. 1429-1469

Silja Renooij, Linda C. van der Gaag:
Enhanced qualitative probabilistic networks for resolving trade-offs. 1470-1494

Thomas Eiter, Giovambattista Ianni, Thomas Lukasiewicz, Roman Schindlauer, Hans Tompits:
Combining answer set programming with description logics for the Semantic Web. 1495-1539

Ernest Davis:
Pouring liquids: A study in commonsense physical reasoning. 1540-1578

Blai Bonet, Hector Geffner:
Heuristics for planning with penalties and rewards formulated in logic and computed through circuits. 1579-1604

Yuanlin Zhang, Eugene C. Freuder:
Properties of tree convex constraints. 1605-1612

Volume 172, Number 14, September 2008

Maxim Likhachev, Dave Ferguson, Geoffrey J. Gordon, Anthony Stentz, Sebastian Thrun:
Anytime search in dynamic graphs. 1613-1643

Thomas Eiter, Kewen Wang:
Semantic forgetting in answer set programming. 1644-1672

S. Shaheen Fatima, Michael Wooldridge, Nicholas R. Jennings:
A linear approximation method for the Shapley value. 1673-1699

Perukrishnen Vytelingum, Dave Cliff, Nicholas R. Jennings:
Strategic bidding in continuous double auctions. 1700-1729

Volume 172, Number 15, October 2008

Yaxin Bi, Jiwen Guan, David A. Bell:
The combination of multiple classifiers using an evidential reasoning approach. 1731-1751

Duc Nghia Pham, John Thornton, Abdul Sattar:
Modelling and solving temporal reasoning as propositional satisfiability. 1752-1782

Ryan Porter, Amir Ronen, Yoav Shoham, Moshe Tennenholtz:
Fault tolerant mechanism design. 1783-1799

Denver Dash, Marek J. Druzdzel:
A note on the correctness of the causal ordering algorithm. 1800-1808

Yang Yu, Zhi-Hua Zhou:
A new approach to estimating the expected first hitting time of evolutionary algorithms. 1809-1832

Erratum
Piero A. Bonatti:
Erratum to: Reasoning with infinite stable models [Artificial Intelligence 156 (1) (2004) 75-111]. 1833-1835

Volume 172, Numbers 16-17, November 2008

Fabrizio Angiulli, Rachel Ben-Eliyahu-Zohary, Luigi Palopoli:

Outlier detection using default reasoning. 1837-1872

Jiji Zhang:

On the completeness of orientation rules for causal discovery in the presence of latent confounders and selection bias. 1873-1896

Eyke Hüllermeier, Johannes Fürnkranz, Weiwei Cheng, Klaus Brinker:
Label ranking by learning pairwise preferences. 1897-1916

Aviv Zohar, Jeffrey S. Rosenschein:
Mechanisms for information elicitation. 1917-1939

Volume 172, Number 18, December 2008

Don Perlis, Mary-Anne Williams:
Editorial. 1943

Margaret A. Boden:
Odd man out: Reply to reviewers. 1944-1964

Erik Sandewall:
A review of the Handbook of Knowledge Representation. 1965-1966

Christopher Stanton, Mary-Anne Williams:
, Robotics: State of the Art and Future Challenges , Imperial College Press (2008).
1967-1972

Ian P. Gent, Ian Miguel, Peter Nightingale:
Generalised arc consistency for the AllDifferent constraint: An empirical survey.
1973-2000

John McCarthy:
The well-designed child. 2003-2014

Aaron Sloman:
The well-designed young mathematician. 2015-2034

Artificial Intelligence, Volume 173

Volume 173, Number 1, January 2009

Andrew Coles, Maria Fox, Keith Halsey, Derek Long, Amanda Smith:
Managing concurrency in temporal planning using planner-scheduler interaction. 1-44

Thomas Ågotnes, Wiebe van der Hoek, Michael Wooldridge:
Reasoning about coalitional games. 45-79

Rui Prada, Ana Paiva:
Teaming up humans with autonomous synthetic characters. 80-103

Enrique Miranda, Marco Zaffalon:
Coherence graphs. 104-144

Kevin Gold, Marek W. Doniec, Christopher Crick, Brian Scassellati:
Robotic vocabulary building using extension inference and implicit contrast. 145-166

Michael Freund:
On the notion of concept II. 167-179

Dov Monderer, Moshe Tennenholtz:

Strong mediated equilibrium. 180-195

Volume 173, Number 2, February 2009

James Fan, Ken Barker, Bruce W. Porter:
Automatic interpretation of loosely encoded input. 197-220

Felix Brandt, Felix A. Fischer, Paul Harrenstein, Yoav Shoham:
Ranking games. 221-239

Yuren Zhou, Jun He, Qing Nie:
A comparative runtime analysis of heuristic algorithms for satisfiability problems.
240-257

Steven Schockaert, Martine De Cock, Etienne E. Kerre:
Spatial reasoning in a fuzzy region connection calculus. 258-298

Alan M. Frisch, Brahim Hnich, Zeynep Kiziltan, Ian Miguel, Toby Walsh:
Filtering algorithms for the multiset ordering constraint. 299-328

Hannah M. Dee, David C. Hogg:
Navigational strategies in behaviour modelling. 329-342

Sylvain Bouveret, Michel Lemaitre:
Computing leximin-optimal solutions in constraint networks. 343-364

Yixin Chen, Ruoyun Huang, Zhao Xing, Weixiong Zhang:
Long-distance mutual exclusion for planning. 365-391

Michael Zuckerman, Ariel D. Procaccia, Jeffrey S. Rosenschein:
Algorithms for the coalitional manipulation problem. 392-412

Volume 173, Numbers 3-4, March 2009

Leila Amgoud, Henri Prade:
Using arguments for making and explaining decisions. 413-436

Yingqian Zhang, Efrat Manisterski, Sarit Kraus, V. S. Subrahmanian, David Peleg:
Computing the fault tolerance of multi-agent deployment. 437-465

Tom Froese, Tom Ziemke:
Enactive artificial intelligence: Investigating the systemic organization of life and
mind. 466-500

Volume 173, Numbers 5-6, April 2009

Maria Fox, Sylvie Thiébaux:
Advances in automated plan generation. 501-502

Malte Helmert:
Concise finite-domain representations for PDDL planning tasks. 503-535

Mark Roberts, Adele E. Howe:
Learning from planner performance. 536-561

J. Benton, Minh Binh Do, Subbarao Kambhampati:
Anytime heuristic search for partial satisfaction planning. 562-592

Jorge A. Baier, Fahiem Bacchus, Sheila A. McIlraith:
A heuristic search approach to planning with temporally extended preferences. 593-618

Alfonso Gerevini, Patrik Haslum, Derek Long, Alessandro Saetti, Yannis Dimopoulos:
Deterministic planning in the fifth international planning competition: PDDL3 and
experimental evaluation of the planners. 619-668

Ugur Kuter, Dana S. Nau, Marco Pistore, Paolo Traverso:
Task decomposition on abstract states, for planning under nondeterminism. 669-695

Maxim Likhachev, Anthony Stentz:
Probabilistic planning with clear preferences on missing information. 696-721

Olivier Buffet, Douglas Aberdeen:
The factored policy-gradient planner. 722-747

Scott Sanner, Craig Boutilier:
Practical solution techniques for first-order MDPs. 748-788

Volume 173, Numbers 7-8, May 2009

François Portet, Ehud Reiter, Albert Gatt, Jim Hunter, Somayajulu Sripada, Yvonne Freer,
Cindy Sykes:
Automatic generation of textual summaries from neonatal intensive care data. 789-816

Liang-Chih Yu, Chung-Hsien Wu, Fong-Lin Jang:
Psychiatric document retrieval using a discourse-aware model. 817-829

Thi V. Duong, Dinh Q. Phung, Hung Hai Bui, Svetha Venkatesh:
Efficient duration and hierarchical modeling for human activity recognition. 830-856

Gianluca Baldassarre, Stefano Nolfi:
Strengths and synergies of evolved and designed controllers: A study within collective
robotics. 857-875

Adam I. Juda, David C. Parkes:
An options-based solution to the sequential auction problem. 876-899

Volume 173, Numbers 9-10, June 2009

Sanjay Modgil:
Reasoning about preferences in argumentation frameworks. 901-934

Nishan C. Karunatilake, Nicholas R. Jennings, Iyad Rahwan, Peter McBurney:
Dialogue games that agents play within a society. 935-981

Francesco Belardinelli, Alessio Lomuscio:
Quantified epistemic logics for reasoning about knowledge in multi-agent systems. 982-1013

Raquel Ros, Josep Lluís Arcos, Ramon López de Mántaras, Manuela M. Veloso:
A case-based approach for coordinated action selection in robot soccer. 1014-1039

Volume 173, Number 11, July 2009

Pingzhong Tang, Fangzhen Lin:
Computer-aided proofs of Arrow's and other impossibility theorems. 1041-1053

Christian Bessiere, Emmanuel Hebrard, Brahim Hnich, Zeynep Kiziltan, Toby Walsh:
Range and Roots: Two common patterns for specifying and propagating counting and
occurrence constraints. 1054-1078

Gilles Chabert, Luc Jaulin:

Contractor programming. 1079-1100

Christopher W. Geib, Robert P. Goldman:

A probabilistic plan recognition algorithm based on plan tree grammars. 1101-1132

Volume 173, Numbers 12-13, August 2009

Ariel D. Procaccia, Aviv Zohar, Yoni Peleg, Jeffrey S. Rosenschein:

The learnability of voting rules. 1133-1149

Erez Karpas, Solomon Eyal Shimony, Amos Beimel:

Approximate belief updating in max-2-connected Bayes networks is NP-hard. 1150-1153

Daniel Kayser, Farid Nouioua:

From the textual description of an accident to its causes. 1154-1193

Giacomo Bonanno:

Rational choice and AGM belief revision. 1194-1203

Yuanlin Zhang, Satyanarayana Mariseti:

Solving connected row convex constraints by variable elimination. 1204-1219

Volume 173, Number 14, September 2009

Raffay Hamid, Siddhartha Maddi, Amos Y. Johnson, Aaron F. Bobick, Irfan A. Essa, Charles Lee Isbell Jr.:

A novel sequence representation for unsupervised analysis of human activities. 1221-1244

Aline Deruyver, Yann Hodé, Luc Brun:

Image interpretation with a conceptual graph: Labeling over-segmented images and detection of unexpected objects. 1245-1265

Jean-François Paiement, Samy Bengio, Douglas Eck:

Probabilistic models for melodic prediction. 1266-1274

Boris Motik, Bernardo Cuenca Grau, Ian Horrocks, Ulrike Sattler:

Representing ontologies using description logics, description graphs, and rules. 1275-1309

Rüdiger Ebdt, Rolf Drechsler:

Weighted A* search - unifying view and application. 1310-1342

Yong Gao:

Data reductions, fixed parameter tractability, and random weighted d-CNF satisfiability. 1343-1366

Volume 173, Number 15, October 2009

Konstantine Arkoudas, Selmer Bringsjord:

Vivid: A framework for heterogeneous problem solving. 1367-1405

Philippe Besnard, Anthony Hunter, Stefan Woltran:

Encoding deductive argumentation in quantified Boolean formulae. 1406-1423

Torsten Hahmann, Michael Winter, Michael Gruninger:

Stonian p-ortholattices: A new approach to the mereotopology RT0. 1424-1440

Itai Ashlagi, Dov Monderer, Moshe Tennenholtz:

Two-terminal routing games with unknown active players. 1441-1455

Volume 173, Numbers 16-17, November 2009

Radu Marinescu, Rina Dechter:
AND/OR Branch-and-Bound search for combinatorial optimization in graphical models.
1457-1491

Radu Marinescu, Rina Dechter:
Memory intensive AND/OR search for combinatorial optimization in graphical models.
1492-1524

Yan Zhang, Yi Zhou:
Knowledge forgetting: Properties and applications. 1525-1537

Volume 173, Number 18, December 2009

Jonathan Lawry, Yongchuan Tang:
Uncertainty modelling for vague concepts: A prototype theory approach. 1539-1558

Paul E. Dunne:
The computational complexity of ideal semantics. 1559-1591

Christophe Lecoutre, Lakhdar Sais, Sébastien Tabary, Vincent Vidal:
Reasoning from last conflict(s) in constraint programming. 1592-1614

Matthew Klenk, Kenneth D. Forbus:
Analogical model formulation for transfer learning in AP Physics. 1615-1638

Artificial Intelligence, Volume 174

Volume 174, Number 1, January 2010

Javier Farreres, Karina Gibert, Horacio Rodríguez, Charnyote Pluempitiwiriyawej:
Inference of lexical ontologies. The LeOnI methodology. 1-19

Paul E. Dunne, Sarit Kraus, Efrat Manisterski, Michael Wooldridge:
Solving coalitional resource games. 20-50

Timothy J. Norman, Chris Reed:
A logic of delegation. 51-71

John Grant, Francesco Parisi, Austin Parker, V. S. Subrahmanian:
An AGM-style belief revision mechanism for probabilistic spatio-temporal logics. 72-104

Georg Gottlob, Reinhard Pichler, Fang Wei:
Bounded treewidth as a key to tractability of knowledge representation and reasoning.
105-132

Volume 174, Number 2, February 2010

Editorial

Randy Goebel, Mary-Anne Williams:
The expanding breadth of artificial intelligence research. 133

Book Review

Salem Benferhat:
A book review on Elements of Argumentation. 134-139

Carles Sierra:

Eric R. Kandel, In Search of Memory: The Emergence of a New Science of Mind , W.W. Norton
(2006) 352 pp. 140-142

Thomas Roth-Berghofer:

A review of the textbook Graph-based Knowledge Representation. 143-144

Kevin P. Murphy:

Review of "Probabilistic graphical models" by Koller and Friedman. 145-146

Yang Xiang:

A. Darwiche, Modeling and Reasoning with Bayesian Networks , Cambridge (2009). 147-151

Michael L. Anderson:

Rolf Pfeifer and Josh Bongard, How the Body Shapes the Way We Think: A New View of Intelligence A Bradford Book , MIT Press (2007) ISBN 978-0-262-16239-5 394 pp. 152-154

R. G. Goebel:

William J. Raynor Jr., International Dictionary of Artificial Intelligence (2nd edition), Global Professional Publishing (2009) ISBN 978-0-85297-657-9 242 pp. 155

Field Reviews

Jim Hendler, Tim Berners-Lee:

From the Semantic Web to social machines: A research challenge for AI on the World Wide Web. 156-161

Mingsheng Ying:

Quantum computation, quantum theory and AI. 162-176

The Turing Tapes: Comments and Controversies in AI

Salem Benferhat:

Interventions and belief change in possibilistic graphical models. 177-189

Hai Zhuge:

Interactive semantics. 190-204

Bruce L. McNaughton:

Cortical hierarchies, sleep, and the extraction of knowledge from memory. 205-214

Shun-Zheng Yu:

Hidden semi-Markov models. 215-243

Volume 174, Numbers 3-4, March 2010

Blai Bonet:

Conformant plans and beyond: Principles and complexity. 245-269

Mirco Gelain, Maria Silvia Pini, Francesca Rossi, Kristen Brent Venable, Toby Walsh:

Elicitation strategies for soft constraint problems with missing preferences: Properties, algorithms and experimental studies. 270-294

Lengning Liu, Enrico Pontelli, Tran Cao Son, Mirosław Truszczyński:

Logic programs with abstract constraint atoms: The role of computations. 295-315

Piergiorgio Bertoli, Marco Pistore, Paolo Traverso:

Automated composition of Web services via planning in asynchronous domains. 316-361

Volume 174, Numbers 5-6, April 2010

Mingyu Guo, Vincent Conitzer:

Optimal-in-expectation redistribution mechanisms. 363-381

Gianluigi Greco, Francesco Scarcello:

On the power of structural decompositions of graph-based representations of constraint

problems. 382-409

Cesar García-Osorio, Aida de Haro-García, Nicolás García-Pedrajas:
Democratic instance selection: A linear complexity instance selection algorithm based on classifier ensemble concepts. 410-441

Binghui Liu, Jianhua Guo, Bing-Yi Jing:
A note on minimal d-separation trees for structural learning. 442-448

Volume 174, Numbers 7-8, May 2010

Martin C. Cooper, Simon de Givry, M. Sanchez, Thomas Schiex, Matthias Zytnicki, T. Werner:
Soft arc consistency revisited. 449-478

Thierry Denoeux, Zouflicar Younes, Fahed Abdallah:
Representing uncertainty on set-valued variables using belief functions. 479-499

Michele Lombardi, Michela Milano:
Allocation and scheduling of Conditional Task Graphs. 500-529

David Gianazza:
Forecasting workload and airspace configuration with neural networks and tree search methods. 530-549

Volume 174, Numbers 9-10, June 2010

Sung-Soon Choi, Jeong Han Kim:
Optimal query complexity bounds for finding graphs. 551-569

Martin C. Cooper, Peter G. Jeavons, András Z. Salamon:
Generalizing constraint satisfaction on trees: Hybrid tractability and variable elimination. 570-584

Peter Schachte, Harald Søndergaard, Leigh Whiting, Kevin Henshall:
Information loss in knowledge compilation: A comparison of Boolean envelopes. 585-596

Yuhua Qian, Jiye Liang, Witold Pedrycz, Chuangyin Dang:
Positive approximation: An accelerator for attribute reduction in rough set theory. 597-618

Mausam, Stephen Soderland, Oren Etzioni, Daniel S. Weld, Kobi Reiter, Michael Skinner, Marcus Sammer, Jeff Bilmes:
Panlingual lexical translation via probabilistic inference. 619-637

Volume 174, Number 11, July 2010

Loizos Michael:
Partial observability and learnability. 639-669

Paolo Ciancarini, Gian Piero Favini:
Monte Carlo tree search in Kriegspiel. 670-684

Frédéric Koriche, Bruno Zanuttini:
Learning conditional preference networks. 685-703

Mohan Sridharan, Jeremy L. Wyatt, Richard Dearden:
Planning to see: A hierarchical approach to planning visual actions on a robot using POMDPs. 704-725

Doug Downey, Oren Etzioni, Stephen Soderland:

Analysis of a probabilistic model of redundancy in unsupervised information extraction. 726-748

Pingzhong Tang, Yoav Shoham, Fangzhen Lin:
Designing competitions between teams of individuals. 749-766

Volume 174, Numbers 12-13, August 2010

Michael Katz, Carmel Domshlak:
Optimal admissible composition of abstraction heuristics. 767-798

Jérôme Lang, Pierre Marquis:
Reasoning under inconsistency: A forgetting-based approach. 799-823

Patricia Everaere, Sébastien Konieczny, Pierre Marquis:
Disjunctive merging: Quota and Gmin merging operators. 824-849

Christine Solnon:
AllDifferent-based filtering for subgraph isomorphism. 850-864

Ryan F. Kelly, Adrian R. Pearce:
Property persistence in the situation calculus. 865-888

Peter A. Thwaites, Jim Q. Smith, Eva Riccomagno:
Causal analysis with Chain Event Graphs. 889-909

Krzysztof Z. Gajos, Daniel S. Weld, Jacob O. Wobbrock:
Automatically generating personalized user interfaces with Supple. 910-950

Weiming Liu, Xiaotong Zhang, Sanjiang Li, Mingsheng Ying:
Reasoning about cardinal directions between extended objects. 951-983

Ole J. Mengshoel:
Understanding the scalability of Bayesian network inference using clique tree growth curves. 984-1006

Volume 174, Number 14, September 2010

Anthony Hunter, Sébastien Konieczny:
On the measure of conflicts: Shapley Inconsistency Values. 1007-1026

John A. Bateman, Joana Hois, Robert J. Ross, Thora Tenbrink:
A linguistic ontology of space for natural language processing. 1027-1071

Sandra Zilles, Robert C. Holte:
The computational complexity of avoiding spurious states in state space abstraction. 1072-1092

Volume 174, Number 15, October 2010

Roman Kontchakov, Frank Wolter, Michael Zakharyashev:
Logic-based ontology comparison and module extraction, with an application to DL-Lite. 1093-1141

James Pita, Manish Jain, Milind Tambe, Fernando Ordóñez, Sarit Kraus:
Robust solutions to Stackelberg games: Addressing bounded rationality and limited observations in human cognition. 1142-1171

Thomas Eiter, Esra Erdem, Michael Fink, Ján Senko:
Updating action domain descriptions. 1172-1221

Joel Uckelman, Ulle Endriss:
Compactly representing utility functions using weighted goals and the max aggregator.
1222-1246

Fabrizio Angiulli, Rachel Ben-Eliyahu-Zohary, Luigi Palopoli:
Outlier detection for simple default theories. 1247-1253

Mario Graff, Riccardo Poli:
Practical performance models of algorithms in evolutionary program induction and other domains. 1254-1276

Jinbo Huang:
Extended clause learning. 1277-1284

Volume 174, Numbers 16-17, November 2010

Mirosław Truszczyński:
Reducts of propositional theories, satisfiability relations, and generalizations of semantics of logic programs. 1285-1306

Dongmo Zhang:
A logic-based axiomatic model of bargaining. 1307-1322

Dana S. Nau, Mitja Lustrek, Austin Parker, Ivan Bratko, Matjaz Gams:
When is it better not to look ahead? 1323-1338

Richard Booth, Samir Chopra, Thomas Andreas Meyer, Aditya Ghose:
Double preference relations for generalised belief change. 1339-1368

Ivan Serina:
Kernel functions for case-based planning. 1369-1406

Christopher Jefferson, Neil C. A. Moore, Peter Nightingale, Karen E. Petrie:
Implementing logical connectives in constraint programming. 1407-1429

Volume 174, Number 18, December 2010

Erik Sandewall:
Defeasible inheritance with doubt index and its axiomatic characterization. 1431-1459

Ya'akov Gal, Barbara J. Grosz, Sarit Kraus, Avi Pfeffer, Stuart M. Shieber:
Agent decision-making in open mixed networks. 1460-1480

Rui Abreu, Arjan J. C. van Gemund:
Diagnosing multiple intermittent failures using maximum likelihood estimation. 1481-1497

Diedrich Wolter, J. H. Lee:
Qualitative reasoning with directional relations. 1498-1507

José Hernández-Orallo, David L. Dowe:
Measuring universal intelligence: Towards an anytime intelligence test. 1508-1539

Hankz Hankui Zhuo, Qiang Yang, Derek Hao Hu, Lei Li:
Learning complex action models with quantifiers and logical implications. 1540-1569

Zhi-Hua Zhou, Jianxin Wu, Wei Tang:
Corrigendum to "Ensembling neural networks: Many could be better than all" [Artificial Intelligence 137 (1-2) (2002) 239-263]. 1570

Artificial Intelligence, Volume 175

Volume 175, Number 1, January 2011

Leora Morgenstern, Sheila A. McIlraith:
John McCarthy's legacy. 1-24

Alfredo Gabaldon:
Non-Markovian control in the Situation Calculus. 25-48

Antonis C. Kakas, Loizos Michael, Rob Miller:
Modular- ϵ and the role of elaboration tolerance in solving the qualification problem.
49-78

Phan Huy Tu, Tran Cao Son, Michael Gelfond, A. Ricardo Morales:
Approximation of action theories and its application to conformant planning. 79-119

Michael Thielscher:
A unifying action calculus. 120-141

Gerhard Lakemeyer, Hector J. Levesque:
A semantic characterization of a useful fragment of the situation calculus with knowledge.
142-164

Steven Shapiro, Maurice Pagnucco, Yves Lespérance, Hector J. Levesque:
Iterated belief change in the situation calculus. 165-192

Afsaneh Shirazi, Eyal Amir:
First-order logical filtering. 193-219

Joseph Y. Halpern, Riccardo Pucella:
Dealing with logical omniscience: Expressiveness and pragmatics. 220-235

Paolo Ferraris, Joohyung Lee, Vladimir Lifschitz:
Stable models and circumscription. 236-263

Fangzhen Lin, Yi Zhou:
From answer set logic programming to circumscription via logic of GK. 264-277

Wolfgang Faber, Gerald Pfeifer, Nicola Leone:
Semantics and complexity of recursive aggregates in answer set programming. 278-298

Ernest Davis:
How does a box work? A study in the qualitative dynamics of solid objects. 299-345

Pedro Cabalar, Paulo E. Santos:
Formalising the Fisherman's Folly puzzle. 346-377

Fiora Pirri:
The well-designed logical robot: Learning and experience from observations to the
Situation Calculus. 378-415

Erik Sandewall:
From systems to logic in the early development of nonmonotonic reasoning. 416-427

Johan van Benthem:
McCarthy variations in a modal key. 428-439

Volume 175, Number 2, February 2011

Baharak Rastegari, Anne Condon, Kevin Leyton-Brown:
Revenue monotonicity in deterministic, dominant-strategy combinatorial auctions. 441-456

Paul E. Dunne, Anthony Hunter, Peter McBurney, Simon Parsons, Michael Wooldridge:
Weighted argument systems: Basic definitions, algorithms, and complexity results. 457-486

Feng Wu, Shlomo Zilberstein, Xiaoping Chen:
Online planning for multi-agent systems with bounded communication. 487-511

Knot Pipatsrisawat, Adnan Darwiche:
On the power of clause-learning SAT solvers as resolution engines. 512-525

Stephanie Elzer, Sandra Carberry, Ingrid Zukerman:
The automated understanding of simple bar charts. 526-555

Alfonso Gerevini, Alessandro Saetti:
Computing the minimal relations in point-based qualitative temporal reasoning through metagraph closure. 556-585

Peter Nightingale:
The extended global cardinality constraint: An empirical survey. 586-614

Siddharth Srivastava, Neil Immerman, Shlomo Zilberstein:
A new representation and associated algorithms for generalized planning. 615-647

Athanasios Papakonstantinou, Alex Rogers, Enrico H. Gerding, Nicholas R. Jennings:
Mechanism design for the truthful elicitation of costly probabilistic estimates in distributed information systems. 648-672

Omer Qadir, Jerry Liu, Gianluca Tempesti, Jon Timmis, Andy M. Tyrrell:
From Bidirectional Associative Memory to a noise-tolerant, robust Protein Processor Associative Memory. 673-693

Vibhav Gogate, Rina Dechter:
SampleSearch: Importance sampling in presence of determinism. 694-729

Alex Rogers, Alessandro Farinelli, Ruben Stranders, Nicholas R. Jennings:
Bounded approximate decentralised coordination via the max-sum algorithm. 730-759

Florence Dupin de Saint-Cyr, Jérôme Lang:
Belief extrapolation (or how to reason about observations and unpredicted change). 760-790

Volume 175, Numbers 3-4, March 2011

Pietro Baroni, Paul E. Dunne, Massimiliano Giacomin:
On the resolution-based family of abstract argumentation semantics and its grounded instance. 791-813

Emiliano Lorini, François Schwarzentruber:
A logic for reasoning about counterfactual emotions. 814-847

Daniel Bryce, William Cushing, Subbarao Kambhampati:
State agnostic planning graphs: deterministic, non-deterministic, and probabilistic planning. 848-889

Yin Chen, Fangzhen Lin, Yan Zhang, Yi Zhou:
Loop-separable programs and their first-order definability. 890-913

Yun Fan, Jing Shen:
On the phase transitions of random k-constraint satisfaction problems. 914-927

Volume 175, Numbers 5-6, April 2011

Editorial

Randy Goebel, Mary-Anne Williams:
The expansion continues: Stitching together the breadth of disciplines impinging on Artificial Intelligence. 929

Book Review

Kevin McGee:
K. Tanaka-Ishii, *Semiotics of Programming*. 930-931

Peter van Beek:

David L. Poole and Alan K. Mackworth, *Artificial Intelligence: Foundations of Computational Agents*, Cambridge University Press (2010). 932-934

Ashish Sabharwal, Bart Selman:

S. Russell, P. Norvig, *Artificial Intelligence: A Modern Approach*, Third Edition. 935-937

Peter Norvig:

Nils J. Nilsson, *The Quest for Artificial Intelligence*, Cambridge (2010). 938-939

Review Papers

M. Ryan Calo:
Peeping Hals. 940-941

Patrick Lin, Keith Abney, George A. Bekey:

Robot ethics: Mapping the issues for a mechanized world. 942-949

Diane Proudfoot:

Anthropomorphism and AI: Turing's much misunderstood imitation game. 950-957

Jonathan Rubin, Ian Watson:

Computer poker: A review. 958-987

Hai Zhuge:

Semantic linking through spaces for cyber-physical-socio intelligence: A methodology. 988-1019

Nick Hawes:

A survey of motivation frameworks for intelligent systems. 1020-1036

Volume 175, Numbers 7-8, May 2011

Carmel Domshlak, Eyke Hüllermeier, Souhila Kaci, Henri Prade:

Preferences in AI: An overview. 1037-1052

Nic Wilson:

Computational techniques for a simple theory of conditional preferences. 1053-1091

Denis Mindolin, Jan Chomicki:

Contracting preference relations for database applications. 1092-1121

Michael McGeachie, Jon Doyle:

The local geometry of multiattribute tradeoff preferences. 1122-1152

Christophe Gonzales, Patrice Perny, Jean-Philippe Dubus:

Decision making with multiple objectives using GAI networks. 1153-1179

Ronen I. Brafman:

Relational preference rules for control. 1180-1193

Meltem Öztürk, Marc Pirlot, Alexis Tsoukiàs:
Representing preferences using intervals. 1194-1222

Willem Waegeman, Bernard De Baets:
On the ERA ranking representability of pairwise bipartite ranking functions. 1223-1250

Vincent Conitzer, Tuomas Sandholm:
Expressive markets for donating to charities. 1251-1271

Maria Silvia Pini, Francesca Rossi, Kristen Brent Venable, Toby Walsh:
Incompleteness and incomparability in preference aggregation: Complexity results.
1272-1289

Fusun Yaman, Thomas J. Walsh, Michael L. Littman, Marie desJardins:
Democratic approximation of lexicographic preference models. 1290-1307

Meghyn Bienvenu, Christian Fritz, Sheila A. McIlraith:
Specifying and computing preferred plans. 1308-1345

Daniel Kikuti, Fabio Gagliardi Cozman, Ricardo Shirota Filho:
Sequential decision making with partially ordered preferences. 1346-1365

Gildas Jeantet, Olivier Spanjaard:
Computing rank dependent utility in graphical models for sequential decision problems.
1366-1389

Michael D. Moffitt:
On the modelling and optimization of preferences in constraint-based temporal reasoning.
1390-1409

Christophe Labreuche:
A general framework for explaining the results of a multi-attribute preference model.
1410-1448

Marie-Jo Bellosta, Sylvie Kornman, Daniel Vanderpooten:
Preference-based English reverse auctions. 1449-1467

Ana Casali, Lluís Godo, Carles Sierra:
A graded BDI agent model to represent and reason about preferences. 1468-1478

Volume 175, Numbers 9-10, June 2011

Nikos Gorogiannis, Anthony Hunter:
Instantiating abstract argumentation with classical logic arguments: Postulates and
properties. 1479-1497

Karina Valdivia Delgado, Scott Sanner, Leliane Nunes de Barros:
Efficient solutions to factored MDPs with imprecise transition probabilities. 1498-1527

Matthias Knorr, José Júlio Alferes, Pascal Hitzler:
Local closed world reasoning with description logics under the well-founded semantics.
1528-1554

Martin C. Cooper, Stanislav Zivny:
Hybrid tractability of valued constraint problems. 1555-1569

Ariel Felner, Uzi Zahavi, Robert Holte, Jonathan Schaeffer, Nathan R. Sturtevant, Zhifu
Zhang:

Inconsistent heuristics in theory and practice. 1570-1603

Jure Zabkar, Martin Mozina, Ivan Bratko, Janez Demsar:
Learning qualitative models from numerical data. 1604-1619

Jean-François Baget, Michel Leclère, Marie-Laure Mugnier, Eric Salvat:
On rules with existential variables: Walking the decidability line. 1620-1654

Ioannis Caragiannis, Ariel D. Procaccia:
Voting almost maximizes social welfare despite limited communication. 1655-1671

Shaowei Cai, Kaile Su, Abdul Sattar:
Local search with edge weighting and configuration checking heuristics for minimum vertex cover. 1672-1696

David Murray-Rust, Alan Smaill:
Towards a model of musical interaction and communication. 1697-1721

Eun Jung Kim, Sebastian Ordyniak, Stefan Szeider:
Algorithms and complexity results for persuasive argumentation. 1722-1736

Simone Paolo Ponzetto, Michael Strube:
Taxonomy induction based on a collaboratively built knowledge repository. 1737-1756

Volume 175, Number 11, July 2011

Francisco S. Melo, Manuela M. Veloso:
Decentralized MDPs with sparse interactions. 1757-1789

Bei Shui Liao, Li Jin, Robert C. Koons:
Dynamics of argumentation systems: A division-based method. 1790-1814

Steven Schockaert, Henri Prade:
Solving conflicts in information merging by a flexible interpretation of atomic propositions. 1815-1855

Sylvain Gelly, David Silver:
Monte-Carlo tree search and rapid action value estimation in computer Go. 1856-1875

Volume 175, Numbers 12-13, August 2011

Gianluigi Greco, Enrico Malizia, Luigi Palopoli, Francesco Scarcello:
On the complexity of core, kernel, and bargaining set. 1877-1910

Gert de Cooman, Enrique Miranda, Marco Zaffalon:
Independent natural extension. 1911-1950

Tias Guns, Siegfried Nijssen, Luc De Raedt:
Itemset mining: A constraint programming perspective. 1951-1983

Volume 175, Numbers 14-15, September 2011

Emilia Oikarinen, Stefan Woltran:
Characterizing strong equivalence for argumentation frameworks. 1985-2009

Pingzhong Tang, Fangzhen Lin:
Discovering theorems in game theory: Two-person games with unique pure Nash equilibrium payoffs. 2010-2020

Sebastian Stein, Enrico H. Gerding, Alex Rogers, Kate Larson, Nicholas R. Jennings:

Algorithms and mechanisms for procuring services with uncertain durations using redundancy. 2021-2060

Volume 175, Numbers 16-17, October - November 2011

Travis C. Service, Julie A. Adams:
Randomized coalition structure generation. 2061-2074

Shahab Jabbari Arfaee, Sandra Zilles, Robert C. Holte:
Learning heuristic functions for large state spaces. 2075-2098

Reinhard Moratz, Dominik Lücke, Till Mossakowski:
A condensed semantics for qualitative spatial reasoning about oriented straight line segments. 2099-2127

Volume 175, Number 18, December 2011

Husain Aljazzar, Stefan Leue:
K*: A heuristic search algorithm for finding the k shortest paths. 2129-2154

Weiming Liu, Sanjiang Li:
Reasoning about cardinal directions between extended objects: The NP-hardness result. 2155-2169

Hongkai Liu, Carsten Lutz, Maja Milicic, Frank Wolter:
Foundations of instance level updates in expressive description logics. 2170-2197

Saket Joshi, Kristian Kersting, Roni Khardon:
Decision-theoretic planning with generalized first-order decision diagrams. 2198-2222

Artificial Intelligence, Volume 176

Volume 176, Number 1, January 2012

James P. Delgrande, Yi Jin:
Parallel belief revision: Revising by sets of formulas. 2223-2245

Tao Chen, Nevin Lianwen Zhang, Tengfei Liu, Kin Man Poon, Yi Wang:
Model-based multidimensional clustering of categorical data. 2246-2269

Ya'akov Gal, Swapna Reddy, Stuart M. Shieber, Andee Rubin, Barbara J. Grosz:
Plan recognition in exploratory domains. 2270-2290

Zhi-Hua Zhou, Min-Ling Zhang, Sheng-Jun Huang, Yu-Feng Li:
Multi-instance multi-label learning. 2291-2320

Artificial Intelligence, Volumes 177-179

Volumes 177-179, February - March 2012

Vernon Asuncion, Fangzhen Lin, Yan Zhang, Yi Zhou:
Ordered completion for first-order logic programs on finite structures. 1-24

Omer Giménez, Anders Jonsson:
The influence of k-dependence on the complexity of planning. 25-45

Artificial Intelligence, Volumes 180-181

Volumes 180-181, April 2012

Michael Zuckerman, Piotr Faliszewski, Yoram Bachrach, Edith Elkind:
Manipulating the quota in weighted voting games. 1-19

Yang Yu, Xin Yao, Zhi-Hua Zhou:
On the approximation ability of evolutionary optimization with application to minimum set cover. 20-33

Till Mossakowski, Reinhard Moratz:
Qualitative reasoning about relative direction of oriented points. 34-45

Artificial Intelligence, Volumes 182-183

Volumes 182-183, May 2012

Dominik Janzing, Joris M. Mooij, Kun Zhang, Jan Lemeire, Jakob Zscheischler, Povilas Daniusis, Bastian Steudel, Bernhard Schölkopf:
Information-geometric approach to inferring causal directions. 1-31

Byung Kon Kang, Kee-Eung Kim:
Exploiting symmetries for single- and multi-agent Partially Observable Stochastic Domains. 32-57

Michele Lombardi, Michela Milano:
A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling. 58-67

Artificial Intelligence, Volumes 184-185

Volumes 184-185, June 2012

Geoffrey Chu, Peter J. Stuckey:
A complete solution to the Maximum Density Still Life Problem. 1-16

Vincent Wenchen Zheng, Yu Zheng, Xing Xie, Qiang Yang:
Towards mobile intelligence: Learning from GPS history data for collaborative recommendation. 17-37

Vibhav Gogate, Rina Dechter:
Importance sampling-based estimation over AND/OR search spaces for graphical models. 38-77

Nicola Basilico, Nicola Gatti, Francesco Amigoni:
Patrolling security games: Definition and algorithms for solving large instances with single patroller and single intruder. 78-123

Artificial Intelligence, Volume 186

Volume 186, July 2012

Wolfgang Dvorák, Reinhard Pichler, Stefan Woltran:
Towards fixed-parameter tractable algorithms for abstract argumentation. 1-37

Mark d'Inverno, Michael Luck, Pablo Noriega, Juan A. Rodríguez-Aguilar, Carles Sierra:
Communicating open systems. 38-94

Talal Rahwan, Tomasz P. Michalak, Michael Wooldridge, Nicholas R. Jennings:
Anytime coalition structure generation in multi-agent systems with positive or negative externalities. 95-122

Reshef Meir, Ariel D. Procaccia, Jeffrey S. Rosenschein:
Algorithms for strategyproof classification. 123-156

Wolfgang Dvorák, Sebastian Ordyniak, Stefan Szeider:
Augmenting tractable fragments of abstract argumentation. 157-173

Artificial Intelligence, Volume 187

Volumes 187-188, August 2012

Sebastian Haufe, Stephan Schiffel, Michael Thielscher:
Automated verification of state sequence invariants in general game playing. 1-30

Ioannis Caragiannis, Jason A. Covey, Michal Feldman, Christopher M. Homan, Christos Kaklamanis, Nikos Karanikolas, Ariel D. Procaccia, Jeffrey S. Rosenschein:
On the approximability of Dodgson and Young elections. 31-51

Martin Gebser, Benjamin Kaufmann, Torsten Schaub:
Conflict-driven answer set solving: From theory to practice. 52-89

Dominik Fisch, Martin Jänicke, Edgar Kalkowski, Bernhard Sick:
Learning from others: Exchange of classification rules in intelligent distributed systems. 90-114

Finale Doshi-Velez, Joelle Pineau, Nicholas Roy:
Reinforcement learning with limited reinforcement: Using Bayes risk for active learning in POMDPs. 115-132

Hans P. van Ditmarsch, Wiebe van der Hoek, Barteld P. Kooi:
Local properties in modal logic. 133-155

Mario Alviano, Wolfgang Faber, Gianluigi Greco, Nicola Leone:
Magic Sets for disjunctive Datalog programs. 156-192

Artificial Intelligence, Volume 189

Volume 189, September 2012

Noam Hazon, Yonatan Aumann, Sarit Kraus, Michael Wooldridge:
On the evaluation of election outcomes under uncertainty. 1-18

Andrey Kolobov, Mausam, Daniel S. Weld:
Discovering hidden structure in factored MDPs. 19-47

Carmel Domshlak, Michael Katz, Sagi Lefler:
Landmark-enhanced abstraction heuristics. 48-68

Brahim Hnich, Roberto Rossi, S. Armagan Tarim, Steven David Prestwich:
Filtering algorithms for global chance constraints. 69-94

Artificial Intelligence, Volume 190

Volume 190, October 2012

Tuan Anh Nguyen, Minh Binh Do, Alfonso Gerevini, Ivan Serina, Biplav Srivastava, Subbarao Kambhampati:
Generating diverse plans to handle unknown and partially known user preferences. 1-31

Chu Min Li, Zhu Zhu, Felip Manyà, Laurent Simon:
Optimizing with minimum satisfiability. 32-44

Artificial Intelligence, Volume 191

Volume 191-192, November 2012

Siddharth Srivastava, Neil Immerman, Shlomo Zilberstein:
Applicability conditions for plans with loops: Computability results and algorithms. 1-19

Jonathan Lawry, Yongchuan Tang:
On truth-gaps, bipolar belief and the assertability of vague propositions. 20-41

Georg Gottlob:
On minimal constraint networks. 42-60

Veronica L. Pollicchio, Adriana Pietramala, Pasquale Rullo:
GAMoN: Discovering M-of-N{ \neg , \vee } hypotheses for text classification by a lattice-based Genetic Algorithm. 61-95

Alan Bundy:
Robert Kowalski, , Computational Logic and Human Thinking: How to Be Artificially Intelligent (2011) . 96-97

Artificial Intelligence, Volume 193

Volume 193, December 2012

Yun Fan, Jing Shen, Ke Xu:
A general model and thresholds for random constraint satisfaction problems. 1-17

Ringo Baumann:
Normal and strong expansion equivalence for argumentation frameworks. 18-44

Jussi Rintanen:
Planning as satisfiability: Heuristics. 45-86

Andrea Cali, Georg Gottlob, Andreas Pieris:
Towards more expressive ontology languages: The query answering problem. 87-128

Santiago Ontaño, Pilar Dellunde, Lluís Godo, Enric Plaza:
A defeasible reasoning model of inductive concept learning from examples and communication. 129-148

W. T. Luke Teacy, Michael Luck, Alex Rogers, Nicholas R. Jennings:
An efficient and versatile approach to trust and reputation using hierarchical Bayesian modelling. 149-185

Arnon Netzer, Alon Grubshtein, Amnon Meisels:
Concurrent forward bounding for distributed constraint optimization problems. 186-216

Roberto Navigli, Simone Paolo Ponzetto:
BabelNet: The automatic construction, evaluation and application of a wide-coverage multilingual semantic network. 217-250

Artificial Intelligence, Volume 194

Volume 194, January 2013

Eduard H. Hovy, Roberto Navigli, Simone Paolo Ponzetto:
Editorial. 1

Introduction
Eduard H. Hovy, Roberto Navigli, Simone Paolo Ponzetto:

Collaboratively built semi-structured content and Artificial Intelligence: The story so far. 2-27

Acquiring knowledge

Johannes Hoffart, Fabian M. Suchanek, Klaus Berberich, Gerhard Weikum:
YAG02: A spatially and temporally enhanced knowledge base from Wikipedia. 28-61

Vivi Nastase, Michael Strube:

Transforming Wikipedia into a large scale multilingual concept network. 62-85

IR applications

Pekka Malo, Pyry-Antti Siitari, Ankur Sinha:
Automated query learning with Wikipedia and genetic programming. 86-110

Rianne Kaptein, Jaap Kamps:

Exploiting the category structure of Wikipedia for entity ranking. 111-129

NLP applications

Ben Hachey, Will Radford, Joel Nothman, Matthew Honnibal, James R. Curran:
Evaluating Entity Linking with Wikipedia. 130-150

Joel Nothman, Nicky Ringland, Will Radford, Tara Murphy, James R. Curran:

Learning multilingual named entity recognition from Wikipedia. 151-175

Majid Yazdani, Andrei Popescu-Belis:

Computing text semantic relatedness using the contents and links of a hypertext encyclopedia. 176-202

Sara Tonelli, Claudio Giuliano, Kateryna Tymoshenko:

Wikipedia-based WSD for multilingual frame annotation. 203-221

Tools

David N. Milne, Ian H. Witten:

An open-source toolkit for mining Wikipedia. 222-239

Neuroimaging

Francisco Pereira, Matthew Botvinick, Greg Detre:

Using Wikipedia to learn semantic feature representations of concrete concepts in neuroimaging experiments. 240-252