AAAI-11 Accepted Paper List
(Ordered by submission ID number; titles and authors will be updated for proceedings and final program based on final camera-ready copy)

Main Technical Track

Special Track on AI and the Web
Special Track on Computational Sustainability and AI
Special Track on Integrated Intelligence
Special Track on Physically Grounded AI
NECTAR (New Scientific and Technical Advances in Research) Track

Main Technical Track

6: Enhancing Semantic Role Labeling for Tweets Using Self-training
Xiaohua Liu

10: Ordinal Regression via Manifold Learning
Yang Liu, Yan Liu, Keith C. C. Chan

18(was II): Plan Diversity by Integrating Heuristic Planning and Ideas from Case-Based Reasoning
Alexandra Coman, Hector Munoz-Avila

22: Dual Decomposition for Marginal Inference
Domke Justin

24: A POMDP Model of Eye-Hand Coordination
Tom Erez, Julian Tramper, William Smart, Stan Gielen

28: Social Relations Model for Collaborative Filtering
Wu-Jun Li

31: Symmetric Graph Regularized Constraint Propagation
Zhenyong Fu, Zhiwu Lu, H.S. Ip

33: Learning Instance Specific Distance via Efficient l0+-Norm Minimization for Multi-Instance Classification
Hua Wang, Feiping Nie, Heng Huang

35: Complexity of and Algorithms for Borda Manipulation
Jessica Davies, George Katsirelos, Nina Narodytska, Toby Walsh

38: Online Graph Pruning For Pathfinding On Grid Maps
Daniel Harabor, Alban Grastien

41: Value Function Approximation in Reinforcement Learning using the Fourier Basis
George Konidaris, Sarah Osentoski, Philip Thomas

45: Quickly Calculating All Correlated Equilibria of Stochastic Games
Liam Mac Dermed, Karthik Narayan, Lora Weiss, Charles L Isbell

50: OASIS: Online Active SemI-Supervised Learning
Andrew Goldberg, Xiaojin Zhu, Alex Furger, Jun-Ming Xu

53: Efficiently Learning a Distance Metric for Large Margin Nearest Neighbor Classification
Kyoungup Park, Chunhua Shen, Zhihui Hao, Junae Kim

54: A Modular Consistency Proof for DOLCE
Oliver Kutz, Dominik Luecke, Till Mossakowski

60: Spectrum-Based Sequential Diagnosis
Alberto Gonzalez-Sanchez, Rui Abreu, Hans-Gerhard Gross, Arjan van Gemund

64: Block A*: Database-Driven Search with Applications in Any-angle Path-Planning
Peter Yap, Neil Burch, Robert Holte, Jonathan Schaeffer

67: Causal Theories of Actions Revisited
Fangzhen Lin, Mikhail Soutchanski

82: Learning a Kernel for Multi-Task Clustering
Quanquan Gu, Zhenhui Li, Jiawei Han

90: Latent Semantic Learning by Efficient Sparse Coding with Hypergraph Regularization
Zhiwu Lu

93: The Compressed Differential Heuristics
Meir Goldenberg, Ariel Felner, Nathan Sturtevant, Jonathan Schaeffer

94: Limits of Preprocessing
Stefan Szeider

101: Efficient Methods for Lifted Inference with Aggregate Factors
Jaesik Choi, Rodrigo de Salvo Braz, Hung Bui

105: The Inter-League Extension of the Traveling Tournament Problem and its Application to Sports Scheduling
Richard Hoshino, Ken-ichi Kawarabayashi

108: Multi-task Learning in Square Integrable Space
Wu Wei, Hang Li

124: CosTriage: A Cost-Aware Triage Algorithm for Bug Reporting Systems
Jin-woo Park, Mu-woong Lee, Jinhan Kim, Seung-won Hwang, Sunghun Kim

139: Constrained Coalition Formation
Talal Rahwan, Tomasz Michalak, Edith Elkind, Piotr Faliszewski, Michael Wooldridge, Nicholas Jennings

140: A General Nogood-Learning Framework for Pseudo-Boolean Multi-Valued SAT
Siddhartha Jain, Ashish Sabharwal, Meinolf Sellmann

142: Learning Structured Embeddings of Knowledge Bases
Antoine Bordes, Jason Weston, Ronan Collobert, Yoshua Bengio
143: Euclidean Heuristic Optimization
Chris Rayner, Michael Bowling, Nathan Sturtevant

145: Large Scale Spectral Clustering with Landmark-based Representation
Xinlei Chen, Deng Cai

148: Sparse Group Restricted Boltzmann Machines
Heng Luo, Ruimin Shen, Changyong Niu, Carsten Ullrich

151: WikiSimple: Automatic Simplification of Wikipedia Articles
Kristian Woodsend, Mirella Lapata

168: Size Adaptive Selection of Most Informative Features
Si Liu, Liu Hairong, Longin Jan Latecki, Shuicheng Yan, Changsheng Xu, Hanqing Lu

172: Efficient Subspace Segmentation via Quadratic Programming
Shusen Wang, Xiaotong Yuan, Shuicheng Yan

190: Escrow Mechanisms: Solving Trust Problems without Reputation
Jens Witkowski, Sven Seuken, David Parkes

195: Heterogeneous Transfer Learning with RBMs
Bin Wei

198: Direct Density-Ratio Estimation with Dimensionality Reduction via Hetero-Distributional Subspace Ana
Makoto Yamada, Masashi Sugiyama

217: A Scalable Spectral Relaxation Approach to Matrix Completion via Kronecker Products
Hui Zhao, Naiyan Wang, Zhihua Zhang

221: Optimal Envy-Free Cake Cutting
Yuga Cohler, John Lai, David Parkes, Ariel Procaccia

225: Complete Information Pursuit Evasion in Polygonal Environments
Kyle Klein, Subhash Suri

226: Branch and Price for Multi-Agent Plan Recognition
Bikramjit Banerjee, Landon Kraemer

229: Dominant-Strategy Auction Design for Agents with Uncertain, Private Values
David R.M. Thompson, Kevin Leyton-Brown

231: ANA*: Anytime Nonparametric A*
Jur van den Berg, Rajat Shah, Arthur Huang, Ken Goldberg

237: Leveraging Wikipedia Characteristics for Search and Candidate Generation in Question Answering
Jennifer Chu-Carroll, James Fan

241: Multi-Task Learning in Heterogeneous Feature Spaces
Yu Zhang

242: Integrating Rules and Description Logics by Circumscription
Qian Yang, Jia-Huai You, Zhiyong Feng

255: Adding default attributes to EL++
Piero Bonatti, Marco Faella, Luigi Sauro

256: Social Recommendation Using Low-Rank Semidefinite Program
Jianke Zhu, Hao Ma, Chun Chen, Jiajun Bu

281: Revisiting Semantics for Epistemic Extensions of Description Logics
Anees ul Mehdi, Sebastian Rudolph

293: A Generalized Solution to the Out-of-Sample Extension Problem in Manifold Learning
Harry Strange, Reyer Zwiggelaar

296: Towards Evolutionary Nonnegative Matrix Factorization
Fei Wang, Hanghang Tong, Ching-Yung Lin

297: When to Stop? That is the Question
Meir Kalech, Shulamit Reches, Rami Stern

305: Coarse-to-Fine Inference and Learning for First-Order Probabilistic Models
Chloe Kiddon, Pedro Domingos

306: Distributed Constraint Optimization under Stochastic Uncertainty
Thomas Léauté, Boi Faltings

311: Simulated Annealing based Influence Maximization in Social Networks
Qingye JIANG, SONG Guojie, Gao Cong, Yu WANG, wenjun SI, kunqing XIE

315: On Improving Conformant Planners by Exploiting Domain-Structures
Khoi Nguyen, Vien Tran, Tran Son, Enrico Pontelli

319: Automated Action Abstraction of Imperfect Information Extensive-Form Games
John Hawkin, Robert Holte, Duane Szafron

326: Abductive Markov Logic for Plan Recognition
Parag Singla, Raymond Mooney

327: Unsupervised Learning of Human Behaviours
Sook-Ling Chua, Stephen Marsland, Hans W. Guesgen

328: Bounded Forgetting
Yi Zhou, Yan Zhang

333: Language Splitting and Relevance-Based Belief Change in Horn Logic
Maolian Wu, Dongmo Zhang, Mingyi Zhang

341: Learning in Repeated Games with Minimal Information: The Effects of Learning Bias
Jacob Crandall, Asad Ahmed, Michael Goodrich

363: Nonnegative Spectral Clustering with Discriminative Regularization
Yi Yang, Heng Tao Shen, Feiping Nie, Rongrong Ji, Xiaofang Zhou

368: Non-parametric Approximate Linear Programming for MDPs
Jason Pazis, Parr Ronald

378: Campaign Management under Approval-Driven Voting Rules
Ildikó Schlotter, Edith Elkind, Piotr Faliszewski

380: Collaborative Users’ Brand Preference Mining in Multiple Domains from Implicit Feedbacks
Jian Tang, Jun Yan, Ming Zhang

383: Planning for Operational Control Systems with Predictable Exogenous Events
Ronen Brafman, Carmel Domshlak, Yagil Engel, Zohar Feldman

385: Towards Maximizing The Area Under The ROC Curve For Multi-class Classification Problems
Ke Tang, Rui Wang, Tianshi Chen

387: Recognizing Plans with Loops Represented in a Lexicalized Grammar
Christopher Geib, Robert Goldman

393: A Switching Planner for Combined Task and Observation Planning
Moritz Göbelbecker, Charles O Gretton, Richard Dearden

394: A Functional Analysis of Historical Memory Retrieval Bias in the Word Sense Disambiguation Task
Nate Derbinsky, Laird John

402: Learning to Interpret Natural Language Navigation Instructions from Observations
David Chen, Raymond Mooney

409: Multiagent Patrol Generalized to Complex Environmental Conditions
Noa Agmon, Daniel Urieli, Peter Stone

419: A Feasible Nonconvex Relaxation Approach to Feature Selection
Cuixia Gao, Naiyan Wang, Qi Yu, Zhihua Zhang

423: A Semantical Account of Progression in the Presence of Uncertainty
Vaishak Belle, Gerhard Lakemeyer

424: Heuristic Search for Large Problems With Real Costs
Matthew Hatem, Ethan Burns, Wheeler Ruml

425: Market Manipulation with Outside Incentives
Yiling Chen, Xi Alice Gao, Rick Goldstein, Ian Kash

429: Efficiency and Privacy Tradeoffs in Mechanism Design
Xin Sui, Craig Boutilier
521: The Epistemic Logic Behind the Game Description Language
Ji Ruan, Michael Thielescher

527: Sparse Matrix-variate $t$-process Blockmodels
Zenglin Xu, Feng Yan, Yuan Qi

533: Fast Newton-CG Method for Batch Learning of Conditional Random Fields
Yuta Tsuboi, Yuya Unno, Hisashi Kashima, Naoaki Okazaki

543: Corpus-based and Knowledge-based Measures of Semantic Relatedness
Samer Hassan, Rada Mihalcea

560: Computing an Extensive-Form Perfect Equilibrium in Two-Player Games
Nicola Gatti, Claudio Iuliano

561: Tree Sequence Kernel for Natural Language
Jun Sun, Min Zhang, Chew Lim Tan

572: Trajectory Regression on Road Networks
Tsuyoshi Ide, Masashi Sugiyama

573: Automated Abstractions for Patrolling Security Games
Nicola Basilico, Nicola Gatti

576: Exploiting Path Refinement Abstraction in Domain Transition Graphs
Peter Gregory, Derek Long

577: Conjunctive Representations in Contingent Planning: Prime Implicates v.s. Minimal CNF Formula
Son To, Tran Son, Enrico Pontelli

579: Partially Supervised Text Classification with Multi-Level Examples
Tao Liu, Minghui Li

583: A Distributed Anytime Algorithm for Dynamic Task Allocation in Multi-Agent Systems
Kathryn Macarthur, Ruben Stranders, Sarvapali Ramchurn, Nicholas Jennings

590: How to Calibrate the Scores of Biased Reviewers by Quadratic Programming
Magnus Roos, Joerg Rothe, Björn Scheuermann

593: On the Complexity of BDDs for State Space Search: A Case Study in Connect Four
Stefan Edelkamp, Peter Kissmann

595: Improving Cost-Optimal Domain-Independent Symbolic Planning
Peter Kissmann, Stefan Edelkamp

619: Fast parallel and adaptive updates for dual-decomposition solvers
Ozgur Sumer, Umut Acar, Alexander Ihler, Ramgopal Mettu

624: Relational Blocking for Causal Discovery
Matthew Rattigan, Marc Maier, David Jensen

626: Conjunctive Query Inseparability of OWL 2 QL TBoxes
Boris Konev, Roman Kontchakov, Michel Ludwig, Thomas Schneider, Frank Wolter, Michael Zakharyaschev

628: Core-Guided Binary Search Algorithms for Maximum Satisfiability
Federico Heras, Antonio Morgado, Joao Marques-Silva

631: Extending Classical Planning Heuristics to Probabilistic Planning with dead-ends
Florent Teichteil-Königsbuch, Vincent Vidal, Guillaume Infantes

632: A Simple and Effective Unsupervised Word Segmentation Approach
Songjian Chen, Yabo Xu, Huiyou Chang

635: Basis Function Discovery for Reinforcement Learning using Bisimulation Metrics
Gheorghe Comanici, Doina Precup

636: The influence of emotion expression on perceptions of trustworthiness in negotiation
Dimitrios Antos, Barbara Grosz, Jonathan Gratch, Celso de Melo

643: A Kernel-Based Iterative Combinatorial Auction
Sebastien Lahaie

644: M-Unit EigenAnt: An ant algorithm to find M best solutions
Sameena Shah, Jaya Deva, Ravi Kothari, Suresh Chandra

646: An Algebraic Prolog for Reasoning about Alternative Worlds
Angelika Kimmig, Guy Van den Broeck, Luc De Raedt

658: Preferred Explanations: Theory and Generation via Planning
Shirin Sohrabi, Jorge A. Baier, Sheila McIlraith

659: Parameterized Complexity of Problems in Coalitional Resource Games
Rajesh Chitnis, Vahid Liaghat

680: Extensible Automated Constraint Modelling
Ozgur Akgun, Ian Miguel, Alan M Frisch, Brahim Hnich, Christopher Jefferson

681: Markov Logic Sets
Marion Neumann, Babak Ahmadi, Kristian Kersting

684: Strategic Information Disclosure to People with Multiple Alternatives
Amos Azaria, Zinovi Rabinovich, Sarit Kraus, Claudia Goldman

685: Higher-Order Description Logics for Domain Metamodelling
Giuseppe De Giacomo, Maurizio Lenzerini, Riccardo Rosati

687: A Closer Look at the Probabilistic Description Logic Prob-EL
Jean Christoph Jung, Víctor Gutiérrez-Basulto, Lutz Carsten, Lutz Schröder

695: Deriving a Web-Scale Commonsense Fact Database
Niket Tandon, Gerard de Melo, Gerhard Weikum

703: Co-Training as a Human Collaboration Policy
Xiaojin Zhu, Bryan R Gibson, Timothy Rogers

728: Lossy Conservative Update (LCU) sketch: Succinct approximate count storage
Amit Goyal, Hal Daume III

735: Two-Dimensional Description Logics for Context-Based Semantic Interoperability
Szymon Klarman, Víctor Gutiérrez-Basulto

738: Integrating Clustering and Multi-Document Summarization by Bi-mixture PLSA with Sentence Bases
Chao Shen, Tao Li

741: Coordinated Multi-Agent Reinforcement Learning in Networked Distributed POMDPs
Zhang Chongjie, Victor Lesser

742: Exploiting Phase Transition in Similarity Networks for Clustering
Vahed Qazvinian, Dragomir R. Radev

748: On Expressing Value Externalities in Position Auctions
Florin Constantin, Malvika Rao, Chien-Chung Huang, David Parkes

749: Memory-Efficient Dynamic Programming for Learning Optimal Bayesian Networks
Brandon Malone, Changhe Yuan, Eric A Hansen, Susan Bridges

753: Learning dimensional descent for optimal motion planning in high-dimensional spaces
Paul Vernaza, Daniel D. Lee

754: Bayesian Learning of Generalized Board Positions for Improved Move Prediction in Computer Go
Martin Michalowski, Mark Boddy, Mike Neilsen

758: A Game-Theoretic Approach to Influence in Networks
Mohammad T Irfan, Luis Ortiz

761: Mechanism Design for Federated Sponsored Search Auctions
Sofia Ceppi, Nicola Gatti, Enrico Gerding

780: Utilizing Partial Policies for Identifying Equivalence of Behavioral Models
Yifeng Zeng, Prashant Doshi, Yinghui Pan, Hua Mao, Muthukumaran Chandrasekaran

787: Dominating Manipulations in Voting with Partial Information
Vincent Conitzer, Toby Walsh, Lirong Xia

791: Transfer Latent Semantic Learning: Microblog Mining with Less Supervision
Zhang Dan, Yan Liu, Richard Lawrence, Vijil Chentharamarakshan
792: Multi-level Cluster Indicator Decomposition of Matrices and Tensors
Dijun Luo, Chris Ding, Heng Huang

794: Is linear discriminant analysis (LDA) well defined? Clarification, analysis and new approaches
Dijun Luo, Chris Ding, Heng Huang

799: Across-Model Collective Ensemble Classification
Hoda Eldardiry, Jennifer Neville

805: Convex Sparse Coding, Subspace Learning, and Semi-Supervised Extensions
Yao-Liang Yu, Xinhua Zhang, Ruitong Huang, Martha White, Ozlem Aslan, Dale Schuurmans

815: Commitment to Correlated Strategies
Vincent Conitzer, Dmytro Korzhyk

834: Human Spatial Relational Reasoning: Processing Demands, Representations, and Cognitive Model
Marco Ragni, Sven Brüssow

837: Succinct set-encoding for state-space search
Tim Schmidt, Rong Zhou

841: Iterative Monotically Bounded A*
David Burkett, David Leo Wright Hall, Dan Klein

854: Qualitative Numeric Planning
Siddharth Srivastava, Shlomo Zilberstein, Neil Immerman, Hector Geffner

864: Transportability of Causal and Statistical relations: A Formal Approach
Judea Pearl, Elias Bareinboim

866: First-Order Logic with Counting for General Game Playing
Lukasz Kaiser, Lukasz Stafiniak

867: Finding answers and generating explanations for complex biomedical queries
Esra Erdem, Yelda Erdem, Halit Erdogan, Umut Oztok

872: Grammatical Error Detection for Corrective Feedback Provision in Oral Conversations
Sungjin Lee, Hyungjong Noh, Kyusong Lee, Gary Geunbae Lee

876: Co-evolution of Selection and Influence in Social Networks
Yoon-Sik Cho, Greg Ver Steeg, Aram Galstyan

884: Manipulation of Nanson's and Baldwin's rules
Nina Narodytska, Toby Walsh, Lirong Xia

891: Learning from Spatial Overlap
Michael Coen, Hidayath Ansari, Nathanael Fillmore

906: Using Semantic Cues to Learn Syntax
Tahira Naseem, Regina Barzilay

911: Solving Difficult CSPs with Relational Neighborhood Inverse Consistency
Robert Woodward, Shant Karakashian, Berthe Y. Choueiry, Christian Bessiere

912: Mean Field Inference in Dependency Networks: An Empirical Study
Daniel Lowd, Arash Shamaei

913: Reward versus Leaf-Value Heuristics in Planning Agents
Jonathan Sorg, Satinder Singh, Richard Lewis

923: VCG Redistribution with Gross Substitutes
Mingyu Guo

924: Transfer Learning by Structural Analogy
Huayan Wang, Qiang Yang

930: Planning in Domains with Cost Function Dependent Actions
Michael Phillips, Maxim Likhachev

951: Selective Transfer Between Learning Tasks Using Set-Based Boosting
Eric Eaton, Marie desJardins

960: Comparing Action-Query Strategies in Semi-Autonomous Agents
Robert Cohn, Ed Durfee, Satinder Singh

962: An Online Spectral Learning Algorithm for Partially Observable Nonlinear Dynamical Systems
Byron Boots, Geoffrey Gordon

990: A Comparison of Lex Bounds for Multiset Variables in Constraint Programming
Yat Chiu Law, Jimmy Ho Man Lee, Toby Walsh, May Hiu Chun Woo

994: S4VM: Safe Semi-Supervised Support Vector Machine
Yu-Feng Li, Zhi-Hua Zhou

998: Adaptive Large Margin Training for Multilabel Classification
Yuhong Guo, Dale Schuurmans

1025: Pushing the Power of Stochastic Greedy Ordering Schemes for Inference in Graphical Models
Kalev Kask, Rina Dechter, Andrew Gelfand, Lars Otten

1029: Stopping rules for randomized greedy triangulation schemes
Andrew Gelfand, Kalev Kask, Rina Dechter

1035: Intrinsic Chess Ratings
Kenneth Regan, Guy McC Haworth

1037: Refinement of Strong Stackelberg Equilibria in Security Games
Bo An, Milind Tambe, Fernando Ordóñez, Eric Shieh, Christopher Kiekintveld
1044: Item-Level Social Influence Prediction with Probabilistic Hybrid Factor Matrix Factorization
Peng Cui, Fei Wang, Shi-Qiang Yang

Special Track on AI and the Web

7: CCRank: Parallel Learning to Rank with Cooperative Coevolution
Shuaiqiang Wang, Byron J. Gao, Ke Wang, Hady W. Lauw

8: Creative Introspection and Knowledge Acquisition: Learning about the world thru introspective quests
Tony Veale, Guofu Li

9: Propagating Both Trust and Distrust with Target Differentiation for Combating Web Spam
Xianchao Zhang, You Wang, Nan Mou, Wenxin Liang

20: Learning to Suggest Questions in Online Forums
Tom Chao Zhou, Chin-Yew Lin, Irwin King, Michae R. Lyu, Young-In Song, Yunbo Chao

24: Generating True Relevance Labels in Chinese Search Engine Using Clickthrough Data
Song Hengjie, Chunyan Miao, Zhiqi Shen

27: Detecting Multilingual and Multi-Regional Query Intent in Web Search
Yi Chang, Ruiqiang Zhang, Srihari Reddy, Yan Liu

29: Trust Transitivity in Complex Social Networks
Liu Guanfeng, Yan Wang, Mehmet A. Orgun

35: A Whole Page Click Model to Better Interpret Search Engine Click Data
Weizhu Chen, Zhanglong Ji, Si Shen, Qiang Yang

36: Analyzing and Predicting Not-Answered Questions in Community-based Question Answering Services
Lichun Yang, Shenghua Bao, Qingliang Lin, Xian Wu, Dingyi Han, Zhong Su, Yong Yu

41: Predicting Author Blog Channels with High Value Future Posts for Monitoring
Shanchan Wu, Tamer Elsayed, William Rand, Louiqa Raschid

45: Identifying Missing Node Information in Social Networks
Avi Rosenfeld, Sarit Kraus, Ron Eyal

51: Towards Large-Scale Collaborative Planning: Answering High-Level Search Queries Using Human Computation
Edith Law, Haoqi Zhang

52: Understanding User Migration Patterns in Social Media
Shamanth Kumar, Reza Zafarani, Huan Liu

56: Towards Practical ABox Abduction in Large OWL DL Ontologies
Jianfeng Du, Guilin Qi, Yi-Dong Shen, Jeff Z. Pan
57: Heterogeneous Transfer Learning for Image Classification
Yin Zhu, Yuqiang Chen, Zhongqi Lu, Sinno Jialin Pan, Gui-Rong Xue, Yong Yu, Qiang Yang

64: Active Dual Collaborative Filtering with both Item and Attribute Feedback
Luheng He, Nathan N. Liu, Qiang Yang

66: Fast Query Recommendation by Search
Qixia Jiang, Maosong Sun

Guandong Xu, Yanhui Gu, Peter Dolog, Yanchun Zhang, Masaru Kitsuregawa

77: Temporal Dynamics of User Interests in Tagging Systems
Dawei Yin, Liangjie Hong, Zhenzhen Xue, Brian D. Davison

79: Cross-Language Latent Relational Search: Mapping Knowledge across Languages
Tuan Duc Nguyen, Danushka Bollegala, Mitsuru Ishizuka

85: User-Controllable Learning of Location Privacy Policies with Gaussian Mixture Models
Justin Cranshaw, Jonathan Mugan, Norman Sadeh

93: Personalizing your Web Services with Constructive DL Reasoning Join
Freddy Lecue

111: Continual Planning with Sensing for Web Service Composition
Eirini Kaldeli, Alexander Lazovik, Marco Aiello

135: Maximum Entropy Context Models for Ranking Biographical Answers to Open-Domain Definition Questions
Alejandro Figueroa, John Atkinson

137: Transfer Learning for Multiple-Domain Sentiment Analysis: Domain Dependent/Independent Word Polarity
Yasuhisa Yoshida, Tsutomu Hirao, Tomoharu Iwata, Masaaki Nagata, Yuji Matsumoto

138: Commonsense Causal Reasoning Using Millions of Personal Stories
Andrew Gordon, Cosmin A. Bejan, Kenji Sagae

140: Artificial Intelligence for Artificial Artificial Intelligence
Peng Dai, Mausam, Daniel Sabby Weld

168: Integrating Community Question and Answer Archives
Wei Wei, Gao Cong, Xiaoli Li, See-Kiong Ng, Guohui Li

**Special Track on Computational Sustainability and AI**

12: SMPC for the Integration of Building Usage and Temperature Regulation
Alie El-Din Mady, Gregory M. Provan, Conor Ryan, Kenneth N. Brown
14: Logistic methods for resource selection functions and presence-only species distribution models  
Steven Phillips, Jane Elith

18: The Steiner Multigraph Problem with Applications in Computational Sustainability  
Katherine Lai, Carla P. Gomes, Michael K. Schwartz, Kevin S. McKelvey, David E. Calkin, Claire A. Montgomery

21: Enforcing Liveness in Autonomous Traffic Management  
Tsz-Chiu Au, Neda Shahidi, Peter Stone

25: Verifying Intervention Policies for Infection Propagation over Networks: A Model Checking Approach  
Ganesh Ram Santhanam, Uly Suvorov, Samik Basu, Vasant Honavar

26: Linear Dynamic Programs for Resource Management  
Marek Petrik, Shlomo Zilberstein

27: Learned Behaviors of Multiple Autonomous Agents in Smart Grid Markets  
Prashant Reddy, Manuela M. Veloso

28: Policy Gradient Planning for Environmental Decision Making with Existing Simulators  
Mark Crowley, David Poole

31: Dynamic Resource Allocation in Conservation Planning  
Daniel Golovin, Andreas Krause, Beth Gardner, Sarah Converse, Steve Morey

33: Decentralised Control of Micro-Storage in the Smart Grid  
Thomas Voice, Perukrishnen Vytelingum, Sarvapali D. Ramchurn, Alex Rogers, Nicholas R Jennings

37: Efficient Energy-Optimal Routing for Electric Vehicles  
Martin F. Sachenbacher, Martin Leucker, Andreas Artmeyer, Julian Haselmayr

39: Hybrid Planning with Temporally Extended Goals for Sustainable Ocean Observing  
Hui Li, Brian Williams

40: Discovering Life Cycle Assessment Trees from Impact Factor Databases  
Debprakash Patnaik, Naren Ramakrishnan, Manish Marwah, Amip Shah

42: Water conservation through facilitation on residential landscapes  
Rhonda Hoenigman, Elizabeth Bradley, Nichole Barger

46: Incorporating boosted regression trees into ecological latent variable models  
Rebecca Hutchinson, Li-Ping Liu, Thomas G. Dietterich

50: A large-scale study on predicting and contextualizing building energy usage  
J. Zico Kolter, Joseph Ferreira

58: Towards optimal crop disease surveillance  
John Alexander Quinn, Kevin Leyton-Brown, Ernest Mwebaze
59: Green Driver: AI in a Microcosm
Matthew L. Ginsberg, Erin Keenan, Jim Apple, Paul Chang, Aran Clauson, Heidi Dixon, Hiba Fakhoury, Alex Leighton, Kevin Scavezze, Bryan Smith

Special Track on Integrated Intelligence

8: Cognitive Synergy in the OpenCog Architecture as Applied to the Intelligent Control of Animated and Robotic Agents
Ben Goertzel, Joel Pitt, Jared Wigmore, Nil Geisweiller, Zhenhua Cai, Ruiting Lian, Deheng Huang, Gino Yu

11: Cross Media Entity Extraction and Linkage for Chemical Documents
Su Yan, Scott Spangler, Ying Chen

24: Contextually-Based Utility: An Appraisal-Based Approach at Modeling Framing and Decisions
Jonathan Yasuo Ito, Stacy Marsella

26: Combining Learned Relational and Continuous Action Models
Joseph Z. Xu, John E. Laird

32: Analogical Dialogue Acts: Supporting Learning by Reading Analogy in Instructional Texts
David Michael Barbella, Kenneth D. Forbus

Special Track on Physically Grounded AI

7: DISCO: Describing Images Using Scene Contexts and Objects
Ifeoma Nwogu, Yingbo Zhou, Christopher Brown

12: Autonomous Skill Acquisition on a Mobile Robot
George Konidaris, Scott Kuindersma, Roderic Grupen, Andrew Barto

22: A Scalable Tree-based Approach for Joint Object and Pose Recognition
Kevin Lai, Liefeng Bo, Xiaofeng Ren, Dieter Fox

28: Understanding Natural Language Commands for Robotic Navigation and Mobile Manipulation
Stefanie Tellex, Thomas Kollar, Steven Dickerson, Matthew Walter, Ashis Banerjee, Seth Teller, Nicholas Roy

39: Balancing Safety and Exploitability in Opponent Modeling
Zhikun Wang, Abdeslam Boularias, Katharina Muelling, Jan R Peters

50: Continuous Occupancy Mapping with Integral Kernels
Simon O'Callaghan, Fabio T. Ramos

53: Large Scale, Efficient Traffic Planning Using Routing History
David Wilkie, Jur van den Berg, Ming Lin, Dinesh Manocha

54: Multi-Observation Sensor Resetting Localization with Ambiguous Landmarks
Brian Coltin, Manuela Veloso
60: Learning Accuracy and Availability of Humans who Help Mobile Robots
Stephanie Rosenthal, Manuela Veloso, Anind Dey

75: Recognizing Text Through Sound Alone
Wenzhe Li, Tracy Hammond

**NECTAR (New Scientific and Technical Advances in Research) Track**

19: The next best solution
Ronen Brafman, Enrico Pilotto, Francesca Rossi, Domenico Salvagnin, K. Brent Venable, Toby Walsh

20: A POMDP-based Optimal Control of P300-based Brain-Computer Interfaces
Jaeyoung Park, Kee-Eung Kim, Yoon-Kyu Song

24: Quantity Makes Quality: Learning with Partial Views
Nicolò Cesa-Bianchi, Shai Shalev-Shwartz, Ohad Shamir

25: Design and Analysis of Value Creation Networks
Kameshwaran Sampath, Sameep Mehta, Vinayaka Pandit

26: Planning with Specialized SAT Solvers
Jussi Rintanen

27: End-User Feature Labeling via Locally Weighted Logistic Regression
Weng-Keen Wong, Ian Oberst, Shubhomoy Das, Travis Moore, Simone Stumpf, Kevin McIntosh, Margaret Burnett

28: Global seismic monitoring: A Bayesian approach
Nimar Arora, Stuart Russell, Paul Kidwell, Erik Sudderth

30: Recommendation Sets and Choice Queries: There Is No Exploration/Exploitation Tradeoff!
Paolo Viappiani, Craig Boutilier

32: Effective End-User Interaction with Machine Learning
Saleema Amershi, James Fogarty, Ashish Kapoor, Desney Tan

35: New Expressive Languages for Ontological Query Answering
Andrea Cali, Georg Gottlob, Andreas Pieris

36: Two Visual Strategies for Solving the Ravenís Progressive Matrices Intelligence Test
Maithilee Kunda, Keith McGregor, Ashok Goel

37: Termination and Correctness Analysis of Cyclic Control
Siddharth Srivastava, Neil Immerman, Shlomo Zilberstein