13th Pacific Rim International Conference on Artificial Intelligence
17th International Conference on Principles and Practice of Multi-Agent Systems

PROGRAM AT A GLANCE

	Ballroom 1	Ballroom 2	Ballroom 3	Meeting Rooms

MONDAY 1st DECEMBER

8:30am-10:00am	Welcome **Keynote Address - Frank Dignum**	Workshop 1: PKAW 2014	Tutorial 1: CSS	Workshop 2: IWEC 2014
10:00am-10:30am	Morning Tea			
10:30am-12:00pm	PRIMA Patter	Workshop 1: PKAW 2014	Tutorial 1: CSS	Workshop 2: IWEC 2014
12:00pm-1:30pm	Lunch			
1:30pm-3:00pm	PRIMA Session 1	Workshop 1: PKAW 2014	Tutorial 1: CSS	Workshop 2: IWEC 2014
3:00pm-3:30pm	Afternoon Tea			
3:30pm-5:00pm	PRIMA Session 2	Workshop 1: PKAW 2014		

TUESDAY 2nd DECEMBER

8:30am-10:00am	PRIMA Session 3	Workshop 1: PKAW 2014	Tutorial 2: SRWVRS	Workshop 3: MLSDA 2014
10:00am-10:30am	Morning Tea			
10:30am-12:00pm	PRIMA Session 4	Workshop 1: PKAW 2014	Tutorial 2: SRWVRS	Workshop 3: MLSDA 2014
12:00pm-1:30pm	Lunch			
1:30pm-3:00pm	PRIMA Session 5	Workshop 1: PKAW 2014	Tutorial 2: SRWVRS	Workshop 3: MLSDA 2014
3:00pm-3:30pm	Afternoon Tea			
3:30pm-5:00pm	PRICAI/PRIMA Formal Welcome **Keynote Address - Pascal Poupart**			
Evening	WELCOME RECEPTION			

WEDNESDAY 3rd DECEMBER

8:30am-9:30am	**Keynote Address - Mary-Anne Williams**			
9:30am-10:00am	Morning Tea			
10:00am-12:00pm	PRICAI Session 1	PRICAI Session 2	PRIMA Session 6	
12:00pm-1:00pm	Lunch			
1:00pm-3:00pm	PRICAI Session 3	PRICAI Session 4		PRIMA Demo & Poster Session
3:00pm-3:30pm	Afternoon Tea			
3:30pm-5:00pm	PRICAI Session 5	PRICAI Session 6	PRIMA Panel Discussion and Closing	
Evening	OFFSITE – CONFERENCE DINNER AND AWARDS			

THURSDAY 4th DECEMBER

8:30am-9:30am	**Keynote Address : Kevin Leyton-Brown**			Workshop 4: COIN
9:30am-10:00am	Lightning Presentations for PRICAI posters			
10:00am-10:30am	Morning Tea			
10:30am-12:00pm	PRICAI Session 7	PRICAI Session 8 - Health Track	PRICAI Session 9 - Robotics Track	Workshop 4: COIN
12:00pm-1:30pm	Poster Session and Lunch (lunch served 30 mins after start of session)			
1:30pm-3:00pm	PRICAI Session 10	PRICAI Session 11	PRICAI Session 12	Workshop 4: COIN
3:00pm-3:30pm	Afternoon Tea			
3:30pm-5:00pm	PRICAI Session 13	PRICAI Session 14	PRICAI Session 15	

FRIDAY 5th DECEMBER

8:15am-8:30am	PRICAI 2016 Announcement			
8:30am-9:30am	**Keynote Address : Wai Kiang (Albert) Yeap**			Tutorial 3 : AIMLQC
9:30am-10:00am	Lightning Presentations for PRICAI posters			
10:00am-10:30am	Morning Tea			
10:30am-12:00pm	PRICAI Session 16	PRICAI Session 17 – Mod Simul Track	PRICAI Session 18	Tutorial 3 : AIMLQC
12:00pm-1:30pm	Poster Session and Lunch (lunch served 30 mins after start of session)			
1:30pm-3:00pm	PRICAI Session 19	PRICAI Session 20 – Mod Simul Track	PRICAI Session 21	Workshop 5: AIMLQC 2014
3:00pm-3:30pm	Afternoon Tea			
3:30pm-5:00pm	PRICAI Session 22	PRICAI Session 23	PRICAI Session 24	Workshop 5: AIMLQC 2014

Workshop 1 : The International Workshop on Knowledge Management and Acquisition for Intelligent Systems (PKAW 2014)
Workshop 2 : The 5th International Workshop on Empathic Computing (IWEC 2014)
Workshop 3 : The 2nd International Workshop on Machine Learning for Sensory Data Analysis (MLSDA 2014)
Workshop 4 : 18th Int. Workshop on Coordination, Organisations, Institutions and Norm (COIN 2014)
Workshop 5 : International Workshop on Artificial Intelligence and Machine Learning Applied to Quantum Computing (AIMLQC 2014)
Tutorial 1 : Computational Social Choice (CSS)
Tutorial 2 : Solving Real-World Vehicle Routing Problems (SRWVRS)
Tutorial 3 : Tutorial on Artificial Intelligence and Machine Learning in Quantum Computing (AIMLQC)

KEYNOTE SPEAKERS

Monday : Frank Dignum

Assoc. Professor Dignum is a leading researcher in the field of social aspects of multi-agent systems. He has contributed in the fields of agent communication, normative agent systems, agents for electronic commerce and agents for social simulation and serious gaming over the past two decades. He has a particular interest in bridging the gap between developing theoretical frameworks and practical tools. He has accumulated around 8.5M euro in research projects both nationally as well as EU funded. He is associate editor of the Journal of Autonomous Agents and Multi Agents Systems, and been co-organizer of the Autonomous Agents and Multi Agent Systems conference and has been general chair, program chair and co-organizer of numerous workshops and conferences, including the International Conference on Practical Aspects of Agents and Multi Agent Systems, the PRIMA conference and the International Conference on Electronic Conference.

Tuesday : Pascal Poupart

Pascal Poupart is currently a Visiting Scholar at Huawei Noah's Ark Lab in Hong Kong and an Associate Professor in the David R. Cheriton School of Computer Science at the University of Waterloo, Waterloo (Canada). He received the B.Sc. in Mathematics and Computer Science at McGill University, Montreal (Canada) in 1998, the M.Sc. in Computer Science at the University of British Columbia, Vancouver (Canada) in 2000 and the Ph.D. in Computer Science at the University of Toronto, Toronto (Canada) in 2005. His research focuses on the development of algorithms for reasoning under uncertainty and machine learning with application to Assistive Technologies and Natural Language Processing. He is most well-known for his contributions to the development of approximate scalable algorithms for partially observable Markov decision processes (POMDPs) and their applications in real-world problems, including automated prompting for people with dementia for the task of handwashing and spoken dialog management. Other notable projects that his research team are currently working on include chatbots for automated personalized conversations and a wearable sensor system to monitor and prompt users to participate in non-sedentary activities.

Pascal Poupart received the Early Researcher Award, a competitive honor for top Ontario researchers, awarded by the Ontario Ministry of Research and Innovation in 2008. He was also a co-recipient of the Best Paper Award Runner Up at the 2008 Conference on Uncertainty in Artificial Intelligence (UAI) and the IAPR Best Paper Award at the 2007 International Conference on Computer Vision Systems (ICVS). He served on the editorial board of the Journal of Artificial Intelligence Research (JAIR) (2008 - 2011) and the Journal of Machine Learning Research (JMLR) (2009 - present). His research collaborators include Google, Intel, Huawei, Kik Interactive, In the Chat, Slyce.it, the Alzheimer Association, the UW-Schlegel Research Institute for Aging, Sunnybrook Health Science Centre, the Toronto Rehabilitation Institute and the Intelligent Assistive Technology and Systems Laboratory at the University of Toronto.

Wednesday : Mary-Anne Williams

Professor Mary-Anne Williams is listed on the Robohub's top 25 women in robotics. She has a PhD in Computer Science and a Masters in Law. Mary-Anne is an ACS Fellow and leading authority on Knowledge Representation and Reasoning with transdisciplinary strengths in AI, Social Robotics, Cognitive Robotics, Machine Learning, IP Law and Privacy Law. She is Director of the Magic Lab at the University of Technology, Sydney (UTS); a Fellow in the Stanford University Centre for Legal Informatics; Guest Professor at the University of Science and Technology China. Mary-

Anne chaired the Australian Research Council's Excellence in Research for Australia Committee that undertook a national evaluation of research in Mathematics, Information and Computing Sciences in 2012. She was Conference Chair of the International Conference on Social Robotics in 2014, and is Review Editor for the prestigious Artificial Intelligence Journal, serves on the Editorial Board for AAAI/MIT Press, the Information Systems Journal and the ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics.

Mary-Anne has a passion for innovation, science, technology and engineering. She established and continues to lead the UTS Robot Soccer team and the UTS Social Robotics Project that aims to explore how Australia's only PR2 robot, whose crowdsourced name is Gutsy, can develop social intelligence in its dealings with humans. She works with her research team, which includes Steve Wozniak, Peter Gardenfors and Henri Prade in the Magic Lab to bring science fiction to reality; the research goal is to design autonomous technologies that can learn, adapt, and that entertain and collaborate with people.

Thursday : Kevin Leyton-Brown

Kevin Leyton-Brown is a professor of computer science at the University of British Columbia. He holds a PhD and M.Sc. from Stanford University (2003; 2001) and a B.Sc. from McMaster University (1998). He studies the intersection of computer science and microeconomics, addressing computational problems in economic contexts and incentive issues in multiagent systems. He also applies machine learning to the automated design and analysis of algorithms for solving hard computational problems.

He has co-written two books, "Multiagent Systems" and "Essentials of Game Theory," and over 100 peer-refereed technical articles; his work has received over 5,000 citations and an h-index of 32. He is the recipient of a 2014 NSERC E.W.R. Steacie Memorial Fellowship—previously given to a computer scientist only 10 times since its establishment in 1965—and a 2013 Outstanding Young Computer Science Researcher Prize from the Canadian Association of Computer Science. He and his coauthors have received paper awards from JAIR, ACM-EC, AAMAS and LION, and numerous medals for the portfolio-based SAT solver SATzilla at international SAT competitions (2003-12).

He serves as an associate editor for the Artificial Intelligence Journal (AIJ), ACM Transactions on Economics and Computation (ACM-TEAC), and AI Access; serves as an advisory board member for the Journal of Artificial Intelligence Research (JAIR, after serving as associate editor for two 4-year terms), and was program chair for the ACM Conference on Electronic Commerce (ACM-EC) in 2012. He has co-taught two Coursera courses on "Game Theory" to over 300,000 students, and has received awards for his teaching at UBC—notably, a 2013/14 Killam Teaching Prize. He split his 2010-11 sabbatical between Makerere University in Kampala, Uganda, and the Institute for Advanced Studies at Hebrew University of Jerusalem, Israel. He currently advises Auctionomics, Inc. (and through them, the Federal Communications Commission), Zynga, Inc., and Qudos, Inc. He is a co-founder of Kudu.ug and a new UBC spinoff, Meta-Algorithmic Technologies. In the past, he served as a consultant for Trading Dynamics Inc., Ariba Inc., Cariocas Inc., and was scientific advisor to UBC spinoff Zite Inc. until it was acquired by CNN in 2011.

Friday : Wai Kiang (Albert) Yeap

Professor Wai Yeap is the Director of the Centre for Artificial Intelligence Research at AUT University, New Zealand. He has strong interests in developing computational theories for spatial cognition, infants' learning of language and learning with original intent.

DETAILED SESSION INFORMATION – PRIMA 2014

MONDAY 1st DECEMBER

8:30am-10:00am	**PRIMA PATTER** **Session Chair : TBA** Lightning 2' talks by every presenter - 2 slides, 2 minutes. Program TBA
1:30pm-3:00pm	**PRIMA SESSION 1 : Self Organization & Social Networks/Crowdsourcing** **Session Chair : TBA** PosoMAS: An Extensible, Modular SE Process for Open Self-organising Systems *Jan-Philipp Steghöfer, Hella Seebach, Benedikt Eberhardinger and Wolfgang Reif* Experiments with Social Capital in Multi-Agent Systems *Patricio Petruzzi, Dídac Busquets and Jeremy Pitt* Intermediary-based Self-Organizing Mechanism in Multi-Agent Systems *Mengzhu Zhang, Yifeng Zhou and Yichuan Jiang* Estimating the Degrees of Neighboring Nodes in Online Social Networks *Jooyoung Lee and Jae C. Oh* Convention Propagation in Multi-Layer Social Networks *Smitha Keertipati, Bastin Tony Roy Savarimuthu and Maryam Purvis* Efficient Task Decomposition in Crowdsourcing *Huan Jiang and Shigeo Matsubara*
3:30pm-5:00pm	**PRIMA SESSION 2 : Norms, Games & Social Choice** **Session Chair : TBA** Modelling Dynamic Normative Understanding in Agent Societies *Christopher Frantz, Martin Purvis, Bastin Tony Roy Savarimuthu and Mariusz Nowostawski* Norms Assimilation in Heterogeneous Agent Community *Moamin Mahmoud, Mohd Sharifuddin Ahmad, Zaliman Yusoff and Aida Mustapha* Computing a Payoff Division in the Least Core for MC-nets Coalitional Games *Katsutoshi Hirayama, Kenta Hanada, Suguru Ueda, Makoto Yokoo and Atsushi Iwasaki* Marginal Contribution Stochastic Games for Dynamic Allocation in Load–Side Power Systems Control *Archie Chapman and Pradeep Varakantham* Judgment Aggregation with Abstentions under Voters' Hierarchy *Guifei Jiang, Dongmo Zhang and Laurent Perrussel* A Social Trust Model Considering Trustees' Influence *Jianping Mei, Han Yu, Yong Liu, Zhiqi Shen and Chunyan Miao*

TUESDAY 2nd DECEMBER

8:30am-10:00am	**PRIMA Session 3 : Simulation and Assurance** **Session Chair : TBA** Development of Traffic Simulator based on Stochastic Transmission Model for Urban Network *Sho Tokuda, Ryo Kanamori and Takayuki Ito* A scalable workbench for large urban area simulations, comprised of resources for behavioural models, interactions and dynamic environments *Leonel Enrique Aguilar Melgar, Maddegedara Lalith, Hori Muneo, Tsuyoshi Ichimura and Seizo Tanaka* Synthetic Population Initialization and Evolution- Agent-Based Modelling of Population Aging and Household Transitions *Mohammad-Reza Namazi-Rad, Nam Huynh, Johan Barthelemy and Pascal Perez* Intelligent Collision Avoidance between Autonomous Agents using Adaptive Local Views *Fan Liu and Ajit Narayanan* Locating Malicious Agents in Mobile Wireless Sensor Networks *Yuichi Sei and Akihiko Ohsuga*
10:30am-12:00pm	**PRIMA Session 4 : Interaction & Applications** **Session Chair : TBA** Improving simulation of continuous emotional facial expressions by analyzing videos of human facial activities *Thi Duyen Ngo, Thi Hong Nhan Vu, Viet Ha Nguyen and The Duy Bui* Adaptive User Interface Agent for Personalized Public Transportation Recommendation System: PATRASH *Hiroyuki Nakamura, Yuan Gao, He Gao, Hongliang Zhang, Akifumi Kiyohiro and Tsunenori Mine* An Agent-Based Serious Game for dCES *Aikaterini Bourazeri and Jeremy Pitt* RETRACT: REcognising lifecycle TRansitions of complex ACTivities - a diabetes case study *Ozgur Kafali, Alfonso Romero and Kostas Stathis* An Extended Agent Based Model for Service Delivery Optimization *Mohammadreza Mohagheghian and Aditya Ghose* A Dynamic Route-exchanging Mechanism for Anticipatory Traffic Management *Ryo Kanamori and Takayuki Ito*

1:30pm-3:00pm	**PRIMA Session 5 : Logic & Argumentation** **Session Chair : TBA** --- On the equivalence of Defeasible Deontic Logic and Temporal Defeasible Logic *Guido Governatori and Marc Allaire* --- Multi-Agency Is Coordination And (Limited) Communication *Thomas Ågotnes, Wojtek Jamroga and Piotr Kaźmierczak* --- Bounded Model Checking for Weighted Interpreted Systems and for Flat Weighted Epistemic Computation Tree Logic *Bozena Wozna-Szczesniak, Andrzej Zbrzezny, Agnieszka Zbrzezny and Ireneusz Szcześniak* --- Assumption-Based Argumentation Equipped with Preferences *Toshiko Wakaki* --- Approximating Constraint-based Utility Spaces using Generalized Gaussian Mixture Models *Rafik Hadfi and Takayuki Ito* --- Deliberative Argumentation for Smart Environments *Juan Carlos Nieves, Esteban Guerrero, Jayalakshmi Baskar and Helena Lindgren*

WEDNESDAY 3rd DECEMBER

10:00am-12:00pm	**PRIMA Session 6 : Metrics, Optimisation, Negotiation & Learning** **Session Chair : TBA** --- Continuous Approximation of a Discrete Situated and Reactive Multi-Agent System : Contribution to Agent Parametrisation *Simon Stuker, Francoise Adreit, Jean-Marc Couveignes and Marie-Pierre Gleizes* --- An Analysis of Interdependence in Multiagent Systems *Ronal Singh, Tim Miller and Liz Sonenberg* --- Local Search Based Approximate Algorithm for Multi-Objective DCOP *Maxime Wack, Tenda Okimoto, Maxime Clement and Katsumi Inoue* --- Multi-Objective Distributed Constraint Optimization using Semi-Rings *Graham Billiau, Chee Fon Chang and Aditya Ghose* --- Leximin Multiple Objective Optimization for Preferences of Agents *Toshihiro Matsui, Marius Silaghi, Katsutoshi Hirayama, Makoto Yokoo and Hiroshi Matsuo* --- Compromising Adjustment based on Conflict Mode for Multi-times Bilateral Closed Nonlinear Negotiations *Katsuhide Fujita* --- Autonomous Strategy Determination with Learning of Environments in Multi-Agent Continuous Cleaning *Ayumi Sugiyama and Toshiharu Sugawara*
1:00pm-3:00pm	**PRIMA Demo & Poster Session** **Session Chair : TBA** --- Computing a Payoff Division in the Least Core for MC-nets Coalitional Games *Katsutoshi Hirayama, Kenta Hanada, Suguru Ueda, Makoto Yokoo and Atsushi Iwasaki* --- Estimating the Degrees of Neighboring Nodes in Online Social Networks *Jooyoung Lee and Jae C. Oh* --- Continuous Approximation of a Discrete Situated and Reactive Multi-Agent System : Contribution to Agent Parametrisation *Simon Stuker, Francoise Adreit, Jean-Marc Couveignes and Marie-Pierre Gleizes* --- Development of Traffic Simulator based on Stochastic Cell Transmission Model for Urban Network *Sho Tokuda, Ryo Kanamori and Takayuki Ito* --- Improving simulation of continuous emotional facial expressions by analyzing videos of human facial activities *Thi Duyen Ngo, Thi Hong Nhan Vu, Viet Ha Nguyen and The Duy Bui* --- PosoMAS: An Extensible, Modular SE Process for Open Self-organising Systems *Jan-Philipp Steghöfer, Hella Seebach, Benedikt Eberhardinger and Wolfgang Reif* --- Multi-Agency Is Coordination And (Limited) Communication *Piotr Kaźmierczak, Thomas Ågotnes and Wojtek Jamroga* --- Approximating Constraint-based Utility Spaces using Generalized Gaussian Mixture Models *Rafik Hadfi and Takayuki Ito* --- Experiments with Social Capital in Multi-Agent Systems *Patricio Petruzzi, Dídac Busquets and Jeremy Pitt* --- Leximin Multiple Objective Optimization for Preferences of Agents *Toshihiro Matsui, Marius Silaghi, Katsutoshi Hirayama, Makoto Yokoo and Hiroshi Matsuo* --- Marginal Contribution Stochastic Games for Dynamic Resource Allocation *Archie Chapman and Pradeep Varakantham* --- Modelling Dynamic Normative Understanding in Agent Societies *Christopher Frantz, Martin Purvis, Bastin Tony Roy Savarimuthu and Mariusz Nowostawski*
3:30pm-5:00pm	**PRIMA Panel Discussion and Closing** **Session Chair : TBA** --- Program TBA

DETAILED SESSION INFORMATION – PRICAI 2014

Wednesday 3rd DECEMBER

10:30am-12:00pm	**PRICAI Session 1: Data Mining & Knowledge Discovery I** **Session Chair : TBA** Detecting Keyphrases in Micro-blogging with Graph Modeling of Information Diffusion *Shuangyong Song, Yao Meng and Jun Sun* Improved Feature Transformations for Classification using Density Estimation *Yamuna Kankanige and James Bailey* Quantum computing for pattern classification *Maria Schuld, Ilya Sinayskiy and Francesco Petruccione* Efficient Probabilistic Frequent Itemset Mining in Big Sparse Uncertain Data *Jing Xu, Ning Li, Xiaojiao Mao and Yu-Bin Yang*	**PRICAI Session 2: Knowledge Representation I** **Session Chair : TBA** On Efficient Evolving Multi-Context Systems *Matthias Knorr, Ricardo Gonçalves and Joao Leite* Region-based Object Categorisation using Relational Learning *Reza Farid and Claude Sammut* Hierarchical Meta-Rules for Scalable Meta-Learning *Quan Sun and Bernhard Pfahringer* Polynomially Bounded Forgetting *Yi Zhou*
1:30pm-3:00pm	**PRICAI Session 3: Data Mining & Knowledge Discovery II** **Session Chair : TBA** Competitive Learning with Pairwise Constraints for Text *Muktamala Chakrabarti and Asim Kumar Pal* Combining Career Progression and Profile Matching in a Job Recommender System *Bradford Heap, Alfred Krzywicki, Wayne Wobcke, Mike Bain and Paul Compton* BEST : An Efficient Algorithm for Mining Frequent Unordered Embedded Subtrees *Israt Jahan Chowdhury and Richi Nayak* Constructing Consumer-Oriented Medical Terminology from the Web: A Supervised Classifier Ensemble Approach *Wei Liu, Harrison Sweeney, Bo Chung and David Glance*	**PRICAI Session 4: Knowledge Representation II** **Session Chair : TBA** Complexity of Exploiting Privacy Violations in Strategic Argumentation *Michael Maher* Evaluation of Terminological Schema Matching and Its Implications for Schema Mapping *Sarawat Anam, Yang Sok Kim, Byeong Ho Kang and Qing Liu* On Adding Inverse Features to the Description Logic CFD∀nc *David Toman and Grant Weddell* Tracking Perceptually Indistinguishable Objects using Spatial Reasoning *Xiaoyu Ge and Jochen Renz*
3:30pm-5:00pm	**PRICAI Session 5: Belief Revision** **Session Chair : TBA** A Topological Characterisation of Belief Revision Over Infinite Propositional Languages *Hua Meng and Sanjiang Li* A Game Model with Private Goal and Belief *Guihua Wu, Xudong Luo and Qiaoting Zhong* Probabilistic Belief Revision via Imaging *Kinzang Chhogyal, Abhaya Nayak, Rolf Schwitter and Abdul Sattar*	**PRICAI Session 6: Probabilistic Planning / Bayesian Network** **Session Chair : TBA** A More Expressive Behavioral Logic for Decision-Theoretic Planning *Charles Gretton* OPVI: A Probability-based Optimal Policy Value Iteration Algorithm *Liu Feng and Luo Bin* Intrinsic Learning of Dynamic Bayesian Networks *Alex Black, Kevin Korb and Ann Nicholson*

Thursday 4th DECEMBER

`9:30am-10:00am	**Lightning Presentations for PRICAI posters** Program TBA		
10:30am-12:00pm	**PRICAI Session 7: Optimization I** **Session Chair : TBA** Amino Acids Pattern-Biased Spiral Search for Protein Structure Prediction *Mahmood A. Rashid, Md. Masbaul Alam Polash, M.A.Hakim Newton, Md Tamjidul Hoque and Abdul Sattar* Pivot-based Bilingual Dictionary Extraction from Multiple Dictionary Resources *Mairidan Wushouer, Donghui Lin, Toru Ishida and Katsutoshi Hirayama* Constraint-Based Evolutionary Local Search for Protein Structures with Secondary Motifs *Swakkhar Shatabda, M.A.Hakim Newton and Abdul Sattar*	**PRICAI Session 8: Intelligent Health Services** **Session Chair : TBA** Load Balancing for Imbalanced Data Sets: Classifying Scientific Artefacts for Evidence Based Medicine *Hamed Hassanzadeh, Tudor Groza, Anthony Nguyen and Jane Hunter* Modeling the Tail of a Hyperexponential Distribution to Detect Abnormal Periods of Inactivity in Older Adults *Masud Moshtaghi and Ingrid Zukerman* Predicting Procedure Duration to Improve Scheduling of Elective Surgery *Zahra Shahabi Kargar, Sankalp Khanna, Norm Good, Abdul Sattar, James Lind and John O'Dwyer*	**PRICAI Session 9: Commonsense Cognitive Robotics** **Session Chair : TBA** Online Agent Logic Programming with oClingo *Timothy Cerexhe, Martin Gebser and Michael Thielscher* Grounding Dynamic Spatial Relations for Embodied (Robot) Interaction *Michael Spranger, Jakob Suchan, Mehul Bhatt and Manfred Eppe*
12:00pm-1:30pm	**PRICAI Poster Session 1** Relational Agents to promote eHealth Advice Adherence *Scott Baker, Deborah Richards and Patrina Caldwell* Predicting Consumer Familiarity with Health Topics by Query formulation and Search Result Interaction *Ira Puspitasari, Ken-Ichi Fukui, Koichi Moriyama and Masayuki Numao* Fast Learning of Deep Neural Networks via Singular Value Decomposition *Chenghao Cai, Dengfeng Ke, Yanyan Xu and Kaile Su*		

	A Simple Approach to Solving Cooperative Path-Finding as Propositional Satisfiability Worked Well *Pavel Surynek* --- Gene Selection Based on Supervised Vector Representation of Genes *Tian Yu, Fei Gao, Han Jin and Jinmao Wei* --- Wallace: Incorporating Search into Chatting *Alexandre Sawczuk Da Silva, Xiaoying Gao and Peter Andreae* --- Symbiotic Evolution to Generate Chord Progression Consisting of Four Parts for a Music Composition System *Noriko Otani, Shoko Shirakawa and Masayuki Numao* --- Dialogue Management in Spoken Dialogue System with Visual Feedback *Wendong Ge and Bo Xu* --- Content-Based Readability Assessment: A Study Using A Syllabic Alphabetic Language (Thai) *Nattapong Tongtep, Frans Coenen and Thanaruk Theeramunkong* --- Quantified Coalition Logic for BDI-agents: Completeness and Complexity *Qingliang Chen, Qun Li, Kaile Su and Xiangyu Luo*		
1:30pm-3:00pm	**PRICAI Session 10: Optimization II** **Session Chair : TBA** --- Towards Optimal Lifetime in Wireless Sensor Networks for QoS Guaranteed Service Selection *Endong Tong, Lan Chen and Ying Li* --- Reasoning about Constraint Models *Christian Bessiere, Emmanuel Hebrard, George Katsirelos, Zeynep Kiziltan, Nina Narodytska and Toby Walsh* --- A Multi-objective Genetic Algorithm for Model Selection for Support Vector Machines. *Amal Bouraoui, Yassine Benayed and Salma Jamoussi*	**PRICAI Session 11: Knowledge Acquisition I** **Session Chair : TBA** --- Analyzing Mediator-Activity Effects for Trust-Network Evolution in Social Media *Keito Hatta, Masahito Kumano, Masahiro Kimura, Kazumi Saito, Kouzou Ohara and Hiroshi Motoda* --- Similarity Search by generating pivots based on Manhattan distance *Eri Kobayashi, Takayasu Fushimi, Kazumi Saito and Tetsuo Ikeda* --- MDSR: An Eigenvector Approach to Core Analysis of Multiple Directed Graphs *Shoko Kato, Kazumi Saito, Kazuhiro Kazama and Tetsuji Satoh*	**PRICAI Session 12: Machine Learning & Applications I** **Session Chair : TBA** --- Fast BMU Search in SOMs Using Random Hyperplane Trees *César A. Astudillo and B. John Oommen* --- Detection of Rain in Acoustic Recordings of the Environment *Meriem Ferroudj, Anthony Truskinger, Michael Towsey, Liang Zhang, Jinglan Zhang and Paul Roe* --- Reliable Fault Diagnosis of Low-Speed Bearing De-fects using a Genetic Algorithm *Phuong Nguyen, Myeongsu Kang, Jaeyoung Kim and Jong-Myon Kim*
3:30pm-5:00pm	**PRICAI Session 13: Optimization III** **Session Chair : TBA** --- Subpopulation Diversity Based Setting Success Rate of Migration for Distributed Evolutionary Algorithms *Chengjun Li, Zhe Chen, Shuhua Gu, Muqing Li, Hongyuan Shan and Guangdao Hu* --- A Weighted Minimum Distance Using Hybridization of Particle Swarm Optimization and Bacterial Foraging *Muhammad Marwan Muhammad Fuad* --- Rotation-based Learning: A Novel Extension of Opposition-based Learning *Liu Huichao, Wu Zhijian, Li Huanzhe, Wang Hui, Rahnamayan Shahryar and Deng Changshou*	**PRICAI Session 14: Knowledge Acquisition II** **Session Chair : TBA** --- Semantic Interpretation of Requirements through Cognitive Grammar and Configuration *Matt Selway, Markus Stumptner and Wolfgang Mayer* --- An Assessment of Online Semantic Annotators for the Keyword Extraction Task *Ludovic Jean-Louis, Amal Zouaq, Michel Gagnon and Faezeh Ensan* --- The Role of Linked Data in Content Selection *Rivindu Perera and Parma Nand*	**PRICAI Session 15: Machine Learning & Applications II** **Session Chair : TBA** --- Efficient Vehicle Localization Based on Road-boundary Maps *Dawei Zhao, Tao Wu, Yuqiang Fang, Ruili Wang, Jing Dai and Bin Dai* --- A Personalized Gesture Interaction System with User Identification Using Kinect *Haikuo Zhang, Wenjun Wu and Yihua Lou* --- Cortically-Inspired Overcomplete Feature Learning for Colour Images *Benjamin Cowley, Adam Kneller and John Thornton*

FRIDAY 5th DECEMBER

`9:30am-10:00am	**Lightning Presentations for PRICAI posters** Program TBA		
10:30am-12:00pm	**PRICAI Session 16: Natural Language Processing I** **Session Chair : TBA** --- Exploiting Description Knowledge for Keyphrase Extraction *Fang Wang, Zhongyuan Wang, Senzhang Wang and Zhoujun Li* --- A HMM POS Tagger for Micro-Blogging Type Texts *Parma Nand, Ramesh Lal and Rivindu Perera* --- DRWS: A Model for Learning Distributed Representations for Words and Sentences *Chunwei Yan, Fan Zhang and Lian'En Huang*	**PRICAI Session 17: Smart Modelling & Simulation I** **Session Chair : TBA** --- Task-based Wireless Mobile Agents Search and Deployment for Ad hoc Networks Establishment in Disaster Environments *Xing Su, Minjie Zhang and Quan Bai* --- From a Local to a Global Perspective of Community Detection in Networks *Jiamou Liu and Ziheng Wei* --- Managing Parking Fees based on Massive Parking Accounting Data *Yuichi Enoki, Ryo Kanamori and Takayuki Ito*	**PRICAI Session 18: Applications I** **Session Chair : TBA** --- An Eye-Tracking Study of User Behavior in Web Image Search *Wanxuan Lu and Yunde Jia* --- Privacy Preserving in Location Data Release: A Differential Privacy Approach *Ping Xiong, Tianqing Zhu, Lei Pan, Wenjia Niu and Gang Li* --- IR Stereo Kinect: Improving Depth Images by Combining Structured Light with IR Stereo *Faraj Alhwarin, Alexander Ferrein and Ingrid Scholl*

12:00pm-1:30pm	**PRICAI Poster Session 2** Using Asymmetric Associations for Commonsense Causality Detection *Shahida Jabeen, Xiaoying Gao and Peter Andreae* A Community-Based Collaborative Filtering System Dealing with Sparsity Problem and Data Imperfections *Van-Doan Nguyen andVan-Nam Huynh* Effect of Weighting Factors and Unit-Selection Factors on Text Summarization *Nongnuch Ketui and Thanaruk Theeramunkong* Domain Adaptive Neural Networks for Object Recognition *Muhammad Ghifary, W. Bastiaan Kleijn and Mengjie Zhang* A correlation based imputation method for incomplete traffic accident data *Rupam Deb, Alan Wee-Chung Liew and Erwin Oh* A Method to Divide Stream Data of Scores over Review Sites *Yuki Yamagishi, Seiya Okubo, Kazumi Saito, Kouzou Ohara, Masahiro Kimura and Hiroshi Motoda* A Randomized Game-Tree Search Algorithm for Shogi Based on Bayesian Approach *Daisaku Yokoyama and Masaru Kitsuregawa* Shift from Forward to Backward Deliberation in Search of Reconciliation *Hiroyuki Kido and Federico Cerutti* Cost Sensitive Decision Forest and Voting for Software Defect Prediction *Michael Siers and Zahid Islam* LAKUBE: An Improved Multi-Armed Bandit Algorithm for Strongly Budget-Constrained Conditions on Collecting Large-Scale Sensor Network Data *Yoshiaki Kadono and Naoki Fukuta*		
1:30pm-3:00pm	**PRICAI Session 19: Natural Language Processing II** **Session Chair : TBA** Grounding Epistemic Modality in Speakers' Judgments *Udo Hahn and Christine Engelmann* Question Classification Based on Fine-grained PoS Annotation of Nouns and Interrogative Pronouns *Juan Le, ZhenDong Niu, and Chunxia Zhang* Predicting Stock Market Trends by Recurrent Deep Neural Networks *Akira Yoshihara, Kazuki Fujikawa, Kazuhiro Seki and Kuniaki Uehara*	**PRICAI Session 20: Smart Modelling & Simulation II** **Session Chair : TBA** Accountable individual trust from group reputations in Multi-agent Systems *Doan Tung Nguyen and Quan Bai* An Innovative Approach for Predicting both Negotiation Deadline and Utility in Multi-issue Negotiation *Jihang Zhang, Fenghui Ren and Minjie Zhang*	**PRICAI Session 21: Applications II** **Session Chair : TBA** Arduface: An Embedded System Analysis Tool *Wanli Xue, Hyunsuk Chung, Soyeon Han, Yang Sok Kim and Byeong Ho Kang* Bidding with Fees and Setting Effective Fees in a Double Auction Marketplace *Bing Shi* Exploring Review Content for Recommendation via Latent Factor Model *Xiaoyu Chen, Yuan Yao, Feng Xu and Jian Lu*
3:30pm-5:00pm	**PRICAI Session 22: AI Techniques for Games** **Session Chair : TBA** Integrating Case-Based Reasoning with Reinforcement Learning for Real-Time Strategy Game Micromanagement *Stefan Wender and Ian Watson* K-means Pattern Learning for Move Evaluation in the Game of Go *Yunzhao Liang and Shuoying Chen* GDL Meets ATL: A logic for game description and strategic reasoning *Guifei Jiang, Dongmo Zhang and Laurent Perrussel*	**PRICAI Session 23: Classification** **Session Chair : TBA** Enhancing Binary Relevance for Multi-Label Learning with Controlled Label Correlations Exploitation *Yu-Kun Li and Min-Ling Zhang* Classification with sign random projections *Sanparith Marukatat* An AdaBoost for Efficient Use of Confidences of Weak Hypotheses on Text Categorization *Tomoya Iwakura, Takahiro Saitou and Seishi Okamoto*	**PRICAI Session 24: Video** **Session Chair : TBA** Robust Abrupt Motion Tracking via Adaptive Hamiltonian Monte Carlo Sampling *Fasheng Wang, Xucheng Li, Mingyu Lu and Zhibo Xiao* Discriminative Metric Learning for Shape Variation Object Tracking *Liujun Zhao, Qingjie Zhao, Wei Guo and Yuxia Wang* A Fast and Robust Multi-Color Object Detection Method with Application to Color Chart Detection *Song Wang, Akihiro Minagawa, Wei Fan, Jun Sun and Liang Xu*