The 9th Multi-Disciplinary International Workshop on Artificial Intelligence 2015 (MIWAI2015)

Fuzhou, China, 13th-15th, Nov., 2015

Venue: Fuzhou University & Yishan Hotel

Message from the General Chairs

Dear Honored Guests:

Welcome to Fuzhou! We would like to extend our warmest welcome to the delegates and participants of the 9th Multi-Disciplinary International Workshop on Artificial Intelligent 2015 (MIWAI2015).

We would like to express our utmost appreciation to College of Physics and Information Engineering and College of Mathematics and Computer Science of Fuzhou University, Mahasarakham University, University of Huddersfield and University College London, for their dedicated efforts in ensuring the success of this global gathering. The workshop aims to bring together researchers who work on Artificial Intelligent and related technologies. I am confident that this event will be the most productive for all the participants who have traveled far from the world over to join this workshop.

Other than workshop activities, please also take advantage of your stay in Fuzhou to explore this enchanting and vibrant city. Fuzhou is the capital and the largest prefecture-level city of Fujian province, People's Republic of China. Fuzhou is a famous tourist city with beautiful and countless sceneries and an excellent city center, and with natural and manmade sights. There are famed mountains, temples, tombs, gardens, towers and bridges throughout the city. In the town itself, one of the most rewarding places to visit is the district known as Sanfang Qixiang, which literally means "three lanes and seven alleys". It is a fascinating and well-preserved enclave of old houses and streets. Covering an area of about 40 hectares, the neighborhood dates back to the Jin dynasty, while most of the houses are from the Ming and Qing period. Those delicate buildings not only embody the brilliance of ancient workmen, but also the vivid lives of residents of this ancient city. Besides, China Ship-building and Navigation Culture Museum is an exhibition hall presenting the history of ship-building and navigation culture that featured by ship building, ship repairing and talent training.

As Host University and sponsor of the 2015 9th Multi-Disciplinary International Workshop on Artificial Intelligence, we wish you a wonderful workshop, and hope that you bring home the most beautiful memories.

Sincerely yours,

Shuying Cheng, Fuzhou University
Weixing Wang, Kungliga Tekniska högskolan, KTH
Grigoris Antoniou, University of Huddersfield
General Chairs, MIWAI 2015

Message from the Program Chairs

MIWAI has evolved from an annual series of international workshops, which was initiated in 2007 by Mahasarakham University in Thailand as the Mahasarakham International Workshop on Artificial Intelligence. In 2011, it was renamed as the Multi-disciplinary International Workshop on Artificial Intelligence, and was for the first time held outside Thailand, in Hyderabad, India. This year, the 9th workshop in this series, MIWAI 2015, will take place in Fuzhou, China during November 13–15, and will be hosted by Fuzhou University.

MIWAI covers a wide range of research areas such as cognitive science, computational philosophy, computational intelligence, computer vision, evolutionary computing, game theory, knowledge representation and reasoning, machine learning, multi-agent systems, natural language processing, pattern recognition, planning and scheduling, robotics, uncertainty in artificial intelligence and others. It also deals with applications of artificial intelligence research in domains such as bio-informatics, e-commerce, Internet of Things, knowledge management, privacy and security, recommender systems, social networks, software engineering, surveillance, telecommunications, the Web and others. Its aims are to provide a meeting place where artificial intelligence (AI) researchers and practitioners can present and discuss new research ideas and results from all fields of AI, and to promote synergies between researchers working in different countries and research fields.

MIWAI 2015 is one of the most successful workshops in this series with respect to the number and quality of submissions. It received 67 submissions from 21 different countries in Asia, Europe, America, and Oceania, and on several different topics ranging from more theoretical ones, such as cognitive science and logic-based knowledge representation, to more applied topics, such as smart health services and traffic sensing in vehicular networks. Each submission was carefully reviewed by at least two members of an international Program Committee (PC) through a double-blind review process, as well as by the chairs of the PC. From the 67 submissions, 31 were accepted as full papers (acceptance rate: 46 %) and were allocated 12 pages in the proceedings. There were also 15 submissions that received positive reviews; these were accepted as short papers and were allocated eight pages in the proceedings. From the accepted papers, one full paper and three short ones were withdrawn. This volume contains the remaining 30 full and 12 short papers, presented in eight topical sections: Knowledge Representation, Reasoning, and Management; Multi-agent Systems; Data Mining and Machine Learning; Computer Vision; Robotics; AI in Bioinformatics; AI in Security and Networks; and Other AI Applications.

The technical program of MIWAI 2015 included the presentations of all accepted papers, but also four keynote talks from four prominent members of the AI community: Prof. Luc De Raedt from Katholieke Universiteit Leuven, Belgium, and Prof. Fangzhen Lin, from the Hong Kong University of Science and Technology, Prof.

Xiangjian He, from University of Technology, Sydney, Prof. Wei-Chang Yeh, from National Tsing Hua University, Taiwan. We would like to thank the keynote speakers for accepting our invitation and for their very interesting talks.

Xianghan Zheng, Fuzhou University
Antonis Bikakis, University College of London
Program Chairs, MIWAI 2015

Keynote Speaker 1: Luc De Raedt

Luc De Raedt is a full professor at the KU Leuven, Belgium, where he also obtained his Ph.D. in 1991. From 1999-2006 he was a full professor at the Albert-Ludwigs-University Freiburg. His research interest focuses on probabilistic programming, statistical relational learning and combining constraint programming with machine learning. He is also interested in applications in bioinformatics, robotics, vision and natural language processing. He was a program-chair of conferences such as ECML/PKDD 2001, ICML 2005 and ECAI 2014 and coordinated a number of European projects such as ILP, APRIL and ICON.

Title: Probabilistic Programming and its Applications

Abstract: Probabilistic logic programs combine the power of a programming language with a possible world semantics; they are typically based on Sato's distribution semantics, and it is possible to learn their parameters and to some extent also their structure. They have been studied for over twenty years now. In this talk, I shall introduce the state of the art in probabilistic logic programs and report on some recent progress in applying this paradigm to challenging applications. The first application domain will be that of robotics, where we have developed extensions of the basic distribution semantics to cope with dynamics as well continuous distributions. The resulting representations are now being used to learn multi-relational object affordances, which specify the conditions under which actions can be applied on particular objects. The second application is in a biological domain, where a decision theoretic extension of the distribution semantics is the underlying inference engine of the PheNetic system, which extracts from an interactome, the sub-network that best explains genes prioritized through a molecular profiling experiment. Finally, I shall report on our results in applying ProbFOIL to the problem of machine reading in CMU's Never Ending Language Learning system. ProbFOIL is an extension of the traditional rule-learning system FOIL for use with the distribution semantics.

Keynote Speaker 2: Fangzhen Lin

Fangzhen Lin is a Professor in the Department of Computer Science and Engineering at the Hong Kong University of Science and Technology. He is interested in formal reasoning and currently have related projects in computer science, AI, game theory, and social choice theory. He completed his undergraduate study in computer science at Fuzhou University and received his master degree in computer science from Beijing University and doctoral degree in computer science from Stanford University. He received the Croucher Foundation Senior Research Fellowship award in 2006, a Distinguished Paper Award at IJCAI-97, a Best Paper Award at KR-2000, an Outstanding Paper Honorable Mention at AAAI-04, the Ray Reiter Best Paper award at KR-06, and an Honorable Mention for his planner R at the AIPS-2000 planning competition. He had served as Associate Editor of Artificial Intelligence and Journal of AI Research. He was the founding chair of the Awards Committee of Artificial Intelligence and has served on program committees of numerous international conferences including IJCAI, AAAI, and KR. He was program co-chairs of IJCAI 2015 KR Track, KR 2010 and LPNMR'09.

Title: A Formalization of Programs in First-Order Logic with a Discrete Linear Order

Abstract: Computer programs are among the most complex man-made systems. Given their widespread uses, many of them in critical applications, their reliability is of utmost importance. There have been many formalisms and methods proposed for reasoning about computer programs, and many techniques and methodologies for designing and debugging programs. In this talk, I will present my recent work on translating computer programs to first-order logic with quantification over natural numbers. I describe how this can be done for a core non-concurrent procedural language with loops. The key feature of this approach is that the translated first-order theory captures all the behaviors of the input program (under a standard execution model) so that whatever one wants to know about the program, one can find out using this first-order theory. My goal is to eventually extend this to include all computer programs, large or small.

Keynote Speaker 3: Xiangjian He

Professor Xiangjian He, as a Chief Investigator has received various national Research Grants awarded by Australian Research Council (ARC). He is the Director of Computer Vision and Recognition Laboratory and the leader of Network Security Research Team at the University of Technology, Sydney (UTS). He is an IEEE Senior Member. He has been awarded 'Internationally Registered Technology Specialist' by International Technology Institute (ITI). He has been carrying out research mainly in the areas of image processing, network security, pattern recognition and computer vision in the previous years. He has played various chair roles in various international conferences including IEEE CIT, IEEE AVSS and ICARCV. He is a guest editor for various international journals such as Signal Processing and Journal of Computer Networks and Computer Applications (Elsevier), and in the editorial boards of several international journals. He is a supervisor of postdoctoral research fellows and PhD students. Since 1985, he has been an academic, a visiting professor, an adjunct professor, a postdoctoral researcher or a senior researcher in various universities/institutions including University of Georgia, USA, Electronic and Telecommunication Research Institute (ETRI) of Korea, University of Aizu, Japan, Hongkong Polytechnic University, and University of Macau.

Title: Unsupervised Authorship Identification of a Document Based on Naïve-Bayesian Model

Abstract: This talk presents a new unsupervised method for decomposing a multi-author document into authorial components. We assume that we do not know anything about the document and the authors, except the number of the authors of that document. The key idea is to exploit the difference in the posterior probability of the Naive-Bayesian model to increase the precision of the clustering assignment and the accuracy of the classification process of our method. Experimental results show that the proposed method outperforms two state-of-the-art methods.

Keynote Speaker 4: Wei-Chang Yeh

Distinguished Professor Wei-Chang Yeh received the M.S. and Ph.D. degrees from the Department of Industrial Engineering at the University of Texas at Arlingtonin 1990 and 1992. He is the Distinguished professor of the Department of Industrial Engineering and Engineering Management at the National Tsing Hua University(NTHU). His research interests include network reliability theory and soft computing. He has authored more than 200 research papers in various international journals and conferences. He has also received more than 28 patents and served as the Special Session Chair, Session Chair, Keynote Speaker, Plenary Speaker, Organizer, Program Chair, International Program Committee, International Technical Committee, Associate Editor, and so on for various international conferences. Dr. Yeh is a senior member of the IEEE, a senior member of IACSIT, and a member of INFORMS. He has received awards for his research achievement from Ministry of Science and Technology in Taiwan. He is the Chair of IEEE CIS Task Force on "Intelligent Adaptive Fault Tolerant Control, Reliability, and Optimization" and serves as the Editor-in-Chief of "The Open Cybernetics & Systemics Journal" and "Soft Computing with Applications (SCA)".

Title: The Simplified Swarm Optimization and its Applications

Abstract: The optimization problem is very important in the real world and researchers have studied numerous optimization problems during these decades from various perspectives. It is a well-known Soft Computing for solving good-quality solutions of large-scale NP-hard optimization problems in various domains within a reasonable time.

The SSO (Simplified Swarm Optimization) is a new population-based Soft Computing proposed by Yeh. The fundamental concept of all versions of SSO is that each variable of any solution needs to be updated to a value related to its current value (as a local search), the pBest (the best solution among its history; its role is a hybrid global and local search), the gBest (the best solution among all other solutions; it acts as a global search), or a random feasible value (to enhance the capacity to escape from a local optimum). Due to the simplicity of modifying to suitable variants of real-life problems, e.g., the supply chain management, the grid computing, the data mining, the reliable systems design, etc., there many different versions of SSO have been proposed by researchers to apply to variant optimization applications since the inception of SSO. For this presentation, we provide an introduction, share real examples, and future works challenges of SSO.

Program Schedule

General Schedule	
Date	**Event**
13th, Nov.	**Workshop Registration** **Venue:** Reception Hall, YiShan Hotel **Address:** Gongye Road 577, Gulou District, Fuzhou 350002, China
14th, Nov.	**Opening Ceremony** **Workshop presentation** **Venue:** Boxue Auditorium of the Library, Qishan Campus of Fuzhou University
15th, Nov.	**Workshop presentation** **Best Paper Award** **Venue:** Asia-Pacific Multi-functional Hall, 1st floor of Guibin building, Yishan Hotel

Note: Shuttle bus will start from Yishan Hotel to Fuzhou University at 07:40 AM on 14th Nov., at the gate of Yishan hotel. Please arrive on time!

Morning, 14th, Nov., 2015
Venue: Boxue Auditorium of the Library, Qishan Campus of Fuzhou University
Chairs: Shuying Cheng, Chattrakul Sombattheera , Luc De Raedt

Time	Event (Boxue Auditorium)
08:30—09:00	**Opening Ceremony**
09:00—09:20	**Taking group photo**
09:20—10:00	**Keynote Speaker 1** **Luc De Raedt**, Department of Computer Science, Katholieke Universiteit Leuven, Belgium Title: Probabilistic Programming and its Applications
10:00—10:20	**Coffee Break**
10:20—11:00	**Keynote Speaker 2** **Wei-Chang Yeh**, Department of Industrial Engineering and Engineering Management, National Tsing Hua University(NTHU), TaiWan Title: the simplified swarm optimization and its applications

Best Paper Candidates		
Time	**Authors**	**Title**
11:00—11:20	Sotiris Batsakis, Ilias Tachmazidis and Grigoris Antoniou	Representing Time for the Semantic Web
11:20—11:40	Yingnan Zhao, Xiangjian He, Beijing Chen and Xiaoping Zhao	Integrating Simplified Inverse Representation and CRC for face recognition
11:40—12:00	Rongrong Li, Wenzhong Guo, Kun Guo and Qirong Qiu	Parallel Multi-Label Propagation for Overlapping Community Detection in Large-Scale Networks
12:00—13:00	**Lunch, Location: Expert Dining Hall**	

Afternoon, 14th, Nov., 2015

Venue： Boxue Auditorium of the Library, Qishan Campus of Fuzhou University

Sessions' Chairs: Fangzhen Lin, Weichang Yeh

14:00—14:40	**Keynote Speaker 3** **Xiangjian He**, School of Computing and Communications, University of Technology, Sydney, Australia Title: Unsupervised Authorship Identification of a Document Based on Naïve-Bayesian Model

Session A: Knowledge Representation, Reasoning and Management		
Time	**Authors**	**Title**
14:40—14:55	Badrinath Jayakumar and Rajshekhar Sunderraman	Construction of P-Minimal Models Using Paraconsistent Relational Model
14:55—15:10	Youngkon Lee and Ukhyun Lee	The Study Trend and Application Case of Research and Development Integrated Information Provision System for Small and Medium-sized Companies
15:10—15:25	Shuo Liang, Violeta Holmes, Grigoris Antoniou, and Joshua Higgins	iCurate: A Research Data Management System
15:25—15:45	**Coffee Break**	

Session B: Multi-agent Systems		
15:45—16:00	Alexander Alimov and David Moffat	Adaptive Model of Multi-objective Agent Behavior in Real-Time Systems
16:00—16:15	Xin Sun	Boolean Games with Norms
16:15—16:30	Xin Sun and Diego Agustín Ambrossio	Computational Complexity of Input/Output Logic
16:30—16:45	Farhad Rad, Hamid Parvin and Afshin Shahriari	End-to-end Data Based Fault Localization By Imperialist Competitive Algorithm
16:45—17:00	Souhila Arib, Samir Aknine, and Tristan Cazenave	Nested Monte-Carlo Search of Multi-agent Coalitions Mechanism with Constraints
Session C: Data Mining and Machine Learning		
17:00—17:15	Jing Dong, Dongsheng Zhou, and Qiang Zhang	Robust Feature Extraction Based on Teager-Entropy and Half Power Spectrum Estimation for Speech Recognition
17:15—17:30	Hanwei Lin, Zhicong Chen, Lijun Wu, Peijie Lin, and Shuying Cheng	On-line Monitoring and Fault Diagnosis of PV Array Based on BP Neural Network Optimized by Genetic Algorithm
17:30—17:45	Vadlamani Srikrishna, Rahul Ghosh, Vadlamani Ravi, and Kalyanmoy Deb	Elitist Quantum-Inspired Differential Evolution Based Wrapper for Feature Subset Selection
17:45—18:00	Phan Thi Bao Tran, Vo Thi Ngoc Chau, and Duong Tuan Anh	Towards Efficiently Mining Frequent Interval-Based Sequential Patterns in Time Series Databases
18:00—19:30	**Banquet, Location: Yishan Hotel**	

Morning, 15th, Nov., 2015
Venue： Asia-Pacific Multi-functional Hall , 1st floor of Guibin building, Yishan Hotel
Sessions' Chairs: Xiangjian He, Xianghan Zheng

08:30—09:10	**Keynote Speaker 4** Fangzhen Lin, Department of Computer Science, Hong Kong University of Science and Technology, Hong Kong, China Title: A Formalization of Programs in First-Order Logic with a Discrete Linear Order	
Time	**Authors**	**Title**
Session C: Data Mining and Machine Learning		
09:10—09:25	Gerhard Wohlgenannt, Stefan Belk, and Katharina Rohrer	Optimizing Ontology Learning Systems that Use Heterogeneous Sources of Evidence
09:25—09:40	Fengqing Chen and Xianghan Zheng	Machine-Learning Based Routing Pre-plan for SDN
09:40—09:55	Jü Yang, Hualong Yu, Xibei Yang, and Xin Zuo	Imbalanced Extreme Learning Machine Based on Probability Density Estimation
09:55—10:15	**Coffee break**	
Session D: Computer Vision		
10:15—10:30	Dandan Song, Jing Dong, and Qiang Zhang	Segmentation of Motion Capture Data Based on Measured MDS and Improved Oblique Space Distance
10:30—10:45	Zhijing Xu, Li Ye, and Xiangjian He	Single-Sample Face Recognition Based on WSSRC and Expanding Sample
10:45—11:00	Liangqin Chen and Weixing Wang	Flotation Surface Bubble Displacement Motion Estimation Based on Phase Correlation Method
11:00—11:15	Bo Huang, XiuZhi Yang, KaiXiong Su, and MingKui Zheng	An Improved DCT-Based JND Model Based on Textural Feature
11:15—11:30	Fan Zhang, Yifan Zhang, Xingxing Qu, Bin Liu, and Ruoya Zhang	Scanned Document Images Skew Correction Based on Shearlet Transform

11:30—11:45	Somnuk Phon-Amnuaisuk and Azhan Ahmad	Tracking and Identifying a Changing Appearance Target
11:45—12:00	Peijie Lin, Bochun Zheng, Zhicong Chen, Lijun Wu, and Shuying Cheng	Motion Detection System Based on Improved LBP Operator
12:00-13:00	**Lunch (1st floor of Dinning Hall, Yishan hotel)**	

Afternoon, 15th, Nov, 2015
Venue：Asia-Pacific Multi-functional Hall, 1st floor of Guibin building, Yishan Hotel
Sessions' Chairs: Weixing Wang, Jun Zheng

Session E: Robotics

Time	Authors	Title
14:00—14:15	Jikai Liu and Yongsheng Ma	Design History Retrieval Based Structural Topology Optimization
14:15—14:30	Maryam Azimifar, Farhad Rad, and Hamid Parvin	Online Detection of Moving Object in Video
14:30—14:45	Tongtong Hu, Jianxia Zhang, and Qiang Zhang	Trajectory Planning to Optimize Base Disturbance of 7-DOF Free-Floating Space Manipulator Based on QPSO
14:45—15:00	Eric Chown and Wai K. Yeap	Cognitive Robotics
15:00—15:15	Yueming Gao, Juan Cai, Zhumei Wu, Željka Lučev Vasić, Min Du, and Mario Cifrek	The Design and Experiment of the Leg Model Based on Galvanic Coupling Intra-Body Communication
Session G: AI in Security and Networks		
15:15—15:30	Yang Wang, Bryan Watson, Jun Zheng, and Srinivas Mukkamala	ARP-Miner: Mining Risk Patterns of Android Malware
15:30—15:45	Dongyun An and Xianghan Zheng	Markov Based Social User Interest Prediction
15:45—16:05	**Coffee Break**	
16:05—16: 20	Nguyen Thien Binh, Tran Cong Doi, Quan Thanh Tho, and Nguyen Minh Hai	Feature-Driven Formal Concept Analysis for Malware Hierarchy Construction
16:20—16:35	Kun Li, Xianghan Zheng, and Chunming Rong	Machine Learning Based Scalable and Adaptive Network Function Virtualization

16:35—16:50	Afshin Shahriari, Farhad Rad, and Hamid Parvin	Fault Localization by Imperialist Competitive Algorithm
Session H: Other AI Applications		
16:50—17:05	Shengnan Chen, Hongyan Qian, and Jiayi Gu	A Recommender System for Mobile Commerce Based on Relational Learning
17:05—17:20	Liang Xiao	An Agent-Oriented Data Sharing and Decision Support Service for Hubei Provincial Care Platform
17:20—17:35	Dan Wang, Haifeng Zheng, Xin Chen, and Zhonghui Chen	Data Gathering with Compressive Sensing for Urban Traffic Sensing in Vehicular Networks
17:35—17:50	Jiangyong Chen and Xianghan Zheng	A System Architecture for Smart Health Services and Applications
17:50—18:00	**Best Paper Award**	
18:00—19:00	Dinner, Location: 1st floor of Dinning Hall, Yishan hotel	

Traffic Information

➢ From **Changle International Airport** to **Yishan Hotel**:

1- Changle International airport to Apolo Hotel: Take Apolo Airport Bus

2- From Apolo Hotel to Yishan Hotel:

(1) By walk and bus

1) Walk for 650m: Apolo Hotel to AnDan bus stop

2) Take bus No. 39/14/122: ANDAN bus stop to FengHuangChi bus stop

3)Walk for 110m: FENGHUANGCHI bus stop to Yishan Hotel

(2) By Taxi: around 5.6 Km, cost around 16 RMB

➢ From **North Train Station** to **Yishan Hotel**:

1- By walk and bus:

(1) Take bus No.55/5 from North Square to ChaYuanShan bus stop

(2) Walk for 510m: ChaYuanShan bus stop to Yishan Hotel

2- By Taxi: around 7.9Km, cost around 20RMB

➢ From **Yishan Hotel** to **QiShan Campus of Fuzhou University**

Shuttle Bus Arranged

Qishan Campus of Fuzhou University

Emergency Contact: ZhiCong Chen, +8615806065152

Xianghan Zheng, +8615080025921

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- Xiangjian He, University of Technology, Sydney

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- Li Xu, Fujian Normal University, China
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