KSE2013 PROGRAM

Hanoi, October 17-19, 2013

October 17, 2013 (Day 1)			
08:30 – 16:30	Registration		Conference Hall
09:00 – 09:05	Opening Speech by Conference Chairs *Ho Cam Ha, Hanoi National University of Education*		
09:05 – 09:15	Welcome Speech by President of Hanoi National University of Education		
09:15 – 09:25	Conference Summary by Program Chairs *Huynh Van Nam, Japan Advanced Institute of Science and Technology*		
09:25 – 10:25	**Keynote Speech** What Ontological Engineering Can Do for Solving Real-World Problems *Riichiro Mizoguchi, Japan Advanced Institute of Science and Technology* Chair: Thierry Denoeux Room: Conference Hall		
10:25 – 10:50	Coffee Break		
	Session 1: **Natural Language Processing (1)** Chair: Phan Xuan Hieu Room: **201**	Special Session: **Fuzzy Clustering Algorithms: Recent Advances (1)** Chair: Sadaaki Miyamoto Room: **202**	Session 2: **Knowledge Based Systems** Chair: Andrzej Szałas Room: **203**
10:50 – 11:15	Word Confidence Estimation and its Integration in Sentence Quality Estimation for Machine Translation *Ngoc Quang Luong, Laurent Besacier and Benjamin Lecouteux*	On Cluster Extraction from Relational Data Using Entropy Based Relational Crisp Possobilistic Clustering *Yukihiro Hamasuna, Yasunori Endo*	On Horn Knowledge Bases in Regular Description Logic with Inverse *Linh Anh Nguyen, Thi-Bich-Loc Nguyen and Andrzej Szałas*

Time			
11:15 – 11:40	Improving Moore's Sentence Alignment Method Using Bilingual Word Clustering *Hai-Long Trieu, Phuong-Thai Nguyen and Kim-Anh Nguyen*	The Utilities of Imprecise Rules and Redundant Rules for Classiers *Masahiro Inuiguchi, Takuya Hamakawa*	On the Semantics of Defeasible Reasoning for Description Logic Ontologies *Viet-Hoai To, Bac Le and Mitsuru Ikeda*
11:40 – 12:05	Using Unicode in encoding the Vietnamese ethnic minority languages, applying for the Ede language *Le Hoang Thi My, Khanh Phan Huy and Souksan Vilavong*	Relational Fuzzy c-Means and Kernel Fuzzy c-Means using a Quadratic Programming-based Object-wise β-spread Transformation *Yuchi Kanzawa*	SudocAD: A Knowledge-Based System for the Author Linkage Problem *Michel Chein, Michel Leclère and Yann Nicolas*
12:05 – 12:30	An improvement of prosodic characteristics in Vietnamese Text to Speech System *Thanh-Son Phan, Anh-Tuan Dinh, Tat-Thang Vu and Chi-Mai Luong*	EM Algorithm for Uncertain Data *Naohiko Kinoshita, Yasunori Endo*	Model-Based Systems Engineering: Back to the future? *Joseph Kasser*
12:30 – 13:30	Lunch		
13:30 – 14:30	**Keynote Speech** Belief functions: Theory and some applications *Thierry Denoeux, Université de Technologie de Compiègne* Chair: Van-Nam Huynh Room: Conference Hall		
14:30 – 14:50	Coffee Break		
	Session 3: **Image Processing** Chair: Nguyen Thanh Thuy Room: **201**	Session 4: **Software Engineering** Chair: Nguyen Truong Thang Room: **202**	Special Session: **Granular Computing for Knowledge Systems and Kansei / Affective Engineering** Chair: Yasuo Kudo Room: **203**
14:50 – 15:15	Local Descriptors Without Orientation Normalization to Enhance Landmark Recognition *Dai-Duong Truong, Chau-Sang Nguyen Ngoc, Vinh-Tiep Nguyen, Minh-Triet Tran and Anh-Duc Duong*	Modeling and verifying imprecise requirements of systems using Event-B *Hong Anh Le, Thi Loan Dinh and Ninh Thuan Truong*	Recommendation of a Cloud Service Item Based on Service Utilization Patterns in Jyaguchi *Shree Krishna Shrestha, Yasuo Kudo, Bishnu Prasad Gautam and Dipesh Shrestha*
15:15 – 15:40	A hierarchical approach for high-quality and fast image completion *Dang Thanh Trung, Beghdadi Azeddine and Larabi*	Localization and Velocity Estimation on Bus with Cell-ID *Hung Nguyen, Tho My Ho and Tien Ba Dinh*	Heyting-Brouwer Rough Set Logic *Seiki Akama, Tetsuya Murai and Yasuo Kudo*

	Mohamed Chaker		
15:40 – 16:05	On Discriminant Orientation Extraction Using GridLDA of Line Orientation Maps for Palmprint Identification *Hoang Thien Van and Thai Hoang Le*	Finding round-off error using symbolic execution *Hoang Truong, Huy-Vu Tran and Bao-Ngoc Nguyen*	Bicluster-network method and its application to movie recommendation *Tatsuya Saitoh and Yoshifumi Okada*
16:05 – 16:30	Incomplete Encryption Based on Multi-channel AES Algorithm to Digital Rights Management *Ta Minh Thanh and Munetoshi Iwakiri*	An online monitoring solution for complex distributed systems based on hierarchical monitoring agents *Phuc Tran Nguyen Hong and Son Le Van*	Item recommendation by query-based biclustering method *Naoya Yokoyama and Yoshifumi Okada*
16:30 – 17:30	**Panel discussion** Linking between science and industry (in Vietnamese) Room: Conference Hall		

October 18, 2013 (Day 2)

08:30 – 16:30	Registration
09:00 – 10:00	**Keynote Speech** Argumentation for Practical Reasoning *Phan Minh Dung, Asian Institute of Technology* Chair: Riichiro Mizoguchi Room: Conference Hall
10:00 – 10:20	Coffee Break

	Session 5: **Natural Language Processing (2)** Chair: Pham Bao Son Room: **201**	Session 6: **Multidimensional Data Mining** Chair: Nguyen Duc Dung Room: **202**	Session 7: **Soft Computing** Chair: Ho Cam Ha Room: **203**
10:20 – 10:45	News Aggregating System Supporting Semantic Processing Based on Ontology *Nhon Dovan, Vu Lamhan, Trung Lebao and Van Holong*	iSPLOM: Interactive with Scatterplot Matrix for Exploring Multidimensional Data *Van Long Tran*	New Composition of Intuitionistic Fuzzy Relations *Bui Cong Cuong and Pham Hong Phong*
10:45 – 11:10	Enhance matching web service security policies	Particulate Matter concentration Estimation from satellite aerosol and meteorological parameters,	A Subgradient Method to Improve Approximation

	with semantic *Tuan-Dung Cao and Nguyen-Ban Tran*	data-driven approaches *Thi Nhat Thanh Nguyen, Viet Cuong Ta, Thanh Ha Le and Simone Mantovani*	Ratio in the Minimum Latency Problem *Ban Ha Bang and Nguyen Duc Nghia*
11:10 – 11:35	A New Improved Term Weighting Scheme for Text Categorization *Nguyen Pham Xuan and Hieu Le Quang*	Secure Authentication For Mobile Devices Based On Acoustic Background Fingerprint *Quan Quach, Ngu Nguyen and Tien Dinh*	Resolution in Linguistic Propositional Logic based on Linear Symmetrical Hedge Algrebra *Thi-Minh-Tam Nguyen, Viet-Trung Vu, The-Vinh Doan and Duc-Khanh Tran*
11:35 – 12:00	A Spatio-Temporal Profiling Model for Person Identification *Nghi Pham and Tru Cao*	Text-Independent Phone Segmentation Method Using Gaussian Function *Dac-Thang Hoang and Hsiao-Chuan Wang*	A Ray based Interactive method For Direction based Multi-Objective Evolutionary Algorithm *Long Nguyen and Lam Thu Bui*
12:00 – 13:30	Lunch		
13:30 – 14:30	**Invited Speech** Fuzzy Clustering: An Introduction and Recent Topics *Sadaaki Miyamoto, University of Tsukuba* Chair: Phan Minh Dung Room: Conference Hall		
14:30 – 14:50	Coffee Break		
	Special Session: **Fuzzy Clustering Algorithms: Recent Advances (2)** Chair: Yasunori Endo Room: **201**	Special Session: **Knowledge Discovery and Data Mining: Techniques and Applications** Chair: Le Hoai Bac Room: **202**	Session 8: **Knowledge Discovery** Chair: Mina Ryoke Room: **203**
14:50 – 15:15	An Algorithm Combining Spectral Clustering and DBSCAN for Core Points *So Miyahara, Yoshiyuki Komazaki, Sadaaki Miyamoto*	Maintenance of a Frequent-itemset Lattice Based on Pre-large Concept *Bay Vo, Tuong Le, Tzung-Pei Hong and Bac Le*	Frequent Temporal Inter-object Pattern Mining in Time Series *Thanh Vu Nguyen and Thi Ngoc Chau Vo*
15:15 – 15:40	A Method of Two-Stage Clustering with Constraints Using Agglomerative Hierarchical Algorithm and One-Pass k-Means++ *Yusuke Tamura, Nobuhiro Obara, Sadaaki Miyamoto*	Privacy Preserving Frequency-based Learning Algorithms in Two-Part Partitioned Record Model *The Dung Luong and Dang Hung Tran*	An approach for mining association rules intersected with constraint itemsets *Anh Tran, Tin Truong and Bac Le*

15:40 – 16:05	An Algorithm for Fuzzy Clustering based on Conformal Geometric Algebra *Minh Tuan Pham and Kanta Tachibana*	SE-Stream: dimension projection for evolution-based clustering of high dimensional data streams *Rattanapong Chairukwattana, Thanapat Kangkachit and Kitsana Waiyamai*	An Efficient Method for Discovering Motifs in Streaming Time Series Data *Truong Cao Duy and Anh Duong Tuan*
16:05 – 16:30		Mining Jumping Emerging Patterns by Streaming Feature Selection *Fatemeh Alavi and Sattar Hashemi*	Mining Class-Association Rules with Constraints *Dang Nguyen and Bay Vo*
17:00	Move to Sen Tay Ho Restaurant		
18:00 – 20:00	**Banquet** Sen Tay Ho Restaurant		

October 19, 2013 (Day 3)

08:30 – 09:00	Registration
09:00 – 10:00	**Invited Speech** The Place of Causal Analysis in the Analysis of Simulation Data *Prof. Ladislav Hluchý, Slovak Academy of Sciences* Chair: Tran Quang Anh Room: Conference Hall
10:00 – 10:10	Coffee Break
10:10 – 11:10	**Invited Speech** Legal Engineering and its Natural Language Processing *Prof. Akira Shimazu and Asso.Prof. Minh Le Nguyen, Japan Advanced Institute of Science and Technology* Chair: Anh Cuong Le Room: Conference Hall
11:10 – 11:20	Coffee Break

	Special Session: **Digital Knowledge Ecosystem and Severe Uncertainty in Systems** Chair: Marie-Hélène Abel Room: **201**	Session 9: **Bioinformatics/Machine Learning** Chair: Tu Minh Phuong Room: **202**	Workshop: **The 2013 Vietnam Workshop on Computation Intelligence (1)** Chair: Pham Bao Son Room: **203**

11:20 – 11:45	Mining frequent itemsets in evidential database *Ahmed Samet, Eric Lefèvre and Sadok Ben Yahia*	The un-normalized graph p-Laplacian based semi-supervised learning method and protein function prediction problem *Loc Tran*	Phishing Attacks Detection Using Genetic Programming *Tuan Anh Pham, Quang Uy Nguyen and Xuan Hoai Nguyen*
11:45 – 12:10	MOSS formalism for Multilingual Ontologies *Jean-Paul Barthès and Claude Moulin*	Pomelo's Quality Classification based on Combination of Color Information and Gabor Filters *Huu Hung Huynh, Trong Nguyen Nguyen and Jean Meunier*	Solving Fuzzy Job-Shop Scheduling Problems with a Multiobjective Optimizer *Thanh-Do Tran, Ramiro Varela, and El-Ghazali Talbi*
12:10 – 12:35	Integrating Social Network Data for Empowering Collaborative Systems *Xuan Truong Vu, Marie-Helene Abel and Pierre Morizet*	Gender Prediction Using Browsing History *Do Viet Phuong and Phuong Tu*	
12:35 – 13:30	Lunch		
13:30 – 14:30	**Invited Speech** Evolutionary Computation in the Real World: Successes and Challenges *Graham Kendall , The University of Nottingham Malaysia Campus* Chair: Bui Thu Lam Room: Conference Hall		
14:30 – 14:50	Coffee Break		
	Special Session: **Empirical Methods for Asian Language Processing** Chair: Nguyen Le Minh Room: **201**	Special Session: **Multi-scale and multi-physical modeling and characterization of Biomechanics Systems** Chair: Marie-Christine Ho Ba Tho Room: **202**	Workshop: **The 2013 Vietnam Workshop on Computation Intelligence (2)** Chair: Pham Bao Son Room: **203**
14:50 – 15:15	Reference Resolution in Japanese Legal Texts at Passage Levels *Oanh Thi Tran, Bach Xuan Ngo, Minh Le Nguyen and Akira Shimazu*	Automatic evaluation of the elastic modulus of a capsule membrane *Thi-Xuan Chu, Anne-Virginie Salsac Eric Leclerc and Dominique Barthès-Biesel*	Risk Minimization of Disjunctive Temporal Problem with Uncertainty *Hoong Chuin Lau and Tuan Anh Hoang*
15:15 – 15:40	Resolving Named Entity Unknown Word in Chinese-Vietnamese Machine Translation	Estimation of Patient Specific Lumbar Spine Muscle Forces using Multi-Physical Musculoskeletal Model	A Multi-Objective Approach for Vietnamese Spam Detection

	Phuoc Tran, Dien Dinh and Linh Tran	and Dynamic MRI *Tien-Tuan Dao, Philippe Pouletaut, Fabrice Charleux, Áron Lazáry, Peter Eltes, Peter Pal Varga and Marie-Christine Ho Ba Tho*	*Vu Minh Tuan, Tran Quang Anh, Ha Quang Minh and Bui Thu Lam*
15:40 – 16:05	Towards Vietnamese Entity Disambiguation *Long Truong Minh, Tru Cao Hoang and Dien Dinh*	Subject Specific Modeling of the Muscle Activation. Application to the Facial Mimics *Marie-Christine Ho Ba Tho, Tien-Tuan Dao, Sabine Bensamoun, Stéphanie Dakpe, Bernard Devauchelle and Mohamed Rachik*	A Cyber Swarm Algorithm for Constrained Program Module Allocation Problem *Peng-Yeng Yin and Pei-Pei Wang*
16:05 – 16:30	Part-of-Speech Induction for Vietnamese *Phuong Le-Hong and Thi Minh Huyen Nguyen*	Recovering the contralateral arm strength loss caused by an induced jaw imbalance *Van Hoa Nguyen, Minh Hoa Le, Thanh Hai Nguyen and Van Toi Vo*	
16:30 – 16:55	Paragraph alignment for English-Vietnamese parallel E-books *Quang-Hung Le, Anh-Cuong Le and Van-Nam Huynh*	Ultrasound wave propagation in a stochastic cortical bone plate *Salah Naili, Vu-Hieu Nguyen, Mai-Ba Vu, Christophe Desceliers and Christian Soize*	
16:55 – 17:10	Closing		