RIVF 2016 Preliminary Program
November 07-09, 2016
Thuyloi University, Hanoi, Vietnam

	Monday, November 07, 2016	
08:00-09:00	**Registration** Place: TBA	
09:00-09:30	**Opening Session** Master of Ceremonies: TBA Place: TBA	
	Opening Speech by Honorary Chairs **Nguyen Quang Kim & Douglas Zuckerman** Welcome Speech by General Chairs **Vincenzo Piuru & Tu-Bao Ho** Program Summary by PC Chairs **Tru Cao & Yo-Sung Ho**	
09:30-10:30	**Keynote Talk 1** IEEE's New Technology Initiatives and ComSoc's Leading Role **Harvey Freeman** - President of IEEE Communications Society Chair: TBA Place: TBA	
10:30-11:00	**Coffee Break** Place: TBA	
11:00-12:30	**Computational Intelligence and Big Data Analytics I** (1L + 3R) Chair: TBA Room: TBA	**Image, Language, and Speech Processing I** (1L + 2R + 1S) Chair: TBA Room: TBA
	83 (L). Accelerating the Distributed Simulations of Agent-Based Models using Community Detection **Antoniya Petkova, Martin Dimitrov, Charles Hughes and**	24 (L). New No-Reference Stereo Image Quality Method for Image Communication **Ying Wang, Mei Yu, Fen Chen and Gangyi Jiang**
	71 (R). About Cooperation of Multiagent Collective Products: An Approach in the Context of Cyber-Physical Systems **Afra Khenifar, Jean-Paul Jamont, Michel Occello, Choukri-Bey Ben-Yelles and Mouloud Koudil**	17 (R). Blind Deblurring using Adaptive Image Model **Ngoc Thuy Le**
	64 (R). A New Viral Marketing Strategy with the Competition in the Large-Scale Online Social Networks **Van Canh Pham, Dung Ha, Quoc Dung Ngo, Chi Quang Vu and Xuan Huan Hoang**	31 (R). Fast Parallel Blur Detection of Digital Images **Giang Son Tran, Thi Phuong Nghiem, Nhat-Quang Doan, Alexis Drogoul and Chi Mai Luong**
	65 (R). An Improved Artificial Immune Network for Solving Construction Site Layout Optimization **Duc Quang Vu, Van Truong Nguyen and Xuan Huan Hoang**	69 (S). An Approach to Counting Brown Planthopper in Images Containing Overlapping Individuals **Tran Cong Nghi, Tran C. An and Hiep Huynh**
12:30-14:00	**Lunch** Place: TBA	
14:00-15:30	**Computational Intelligence and Big Data Analytics II** (1L + 3R) Chair: TBA Room: TBA	**Information, Language, and Speech Processing II** (1L + 2R + 1S) Chair: TBA Room: TBA
	97 (L). Effect of Social Capital on Emotion, Language Style and Latent Topics in Online Depression Community **Bo Dao, Thin Nguyen, Svetha Venkatesh and Dinh Phung**	51 (L). Phase Synchronization in a Manifold Space for Recognizing Dynamic Hand Gestures from Periodic Image Sequences **Giang Doan, Hai Vu and Thanh Hai Tran**
	59 (R). A Semi-Supervised Approach for Temporal Information Extraction from Clinical Text **Gandhimathi Moharasan and Tu Bao Ho**	19 (R). Gaussian Filtering Detection Based on Features of Residuals in Image Forensics **Kang Hyeon Rhee and Jae Jeong Hwang**
	2 (R). Automatic De-Identification of Medical Records with a Multilevel Hybrid Semi-Supervised Learning Approach **Phuong Nguyen Dong and Chau Vo**	62 (R). Classifying Human Body Postures by a Two-Neuron Fuzzy Neural Network **Hoa Nong Thi and Bui The Duy**
	54 (R). Causality Analysis between Climatic Factors and Dengue Fever Using the Granger Causality **Pham Nguyen Hoang, Jean-Daniel Zucker, Marc Choisy and Ho Tuong Vinh**	41 (S). Robust and Adaptive Shadow Detection in Surveillance Systems Using Gaussian Processes **Binh T. H. Nguyen, Bang Q. H. Tran and Bui Ngoc Dung**
15:30-16:00	**Coffee Break** Place: TBA	
16:00-17:30	**Computational Intelligence and Big Data Analytics III** (1L + 3R) Chair: TBA Room: TBA	**Information, Language, and Speech Processing III** (1L + 3R) Chair: TBA Room: TBA
	98 (L). Semantic Text Alignment Based on Topic Modeling **Huong T. Le, Son V. Nguyen, Lam N. Pham, Duy D. Nguyen and An N. Nguyen**	35 (L). Blind Method for Phone Segmentation Using Gaussian Function Locally **Dac-Thang Hoang, Tat-Thang Vu and Tung-Lam Phi**

	8 (R). A Suite of Techniques to Improve Random Projection in Time Series Motif Discovery **Dang Xuan Binh and Duong Tuan Anh**	50 (R). A Many-to-One Phone Mapping Approach for Cross-Lingual Speech Recognition **Van Hai Do, Nancy F. Chen, Boon Pang Lim and Mark Hasegawa-Johnson**
	37 (R). Combining Transfer Learning and Co-training for Student Classification in an Academic Credit System **Hoang Nguyen, Chau Vo and Hua Phung Nguyen**	99 (R). Speed Up Temporal Median Filter and Its Application in Background Estimation **Thanh-Sach Le, Nhu-Tai Do and Kazuhiko Hamamoto**
	4 (R). An Effective GRASP+VND Metaheuristic for the k-Minimum Latency Problem **Ban Ha Bang and Nguyen Duc Nghia**	100 (R). Spatial and Spectral Features Utilization on a HyperSpectral Imaging System for Rice Seed Varietal Purity Inspection **Hai Vu, Christos Tachtatzis, Paul Murray, David Harle, Kien Dao Trung, Lan Le Thi, Ivan Andonovic and Stephen Marshall**
18:30-21:00	**Reception** Place: TBA	

Tuesday, November 08, 2016

09:00-09:30	**Registration** Place: TBA	
09:30-10:30	**Keynote Talk 2** Big Data Initiatives in China: Opportunities and Challenges **Joshua Huang** - Director of Big Data Institute, Shenzhen University Chair: TBA Place: TBA	
10:30-11:00	**Coffee Break** Place: TBA	
11:00-12:25	**Computational Biomedicine I** (1L + 2R + 1S) Chair: TBA Room: TBA	**Information, Language, and Speech Processing IV** (1L + 2R + 1S) Chair: TBA Room: TBA
	22 (L). Detection of Lesion Region in Skin Images by Moment of Patch **Dao Nam Anh**	96 (L). Towards a Syntactically and Semantically Enriched Lexicon for Vietnamese Processing **Thi Huyen Nguyen, Minh Hai Nguyen, Thi Minh Huyen Nguyen and The Quyen Ngo**
	10 (R). Real-Time Brainwave-Controlled Interface Using P300 Component in EEG Signal Processing **Kha Ha and Kha Vo**	44 (R). A Hybrid Approach to Vietnamese Word Segmentation **Tuan-Phong Nguyen and Anh-Cuong Le**
	38 (R). An Artificial Neural Network Approach for Electroencephalographic Signal Classification towards Brain-Computer Interface Implementation **Hoang-Anh Nguyen, Hoang Tran, Tien-Dung Do, Thang Vu and Quyen Bui**	61 (R). A Reordering Model for Vietnamese-English Statistical Machine Translation Using Dependency Information **Viet Tran Hong, Huyen Vu Thuong, Thu Pham Hoai, Vinh Nguyen Van and Nguyen Le Minh**
	29 (S). Imbalance Regulation for Identification of Abnormality in Medical Images **Dao Nam Anh, Dang Xuan Tho, Ngo Quoc Tao and Bui Duong Hung**	46 (S). Scoring and Ranking an Explanatory Sentence by Improving BM25E and SumWordLR Methods **Trung Thien Vo, Bac Le and Nguyen Le Minh**
12:25-14:00	**Lunch** Place: TBA	
14:00-15:10	**Computational Biomedicine II** (1L + 2R) Chair: TBA Room: TBA	**Information, Language, and Speech Processing V** (1L + 1R + 1S) Chair: TBA Room: TBA
	52 (L). Detection of New Drug Indications from Electronic Medical Records **Tran-Thai Dang, Phetnidda Ouankhamchan and Tu-Bao Ho**	14 (L). Streaming Aspect-Sentiment Analysis **Vu Le Anh, Chien Phung Van, Cuong Vu Cao, Linh Ngo Van and Khoat Than Quang**
	3 (R). System Pharmacology: Application of Network Theory in Predicting Potential Adverse Drug Reaction Based on Gene Expression Data **Duy Pham, Bao-Khanh Le, Tu-Bao Ho and Ly Le**	63 (R). A Fast and Efficienct Reversible Watermarking Method Using Generalized Integer Transform **Luyen Cao Thi and At Pham Van**
	94 (R). Assessing Human Disease Phenotype Similarity Based on Ontology **Duc-Hau Le, Ba-Su Pham and Anh-Minh Dao**	92 (S). An Ontology-Based Coreference Resolution Approach for Aspect-Level Sentiment Analysis **Thuy Le Thi, Hung Vo Thanh, Trung Mai Duc, Tho Quan Thanh and Tuoi Phan Thi**
15:10-15:40	**Coffee Break** Place: TBA	
15:40-16:50	**Computational Biomedicine III** (1L + 2R) Chair: TBA Room: TBA	**Communications and Networking I** (1L + 2R) Chair: TBA Room: TBA
	82 (L). A Multi-Scale Model for Studying Spatial Epidemic Spreading in an Office Building	36 (L). An Estimation Scheme Based on Pairwise Broadcast to Synchronize Wireless Sensor Networks

	Thu Le Kim, Doanh Nguyen Ngoc, Anh Nguyen Thi Ngoc, Nghi Huynh Quang and Edouard Amouroux	**Nasiroh Chedoloh and Watcharapan Suwansantisuk**
	74 (R) Quantifying the Effect of Synchrony on the Persistence of Infectious Diseases in a Metapopulation **Tran Thi Cam Giang, Marc Choisy and Jean Daniel Zucke**	40 (R) Searching of Best-effort Messages in TTEthernet Switches during the Timely Blocking Intervals **Ekarin Suethanuwong and Sangnapa Hirunmutraporn**
	21 (R). A Frequency-Based Gene Selection Method with Random Forests for Gene Data Analysis **Thanh Trinh, DingMing Wu, Salman Salloum, Tung Nguyen and Joshua Zhexue Huang**	60 (R) Malicious HTTP Communication Detection Based on Access Graph Analysis **Manh Cong Tran, Sei Kudo and Yasuhiro Nakamura**

	Free Evening

	Wednesday, September 09, 2016

09:30-10:30	**Keynote Talk 3** From Communication Data to Human Behaviours in Task-Specific Activities: Case of Air Traffic Management **Vu Duong** - Director of John von Neumann Institute, VNU-HCM Chair: TBA Place: TBA
10:30-11:00	**Coffee Break** Place: TBA

11:00-12:10	**Software Engineering and Computational Intelligence** (1R + 3S) Chair: TBA Room: TBA	**Communications and Networking II** (1L + 2R) Chair: TBA Room: TBA	**Workshop on Vietnamese Language and Speech Processing** Schedule: TBA Chair: **Huyen T.M. Nguyen** Room: TBA
	79 (R) Domain-Driven Design Patterns: A Metadata-Based Approach **Duc Minh Le, Duc-Hanh Dang and Viet-Ha Nguyen**	55 (L) A RESTful Task Allocation Mechanism for the Web of Things **El Mehdi Khalfi, Jean-Paul Jamont, Michael Mrissa and Lionel Medini**	
	43 (S) A Strongest Assumption Generation Method for Component-Based Software Verification **Hoang-Viet Tran, Chi-Luan Le and Ngoc Hung Pham**	70 (R) Load Balancing Using Multipath Routing in Network Functions Virtualization **Tuan-Minh Pham and Linh Manh Pham**	
	84 (S) Similarity Kernel for User-based Collaborative Filtering Recommendation System **Quoc Nghia Phan, Hoai Phuong Dang and Xuan Hiep Huynh**	53 (R) Performance Evaluation of Distributed File Systems under Cloud Computing Environment: Small-File Problem **Thanh Duong and Quoc Luu**	
	90 (S) An Approach Based on Max Flow Resolution for Minimizing Makespan of Personal Scheduling Problem **Son Trang Hong, Huy Nguyen Van, Nguyen Huynh Tuong, Lang Tran Van and Ameur Soukhal**		

12:10-14:00	**Lunch** Place: TBA

14:00-17:00	**Tutorial** Finding research topics and writing scientific papers Speaker: **Tu-Bao Ho** Room: TBA	**IEEE Volunteer Training Workshop** Speaker: **Vincenzo Piuri** Room: TBA	**Workshop on Vietnamese Language and Speech Processing** Schedule: TBA Chair: **Huyen T.M. Nguyen** Room: TBA
18:30-21:30	**Gala Dinner** Place: TBA		

Time for paper presentation including approximately 5 mins for Q&A:
- Long presentation (L): 30 mins
- Regular presentation (R): 20 mins
- Short presentation (S): 15 mins