- Submission deadline   July 29, 2020 (**Hard Deadline**)

- Notification of acceptance   September 15, 2020

- Camera-ready submission   September 25, 2020

- Registration   October 05, 2020

KSE-2020 PROGRAM

Can Tho city, Vietnam, November 12 - 14, 2020

L: Long paper (25 minutes)

R: Regular paper (20 minutes)

Online presentation: Plus 5 minutes for preparation

Keynote Speech: 60 minutes

Coffee Break: 15 minutes

DAY 1 (November 12, 2020)
College of Information and Communication Technology, Can Tho University
Campus II, 3/2 street, Ninh Kieu district, Can Tho city, Viet Nam
MORNING SESSION

07:30 – 08:00	**REGISTRATION**

	OPENING CEREMONY **Venue: Meeting Hall**		
	- Delegate Introduction		
08:00 – 08:15	- Opening remarks by Rector of Can Tho University - Speech of KSE 2020 Conference General Co-Chairs (Prof. Nguyen Thanh Thuy, Prof. Nguyen Huu Hoa) - Speech of KSE 2020 Program Committee Co-Chairs (Prof. Huynh Xuan Hiep, Prof. Ngo Xuan Bach) - Gifts to distinguished delegates		
08:15 – 08:25	**GROUP PHOTO**		
08:25 – 09:25	**Session 1: KEYNOTE I** **Venue: Meeting Hall** **Invited speaker: Prof. Hady W. Lauw** **Advances in Preference Learning - Towards Multimodality and Greater Interpretability** **Chair: Prof. Do Phuc, Dr. Lam Nhut Khang**		
09:25 – 09:40	**COFFEE BREAK**	**COFFEE BREAK**	
	09:40 – 11:45 **Session 2A: Natural Language Processing and Text Mining (1)** **Venue: Meeting Hall** **Chair: Dr. Phan Viet Anh, Dr. Truong Quoc Dinh**	**09:40 – 11:55** **Session 2B: Computer Vision and Pattern Recognition** **Venue: Meeting Room 2** **Chair: Dr. Tran Quoc Long, Dr. Tran Nguyen Minh Thu**	
09:40 – 10:05	A comparison of Vietnamese Statistical Parametric Speech Synthesis Systems *Huy Kinh Phan, Viet Lam Phung, Anh Tuan Dinh and Quoc Bao Nguyen*	09:40 – 10:05	Compression Artifacts Image Patch database for Perceptual Quality Assessment *Tung Pham Thanh, Viet Cuong Ta, Thi Thanh Thuy Pham and Thanh Ha Le*
10:05 – 10:35	Can Knowledge Enhance Reading Comprehension? An Integrated Approach with Semantic Lexicon *Kong Wei Kun, Teeradaj Racharak and Le-Minh Nguyen*	10:05 – 10:30	Reducing Blocking Artifacts in CNN-Based Image Steganography by Additional Loss Functions *Tuan Dung Pham, Viet Cuong Ta, Thanh Thuy Pham and Thanh Ha Le*

Time	Session	Time	Session
10:35 – 11:00	Abstractive Sentence Summarization with Encoder-Convolutional Neural Networks *Toi Nguyen, Toai Le and Nhi-Thao Tran*	10:30 – 10:50	Real-time vehicle detection and counting based on YOLO and DeepSORT *Thanh-Nghi Doan and Minh-Tuyen Truong*
11:00 – 11:25	Real-time Opinion Extraction and Classification for Vietnamese Posts on Social Networks *Thuong-Cang Phan, Anh-Cang Phan and Thanh-Ngoan Trieu*	10:50 – 11:10	Analysis of CALIPSO satellite imagery for air pollution source identification in Hanoi, Vietnam *Tran Tuan Vinh, Pham Van Ha, Nguyen Thanh Thuy and Nguyen Thi Nhat Thanh*
11:25 – 11:45	Transformer-based Summarization by Exploiting Social Information *Minh-Tien Nguyen, Van-Chien Nguyen, Huy-The Vu and Van-Hau Nguyen*	11: 10 – 11:35	A deep learning based system for mathematical expression detection and recognition in document images *Bui Hai Phong, Luong Tan Dat, Nguyen Thi Yen, Thang Manh Hoang and Thi-Lan Le*
11:30 – 13:30	**LUNCH TIME**		
	AFTERNOON SESSION		
13:30 – 14:30	**Session 3: KEYNOTE 2** **Venue: Meeting Hall** **Invited speaker: Dr. Nguyen Quoc Dat** **Recent advances in Vietnamese NLP** **Chair: Prof. Ngo Xuan Bach, Dr. Pham The Phi**		
14:30 – 14:45	**COFFEE BREAK**		**COFFEE BREAK**
	14:45 – 16:20 **Session 4A: Natural Language Processing and Text Mining (2)** **Venue: Meeting Hall** **Chair: Dr. Phan Thuong Cang, Dr. Tran Thi Oanh**		**14:45 – 16:20** **Session 4B: Software, Communications, and Security** **Venue: Meeting Room 2** **Chair: Dr. Phan Phuong Lan, Dr. Cu Vinh Loc**

Time	Session	Time	Session
14:45 – 15:10	Trom Universal Language Model to Downstream Task: Improving RoBERTa-Based Vietnamese Hate Speech Detection *Quang Huu Pham, Viet Anh Nguyen, Linh Bao Doan, Ngoc N. Tran and Thanh Minh Ta*	14:45 – 15:10	An Elliptic Curve-based Protocol for Privacy Preserving Frequency Computation in 2-Part Fully Distributed Setting *Thi-Van Vu, The-Dung Luong and Van-Quan Hoang*
15:10 – 15:40	Integrating Transformer into Global and Residual Image Feature Extractor in Visual Question Answering for Blind People *Tung Le, Tien-Huy Nguyen and Nguyen Le Minh*	15:10 – 15:35	Generate Test Data from C/C++ Source Code using Weighted CFG and Boundary Values *Tran Nguyen Huong, Do Minh Kha, Tran Hoang-Viet and Pham Ngoc Hung*
15:40 – 16:00	Key phrase Generation for Vietnamese Administrative Documents: A Collaborative Approach *Thi-Thu-Trang Nguyen, Thi-Hai-Yen Vuong, Van-Lien Tran, Le-Minh Nguyen and Xuan-Hieu Phan*	15:35 – 15:55	Automatic Extraction of Analysis Classes from Use Cases *Minh-Hue Chu and Duc-Hanh Dang*
16:00 – 16:20	Visualizing Vietnam's Scientific Research Projects Based on Pre-trained Language Models and UMAP *Hien T. Nguyen, Duy V. Huynh, Hieu N. Duong and Nam Thoai*	15:55 – 16:20	An approach for application generation based on BPMN *Bao Hoai Lam, Vi Tuong Hoang Nguyen, Cuong Huy Phan and Tuyen Thanh Thi Truong*
	COFFEE BREAK **16:25 – 17:40** **Session 4C: Learning, Prediction, and Recognition** **Venue: Meeting Hall** **Chair: Dr. Nguyen Cong Danh, Dr. Tran Viet Chau**		**COFFEE BREAK** **16:25 – 17:10** **Session 4D: Deep Learning and Document Security** **Venue: Meeting Room 2** **Chair: Dr. Tran Hoang Viet, Dr. Lam Hoai Bao**
16:25 – 16:50	Node-aware convolution in Graph Neural Networks for Predicting molecular properties *Linh Le Pham Van, Quang Bach Tran, Tien Lam Pham and Quoc Long Tran*	16:25 – 16:45	Fine-tuning Deep Network Models for Classifying Fingerprint Images *Thanh-Nghi Do, The-Phi Pham and Minh-Thu Tran-Nguyen*

16:50 – 17:15	Identification of the Damages Caused by Diseases on Fresh Destemmed Chilli Fruits *Quoc-Khanh Huynh, Chi-Ngon Nguyen, Hong-Phuc Vo-Nguyen, Hung-Tam Le, Dang-Khanh-Linh Le and Van-Cuong Nguyen*	16:45 – 17:10	Content Region Detection and Feature Adjustment for Securing Genuine Documents *Cu Vinh Loc, Tran Cao De, Jean-Christophe Burie and Jean-Marc Ogier*
17:15 – 17:40	Active Learning: The Almost Silver Bullet *Eric Hicks, Quang Tran, Kriangsiri Malasri, Nam Sy Vo and Vinhthuy Phan*		
18:00 – 21:00	**BANQUET** **Hoa Su Restaurant (Hall 3), Cai Khe ward, Ninh Kieu district, Can Tho city** Conference summary Best paper award KSE 2021 speech		
	END OF DAY 1		

DAY 2 (November 13, 2020) **College of Information and Communication Technology, Can Tho University** Campus II, 3/2 street, Ninh Kieu district, Can Tho city, Viet Nam	
MORNING SESSION	
08:00 - 08:30	**REGISTRATION**
08:30 - 09:30	**Session 5: KEYNOTE 3** **Venue: Meeting Hall** **Invited speaker: Prof. Kazuhiro Ogata** **A stratified way to mitigate the state space explosion in model checking** **Chair: Prof. Do Thanh Nghi, Prof. Huynh Xuan Hiep**
09:30 - 09:45	**COFFEE BREAK** **COFFEE BREAK**

	09:45 – 11:20 Session 6A: Knowledge, Data, and Soft Computing Venue: Meeting Hall Chair: Prof. Nguyen Thai Nghe, Dr. Tran Cong An		09:45 – 11:15 Session 6B: Text Mining from Social Media for Intelligent Systems Venue: Meeting Room 2 Chairs: Dr. Nguyen Van Hau, Dr. Phan Viet Anh
09:45 – 10:10	On the generalization of redundancy criteria for linguistic fuzzy rules *Nhung Cao, Martin Stepnicka and Radek Valasek*	09:45 – 10:05	Vietnamese Antonyms Detection Based on Specialized Word Embeddings using Semantic Knowledge and Distributional Information *Van-Tan Bui, Khac-Quy Dinh and Phuong-Thai Nguyen*
10:10 – 10:40	Integrating the Probabilistic Uncertainty to Fuzzy Systems in Fuzzy Natural Logic *Nguyen Linh*	10:05 – 10:30	A Targeted Topic Model based Multi-Label Deep Learning Classification Framework for Aspect-based Opinion Mining *Thi-Cham Nguyen, Thi-Ngan Pham, Hoang-Quynh Le, Tri-Thanh Nguyen, Hong-Nhung Bui and Quang-Thuy Ha*
10:40 – 11:00	An agent-based model for mixed traffic in Vietnam based on virtual local lanes *Tu Dang-Huu, Benoit Gaudou, Doanh Nguyen-Ngoc and Ngoc C. Le*	10:30 – 10:55	Vietnamese Document Classification Using Graph Convolutional Network *Huy-The Vu, Van-Hau Nguyen, Van-Quyet Nguyen and Minh-Tien Nguyen*
11:00 – 11:20	CityScope Hanoi: interactive simulation for water management in the Bac Hung Hai irrigation system *Arnaud Grignard, Tri Nguyen-Huu, Benoit Gaudou, Doanh Nguyen-Ngoc, Arthur Brugière, Tu H. Dang, Nghi Quang Huynh, Khanh Nguyen Trong and Kent Larson*	10:55 – 11:15	IoT Malware Detection based on LatentRepresentation *Cuong Nguyen Van, Viet Anh Phan, Van Loi Cao and Khanh Duy Tung Nguyen*
11:30 – 13:30	**LUNCH TIME**		
	AFTERNOON SESSION		

13:30 – 16:10 Session 7A: Intelligent Software and Knowledge Representation Venue: Meeting Hall Chairs: Prof. Do Van Nhon, Prof. Nguyen Dinh Hien		13:30 – 14:20 Session 7B: Knowledge Integration Technologies and Applications Venue: Meeting Room 2 Chair: Dr. Nguyen Nhi Gia Vinh, Dr. Tran Trong Hieu	
13:30 – 13:50	An approach for semantic-based searching in learning resources *Tran Thanh Dien, Le Van Trung and Nguyen Thai-Nghe*	13:30 – 13:50	Extracting triples from Vietnamese text to create knowledge graph *Huong Duong To and Phuc Do*
13:50 – 14:15	Monitoring Rice Crop with Dense Segmentation on Satellite Images: A case study in Vietnamese Mekong Delta *Le Hoang Duong, Hoang Thanh Dat, Nguyen Thanh Chung, Vu Tuyet Trinh, Nguyen Thanh Hung and Quyet-Thang Huynh*	13:50 – 14:20	Isolated Handwritten Balinese Character Recognition from Palm Leaf Manuscripts with Residual Convolutional Neural Networks *Dewa Made Sri Arsa, Gusti Agung Ayu Putri, Remmy Zen and Stephane Bressan*
14:15 – 14:40	An interactive method for surrogate-assisted multi-objective evolutionary algorithms *Dinh Nguyen Duc, Long Nguyen and Kien Thai Trung*	**COFFEE BREAK** **14:30 – 16:05** **Session 7C: Data Science for Business (1)** **Venue: Meeting Room 2** **Chairs: Dr. Nguyen Quang Thuan, Dr. Tran Duc Quynh**	
14:40 – 14:55	**COFFEE BREAK**	14:30 – 14:55	Influent Factors to Individual Online Consumer Behavior: A Vietnamese Case Study *Thuy Nguyen Thi Thu, Dung Nguyen Duy Chi, Trung Nguyen Chi, Huy Vu Quang and Trang Nguyen Thi Van*
14:55 – 15:20	Rotat3D: A Knowledge Graph Embedding using Relational Rotation in 3D Vector Space *Quan Dang, An Mai, Man Ngo and Thanh Bui*	14:55 – 15:15	Applications of fuzzy programming for solving portfolio optimization problems: Some aspects of modeling and computing *Nguyen Hai Thanh*

15:20 – 15:45	Build a search engine for the knowledge of the course about Introduction to Programming based on ontology Rela-model *Xuan-Thien Pham, Tuan-Vi Tran, Van-Thanh Nguyen-Le, Vuong T. Pham and Hien D. Nguyen*	15:15 – 15:40	A new similarity measure of IFSs and its applications *Tran Duc Quynh, Nguyen Xuan Thao, Nguyen Quang Thuan and Nguyen Van Dinh*
15:45 – 16:10	A deep learning approach for solving Poisson's equations *Thanh Nguyen, Binh Pham, Trung T. Nguyen, and Binh T. Nguyen*	15:40 – 16:05	A data-driven approach to evaluate the social media post and its role in influencing customers *Pham Thi Viet Huong and Tran Anh Vu*

END OF DAY 2

DAY 3 (November 14, 2020) **College of Information and Communication Technology, Can Tho University** Campus II, 3/2 street, Ninh Kieu district, Can Tho city, Viet Nam

MORNING SESSION

08:30 – 10:05 **Session 8A: Data Science for Business (2)** **Venue: Meeting Hall** **Chairs: Dr. Ngo Ba Hung, Dr. Duong Trung Nghia**		**08:30 – 11:15** **Session 8B: Bioinformatics and Computational Biology (1)** **Venue: Meeting Room 2** **Chair: Prof. Do Phuc, Dr. Vo Sy Nam**	
08:30 – 08:55	Airline Stock Performance: PRASM, RASM or Profit? *Le Duc Thinh and Nguyen Ngoc Lam*	08:30 – 08:55	Siamese KG-LSTM: A deep learning model for enriching UMLS Metathesaurus synonymy *Tien T. T. Tran, Sy V. Nghiem, Van T. Le, Tho T. Quan, Vinh Nguyen, Hong Yung Yip and Olivier Bodenreider*
08:55 – 09:20	Solving Inventory Routing Problem with Logistic Ratio via DC programming *Ta Anh Son and Nguyen Chi Thao*	08:55 – 09:20	A new method on lncRNA-disease-miRNA tripartite graph to predict lncRNA-disease associations *Van Tinh Nguyen, Thi Tu Kien Le and Dang Hung Tran*

09:20 – 09:40	Improving the bankruptcy prediction by combining some classification models *Tran Duc Quynh and Tran Thi Lan Phuong*	09:20 – 09:45	Application of Next-generation Sequencing: A Mini-Review in Plant Kingdom *Hoang Dang Nguyen and Hoang Dang Khoa Do*
09:40 – 10:05	A BERT-based Hierarchical Model for Vietnamese Aspect Based Sentiment Analysis *Oanh Thi Tran and Viet The Bui*	09: 45 – 10:00	**COFFEE BREAK**
COFFEE BREAK **10:15 – 11:30** **Session 8C: Bioinformatics and Computational Biology (2)** **Venue: Meeting Hall** **Chair: Prof. Le Sy Vinh, Dr. Luu Tien Dao**		10:00 – 10:25	iK-means: an improvement of k-means method to partition alignments *Thu Kim Le, Vinh Sy Le, Dong Do Duc, Thang Bui Ngoc and Thao Nguyen Thi Phuong*
10:15 – 10:40	Disease subtyping using community detection from consensus networks *Hung Nguyen, Bang Tran, Duc Tran, Quang-Huy Nguyen, Duc-Hau Le and Tin Nguyen*	10:25 – 10:50	Normal and Abnormal Heart Rates Recognition Using Transfer Learning *Tarik Alafif, Mehrez Boulares, Ahmed Barnawi, Talal Alafif, Hassan Althobaiti and Ali Alferaidi*
10:40 – 11:05	pQMaker: empirically estimating amino acid substitution models in a parallel environment *Nguyen Duc Canh, Cuong Cao Dang, Le Sy Vinh, Bui Quang Minh and Diep Thi Hoang*	10:50 – 11:15	An investigation of cancer cell line-based drug response prediction methods on patient data *Giang Nguyen, Hoang Le, Vu-Tung Dang, Tung Nguyen, Hien Dang and Duc-Hau Le* *Giang T.T. Nguyen, Le Duc Hoang, Quynh Diep Nguyen, Tung T. Nguyen,* *Hien T.T. Dang and Duc-Hau Le*
11:05 – 11:30	Analysis of Short-read Aligners using Genome Sequence Complexity *Quang Tran, Nam Sy Vo, Eric Hicks, Tin Nguyen and Vinhthuy Phan*		

Can Tho city Tours

College Information Technology - Can Tho University ☆
Bản đồ này do người dùng tạo. **Tìm hiểu cách tạo bản đồ của riêng bạn.**