

Sixth International Conference on Real-Time Intelligent Systems (RTIS 2024)

Tien Giang University - October 17-18, 2024

RTIS 2024 Program

VENUE: Than Cuu Nghia Campus, Tien Giang University

Day 1: October 17, 2024

Time	Content	Presenter
Opening Ceremony at Room B242 (Phòng Khánh Tiết)		
07:30 – 8:00	Welcoming and Registration	
08:00 - 8:10	Introduction of Tien Giang University	Video presentation
08:10 - 8:20	Welcome speech and introduce delegates	MC
08:20 - 8:45	Opening speeches and thanks from organizers	Assoc. Prof. Dr. Vo Ngoc Ha President of Tien Giang University Dr. Pit Pichappan Senior Scientist @ Digital Information Research Labs, India & UK
08:45 - 9:05	New Services of Clarivate Analytics (Web of Science)	
09:05 - 9:15	Gift and Certificate from Organizer for Chairpersons	
09:15 - 9:45	Tea break and Group photo	
9:45 - 10:45	RTIS 2024 - Plenary session Room: B242 (Phòng Khánh Tiết)	
Chairpersons 1. Dr. Le Minh Tung, Vice-President of Tien Giang University 2. Dr. G.G. Shankar Lingam, Chaitanya University		
09:45 - 10:15	Keynote 1: AI-Driven Real-Time Intelligent Systems: Shaping the Future of Digital Knowledge Management	Associate Professor, Phayung Meesad Director of Central Library King Mongkut’s University of Technology North Bangkok
10:15- 10.45	Keynote 2: Application of Artificial Intelligence in Smart Agriculture	Assoc.Prof.Dr. Thanh-Nghi Doan Dean of Faculty of Information Technology Director of Center of Information and Communication Technology. An Giang University, Vietnam National University
11:45 - 13:00	Lunchtime	

RTIS 2024 Program

Day 1: October 17, 2024

RTIS 2024 Program		Day 1: October 27, 2024	
13:00 - 16:40	RTIS 2024 – Session 1 (9 papers) Room: B242 (Phòng Khánh Tiết)		
Chairpersons: 1. Dr. Van-Hieu Duong (Tien Giang University) 2. Assoc.Prof.Dr.Phayung Meesad (King Mongkut’s University of Technology North Bangkok) 3. Dr.SRIDHAR MANDA, Balaji Institute of Technology & Science, India			
13:00 – 13:20	An Internet of Things (IoT) Speech Recognition System to improve the performance of Emotion Detection <i>Sridhar Manda, Shankar Lingam Macharla</i>		

13:20 – 13:40	From DCGAN to DCGAN-BERT: An Improvement Using DCGAN for Multimedia Data Generation Problems <i>Authors: Ngoc-Giau Pham, Van-Hieu Duong, Phuoc-Hung Vo, Hong-Ngoc Tran</i>
13:40 – 14:00	Z-number Soft Expert Set With Decision-Making Application in Medical Diagnosis <i>Authors: Tri Duong, My-Phuong Ngo, Thanh Nha Nguyen, Ai Linh Nguyen, Trang Nguyen</i>
14:00 – 14:20	An Approach of Fuzzy-enhanced Multi-viewed Image Embedding Fusion for Spinal Disease Detection <i>Authors: Thinh D. Le, Vu Tran, Quang-Thinh Bui, Minh Luong, Trieu Hoang, Triet Bui, Hue Nguyen, Thao Truong, Phu Pham</i>
14:20 – 14:40	Understanding Conventional Deep Learning Models Through the Lens of Topological Data Analysis Using the Mapper Algorithm <i>Authors: Quang-Thinh Bui, Thac Nguyen, The-Bang Nguyen, Son Nguyen, Bay Vo</i>
14:40 – 15:00	Tea Break
15:00 – 15:20	Sequential Fine-Tuning Deep Learning for Lung Disease Classification based on X-Ray images. <i>Authors: Phuoc-Hai Huynh</i>
15:20 – 15:40	PageRank-Based Context-Aware Collaborative Filtering <i>Authors: Lien Do Thi, Phuong Nguyen Duy</i>
15:40 – 16:00	Multi-dimensional Data Encryption in IoT-Enabled Healthcare <i>G. Shankar Lingam, M. Shankar Lingam</i>
16:00 – 16:20	Method for Mining Multi-level High-efficiency Itemsets from the Taxonomy Database <i>Authors: Quang-Thinh Bui, Trong-Duc Le, Bang-Trinh Nguyen, Bao Huynh, Tung Nguyen</i>
13:00 - 16:40	RTIS 2024 – Session 2 (9 papers) Room: B243
Chairpersons: <ol style="list-style-type: none"> Professor Dr. Hiep Xuan Huynh (Can Tho University) Dr. Phuoc-Hai Huynh (An Giang University - Vietnam National University of Ho Chi Minh City) Dr.A. ARUN KUMAR, M.L. Reddy Institute of Technology, India 	
13:00 – 13:20	A Novel PySpark Model in Predicting Vietnamese Students' Sentiment <i>Authors: Tuan Nguyen, Phayung Meesad, Van-Hieu Duong</i>
13:20 – 13:40	Fuzzy Xgboost Algorithm For Solving Fake News Detection Problem On Social Networks <i>Authors: Quoc Phan Tan, Duy Nguyễn Châu Hiếu</i>
13:40 – 14:00	Alzheimer's Disease (AD) identification using Artificial Intelligence (AI) <i>Sridhar Manda, Arun Kumar A</i>
14:00 – 14:20	A Framework for Food Tray Analysis in a Food Stall in Vietnam <i>Authors: Chuong Tran, Loan T.T. Nguyen</i>
14:20 – 14:40	Proposing the Combination of PhoBERT and GPT for Vietnamese Text Sentiment Analysis <i>Authors: Duy Tran Nguyen, Khoi Vo Tuan, Thanh Tao Gia, Tong Nguyen Quy, Quoc Phan Tan</i>
14:40 – 15:00	Tea Break
15:00 – 15:20	Enhancing Automated Ocular Disease Classification Based on Deep Learning: Optimization and Web-Based Deployment for Comprehensive Ophthalmic Diagnosis <i>Authors: Duc-Thinh Pham Le, Nam-Anh Dang Nguyen, Duy-Tan Le, An Mai, Thanh-Binh Nguyen, Ngoc-Giau Pham, Viet-Tuyen Nguyen Tan</i>
15:20 – 15:40	Performance of Transformer and Pytorch In Predicting Students' Sentiment <i>Authors: Tuan Nguyen, Phayung Meesad, Van-Hieu Duong</i>
15:40 – 16:00	An Efficient Method for Hiding High Average Sensitive Utility Itemset in Transaction Databases <i>Authors: Chien Nguyen Khac, Thanh Nha Nguyen</i>
16:00 – 16:20	Attention-Enhanced CNN Model for Tomato Disease Diagnosis from Leaf Images <i>Authors: Thien Doanh Le, Phuc Pham Tran Anh, Huynh Phuong Thanh Nguyen, Lê Huy Pham, Ngoc Giau Pham, Kha Tu Huynh, Thien Trang Ly</i>
13:00 - 16:40	RTIS 2024 – Session 3 (5 papers+5 papers) Room: B209
Chairpersons: <ol style="list-style-type: none"> Dr. Quang-Thinh Bui (Tien Giang University) Dr. S.Perumal, Vels University, India Dr. A.S.Arunchalam, Vels University, India Hong-Ngoc Tran, Vietnamese-German University 	
13:00 – 13:20	Harnessing Deep Learning for Scalp and Hair Disease Classification: A Comparative Study of Convolutional Neural Networks Architectures

	<i>Authors: Nam-Anh Dang Nguyen, Binh-Nguyen Le Nguyen, An Mai, Minh-Hien NguyenThi, Ngoc-Giau Pham, Viet-Tuyen Nguyen Tan</i>
13:20 – 13:40	Celerity Drive: Innovating File Storage and Sharing with Enhanced Security and Scalability <i>Authors: Binh Nguyen Le Nguyen, Nam Anh Dang Nguyen, Thuong Truong Tran Nguyen, Duy Tan Le, Hoang Nam Le, Van Noi Nguyen</i>
13:40 – 14:00	Initial Study on a Mechanical Starting Mechanism for Two-Stroke Free Piston Engine <i>Authors: Thi Nguyen Huynh, Huy Dao Huu, Loc Huynh Van, Hiep Truong Hoa, Trang Nguyen Van, Cong Huynh Thanh</i>
14:00 – 14:20	Medical Visual Question Answering: A systematic review <i>Authors: Huy Pham Le, Anh Quan, Thien Doanh Le, Thien Trang Ly, Kha Tu Huynh</i>
14:20 – 14:40	Modelling the effect of types and concentrations of sugar on hardness and overall acceptability of freeze-dried “Sáp” coconut meat: An artificial intelligent approach <i>Authors: Le Thi Kim Loan, Huynh Thi Kim Chi, Chaikut Mansamut, Ngo Van Tai</i>
14:40 – 15:00	Tea Break
15:00 – 15:20	Investigating the Use of Differential Security Approaches for Safeguarding Complex Information in Blockchain-Based Frameworks <i>Authors: Premkumar T, Krithika D.R</i>
15:20 – 15:40	Tracking Software Security Topics <i>Authors: Phong Vu, Tung Nguyen</i>
15:40 – 16:00	Comparative Study of Machine Learning Models for Glaucoma Detection Based on Retinal Images <i>Authors: BA Mandicou, Amadou MBAYE, Idy DIOP, Alassane BAH</i>
16:00 – 16:20	Design and Analysis of the BlockCryptoCloud Algorithm on Cryptography <i>Authors: LAKSHMI T S, JAYAMANGALA H</i>
19:00 – 20:30	Dinner
MyTho Marina	
Day 2: October 18, 2024	
RTIS 2024 Online sessions	
08:30 – 11:10	RTIS 2024 –Session 4 (11 papers) Physical room: B243; Online room link:
Chairpersons: <ol style="list-style-type: none"> 1. Prof.Dr. Phayung Meesad (King Mongkut’s University of Technology North Bangkok) 2. Dr. Van-Hieu Duong (Tien Giang University) 3. Dr. S.Perumal, Vels University, India 4. Dr. A.S.Arunchalam, Vels University, India 	
08:30 – 08:50	Network Intrusion Monitoring Based on Margin Distance Pruning and RF Algorithm <i>Xiangming Gou, Md Gapar Md Johar, Jacqueline Tham</i>
08:50 – 09:10	An Android Malware Detection Method Based on MLSTM <i>Yi Liu, Md Gapar Md Johar, Jacqueline Tham</i>
09:10 – 09:30	Research on Software Performance Testing of Big Data Platforms Based on Clock-Controlled Computation Tree Logic <i>Yuan Sun, Md Gapar Md Johar, Jacqueline Tham</i>
09:30 – 09:50	Integration of Machine Learning Algorithms for Land Classification using Satellite Image <i>Authors: J. Chinnakamma Devi, R Mahalakshmi</i>
09:50 – 10:10	Accounting Fraud Detection Research Based on BP Neural Network Method <i>Authors: Lin Liu, Xin Meng, Yucui Bai, Ran Chen</i>
10:10 – 10:30	Deep Learning for Encrypted Traffic Classification and Unknown Data Detection <i>Authors: Ramakrishnan B, Dr. Meenakshi C</i>

10:30 – 10:50	Comparative Study of Machine Learning Models for Glaucoma Detection Based on Retinal Images <i>Authors: BA Mandicou, Amadou MBAYE, Idy DIOP, Alassane BAH</i>
10:50 – 11:10	Research on University English Teaching and Evaluation Methods Based on Neural Networks <i>Authors: Wen Zhang</i>
11:10 – 11:30	Road Construction Safety Assessment Algorithm based on AHP and BP Neural Network Integration <i>Authors: Binbin Gong</i>
11:30 – 11:50	Algorithm Course Ideological and Political Construction and Teaching Practice under the Big Data Mining Framework <i>Authors: Yanhua Su, Xinzhe Dai, Xuefeng Hu</i>
RTIS 2024 - Session 5 (12 papers) Physical room: B209; Online room link:	
Chairpersons <ol style="list-style-type: none"> Dr. S. Prasanna (VELS University) Dr. Ho Nguyen Diem Tien (Tien Giang University) Dr. SRIDHAR MANDA, Balaji Institute of Technology & Science, India Dr. A. ARUN KUMAR, M.L. Reddy Institute of Technology, India 	
08:30 – 08:50	Optimization Analysis of Volleyball League Schedule Based on Support Vector Machine <i>Authors: Chang Liu</i>
08:50 – 09:10	China's Regional Carbon Emission Prediction and Low-carbon Path Analysis Based on BP Neural Network Model <i>Authors: Zhao Chen</i>
09:10 – 09:30	Intelligent Algorithms for Remote Classroom Physical Education Teaching Based on 5G Communication Technology <i>Authors: Gong Ning</i>
09:30 – 09:50	Association Analysis of Physical Health of Vocational College Students Based on Third Party and Apriori Algorithm <i>Authors: Nan Zhang</i>
09:50 – 10:10	Design of Multi-DOF Sorting Control System for Robotic Arm Based on RBF-BP Algorithm <i>Authors: Yonggang Wang</i>
10:10 – 10:30	Application of Virtual Reality Technology in Digital Media System Design <i>Authors: Zhenhuan Jia</i>
10:30 – 10:50	Research on Multi Venue Basketball Match Scheduling Based on Simulated Annealing Algorithm <i>Authors: Haiping Che</i>
10:50 – 11:10	Application and Research of Data Mining Technology and Tactics Analysis of Basketball Game <i>Authors: Lei Li</i>
11:10 – 11:30	Research on Decision Tree Algorithm in Intelligent Evaluation of English Teaching Effect <i>Authors: Chunfen Gong</i>
11:30 – 11:50	Investigation of the Application of Incentive Theory Based on Data Mining Algorithm in Track and Field Training <i>Authors: Zhao Chen</i>
11:50 – 12:10	Evaluation of Financial Information Quality of Northwest Listed Companies Based on Artificial Neural Networks <i>Authors: Xin Meng,, Lin Liu, Shanshan Wu, Ran Chen, Yucui Bai</i>
12:10 – 12:40	Evaluation of MANET Routing Protocols: An AODV, DSR, and DSDV Perspective <i>Authors: ARAVIND A, Dr. POONGODI A</i>
Day 3: 19 October, 2024	
09:00 – 15:00	Mekong Tour

Conference Venue

**TIEN GIANG UNIVERSITY, Than Cuu Nghia campus, Than Cuu Nghia commune, Chau Thanh district,
Tien Giang province**

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