

rice 2020  
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## CONFERENCE SCHEDULE

### Session-01 : Smart Manufacturing – Industry 4.0

09.00 AM – 12.00 AM  
(03 Hr @15 Min each paper/12 Paper each session)

### Session-02 : Deep Learning for Intelligent Systems

09.00 AM – 12.00 AM  
(03 Hr @15 Min each paper/12 Paper each session)

### Session-03 : Artificial Intelligent and Machine Learning

09.00 AM – 12.00 AM  
(03 Hr @15 Min each paper/12 Paper each session)

### Session-04 : IOT Acosystem and Application

09.00 AM – 12.00 AM  
(03 Hr @15 Min each paper/12 Paper each session)

### Session-05 : Signal Processing & Network Communication

09.00 AM – 12.00 AM  
(03 Hr @15 Min each paper/12 Paper each session)

### Session-06 : Advances in Modern AI and Healthcare

09.00 AM – 12.00 AM  
(03 Hr @15 Min each paper/12 Paper each session)

### Session-07 : Wireless sensor network and Applications

09.00 AM – 12.00 AM  
(03 Hr @15 Min each paper/12 Paper each session)

### Compilation of Presentation, Discussion for Best paper awards

### Inaugural Session RICE20 by TDMU Leaders

02.00 PM- 02.30 PM

### Welcome Speech by Program Chair/Organizing

2.35 PM – 2.50 PM

### Keynote Session - 01

Exoskeleton Robots for Rehabilitation: Kinematics and Jacobian Analysis  
Speaker: Manuel Cardona, Universidad Don Bosco, El Salvador  
2.55 PM – 03.15 PM

### Keynote Session - 02

Energy efficient Obstacle Aware Routing Algorithm for MANET  
Speaker: Prasant Kumar Pattnaik, KIIT University, India  
03.20 PM – 03.40 PM

### Closing RICE2020 & Call for Paper for RICE2021

03.45 PM- 04.05 PM

RICE 2020  
June 3, 2020

The 5<sup>th</sup> International Conference on Research in Intelligent and Computing in Engineering, Thu Dau Mot University,

RICE2020 SCHEDULE

03 June 2020; Day One Schedule

	Session 1: Smart Manufacturing – Industry 4.0	Session 2: Deep Learning for Intelligent Systems	Session 3: Artificial Intelligent and Machine Learning	Session 4: IOT Acosystem and Application	Session 5: Signal Processing & Network Communication	Session 6: Advances in Modern AI and Healthcare Applications	Session 7: Wireless Sensor Network and Applications
	Chair: Dr. Chi Hieu Le , Dr. Anh My Chu	Chair: Dr. Bui Thanh Hung , Dr. Raghendra Kumar	Chair: Assoc. Prof. Le Tuan Anh, Dr. Brojo Kishore Mishra	Chair: Dr. Nguyen Van Tan, Dr. Souvik Pal	Chair: Dr. Nguyen Ha Huy Cuong, Dr. Rashmi Agrawal	Chair: Dr. Hoang Manh Ha, Dr. Manju Khari	Dr. Dr. Ho Duc Chung; Dr. Prasant Kumar Pattnaik
9:00	"Inverse Kinematics Analysis of Welding Robot IRB 1520ID Using Algorithm for Adjusting the Increments of Generalized Vector" <b>Chu Anh My, Duong Xuan Bien, and Le Chi Hieu</b>	"A Comparative Study to Classify Cumulonimbus Cloud using Pre-trained CNN" <b>Sitikantha Chattopadhyay, Souvik Pal, Pinaki Pratim Acharya, Sonali Bhattacharyya</b>	"Nonnegative Feature Learning by Regularized Nonnegative Matrix Factorization" <b>Viet-Hang Duong, Manh-Quan Bui, and Jia-Ching Wang</b>	"Internet of Things System Using the Raspberry Pi to Monitor a Small-Scale Server Room" <b>Nhu Q. Tran</b>	"Critical Research on the Novel Progressive, JOKER an Opportunistic Routing Protocol Technology for Enhancing the Network Performance for Multimedia Communications" <b>Ahmed J. Obaid</b>	"Fetal Heart Rate Monitoring using Photoplethysmography Techniques" <b>Ibrahim Patel</b>	"Distance Based Diagnosis of Intermittent Faulty Nodes in Wireless Sensor Networks" <b>Bhabani Sankar Gouda</b>
9:15	"Optimize the Feed Rate of 6-DOFs Robot in Parametric Domain Based on Kinematics Modeling" <b>Chu Anh My</b>	"Facial Expressions Recognition System using FPGA-Based Convolutional Neural Network" <b>Tai Nguyen Duong Phuc, Nam Nguyen Nhut, Nguyen Trinh, Linh Tran</b>	"Comparative Analysis of Machine Learning Algorithms for Hybrid Sources of Textual Data: In Development of Domain Adaptable Sentiment Analysis Model" <b>Vaishali Arya and Rashmi Agrawal</b>	"A User Specific APDS for Smart City Applications" <b>Goutam Kumar Sahoo</b>	"Genetic algorithm aided received signal strength maximization in NLOS visible light communication" <b>Tahesin Samira Delwar</b>	"En efficient Image based Skin Cancer classification framework using Neural Network" <b>Tejasvi Ghanshala</b>	"Empirical Analysis of Energy Efficient Hybrid Protocol under Black Hole Attack in MANETs" <b>PRİYANKA SINGH</b>
9:30	"Fuzzy Logic Simulation for Classifying Abrasive Wheels in Pendulum Grinding" <b>Van Canh Nguyen</b>	"Facial Expression Recognition with CNN-LSTM" <b>Bui Thanh Hung, Le Minh Tien</b>	"Study on model reduction algorithm based on Schur analysis" <b>Ngoc Kien Vu, Hong Quang Nguyen, Kien Trung Ngo, and Phuong Nam Dao</b>	"MONGODB VS MYSQL: A Comparative Study of Two Python Login Systems Based on Data Fetching Time" <b>Shrikant Patel, Sanjay Kumar, Sandhya Katiyar, Raju Shanmugam, Rahul Chaudhary</b>	"A 24 GHz Wide-Tuning-Range CMOS Digitally Controlled Oscillator for Automotive Radar" <b>Abrrar Siddique</b>	"Region-based Space Filling Curve for Medical Image Scanning" <b>Ashan Eranga Kudabalage</b>	"Distance Based Diagnosis of Intermittent Nodes in Wireless Sensor Networks" <b>Bhabani Sankar Gouda</b>
9:45	"A Comparative Study of Machine Learning Algorithms in Predicting the Behavior of Truss Structures" <b>Tran-Hieu Nguyen</b>	"Tracking Control of Parallel Robot Manipulators Using RBF Neural Network" <b>Vu Le Huy, Nguyen Dinh Dzung</b>	"Sentiment Analysis Model and Its Role in determining Social Media's Influence on Decision Making" <b>Praneet Amul Akash Cherukuri, Nguyen Thi Dieu Linh, Shreya Indukuri, and SreecharanNuthi</b>	"Literature Review: Real time water quality monitoring and management" <b>Deepika Gupta</b>	"Energy Efficient Cluster head selection for Wireless Sensor Network using Fuzzy Logic" <b>Kusum Lata Jain</b>	"Classification of Gait Patterns using Overlapping Time Displacement of Batchwise Video Subclips" <b>Khang Nguyen</b>	"A load balancing VMs migration approach for multi-tier application in cloud computing based on Fuzzy set and Q-Learning algorithm" <b>Linh V. Nguyen</b>
10:00	"Additive manufacturing of thin-wall steel parts by gas metal arc welding robot: the shape, microstructures and mechanical properties" <b>Van Thao Le</b>	"An IoT based Air Quality Monitoring with deep learning model System" <b>HarshitSrivastava, Kailash Bansal, Santos Kumar Das, and SantanuSarkar</b>	"Job Recommendation: An Approach to Match Job-Seeker's Interestwith Enterprise's Requirement" <b>Ngoc-Trung-Kien Ho, Hung Ho-Dac and Tuan-Anh Le</b>	"Industrial LoRaWAN network for Danang city: solution for long-range and low-power IoT applications" <b>Ngo Dinh Thanh</b>	"Importance of the considering bottleneck intermediate node during the intrusion detection in MANET" <b>Arshad Ahmad Khan Mohammad</b>	"Explosive Gas Detection and Alert System Using Internet of Things" <b>Manuel Cardona</b>	"Fuzy Lexicon Based Approach for Sentiment Analysis of Blog and Microblog Text" <b>Srishti Sharma, Vaishali Kalra</b>
10:15	"Smart Wheelchair Remotely Controlled by Hand Gestures" <b>Hemlata Sharma</b>	"Automated Currency Recognition Using Neural Networks" <b>Abhishek Jain, Paras Jain, and Vikas Tripathi</b>	"An Approach to Human Resource Demand Forecasting Based on Machine Learning Techniques" <b>Kim-Son Nguyen, Hung Ho-Dac, Van-Tai Tran, and Tuan-Anh Le</b>	"Enhancing Security and Trust of IoT Devices – Internet of Secured Things (IoST)" <b>Asha Rashmi Nayak</b>	"Analysis of Ransomware, Methodologies used by attackers and Mitigation techniques" <b>JimadaShivaram, Nguyen Thi Dieu Linh, Jahanavi Sanda, and Vududala Sai Kiran</b>	"Security and Privacy in IOT" <b>Devender Bhushan</b>	"Modified Q-Learning Algorithm for Discrete-Time Linear Periodic Systems" <b>Tien Hoang Nguyen , Hong Quang Nguyen and Phuong Nam Dao</b>
10:30	"Development of a stimulated model of smart manufacturing using the IoT and industrial robot integrated production line" <b>Thanh T. Tran</b>	"Vietnamese Named Entity Recognition Using Bidirectional LSTM" <b>Bui Thanh Hung</b>	"Output Feedback Adaptive Reinforcement Learning Tracking Control for Wheel Inverted Pendulum Systems." <b>Anh Duc Hoang, Hong Quang Nguyen, Phuong Nam Dao and Tien Hoang Nguyen</b>	"Recent Trends in Data Ingestion Tools : a study" <b>Garima Sharma</b>	"Improved Doppler Radar Target detection method using Quad Code Sequence Generation" <b>Rajkumar D Bhure</b>	"Improved Electric Wheelchair Controlled by Head Motion" <b>He-Thong Bui</b>	"A Survey on Hybrid Intrusion Detection Techniques" <b>Nitesh Singh Bhati, Manju Khari</b>
10:45	"Reinforcement Learning based Adaptive Optimal Strategy in Robotic Control Systems" <b>Hong Quang Nguyen</b>	"Face Recognition Using Hybrid HOG-CNN Approach" <b>Bui Thanh Hung</b>	"Assessment of Annual Average Temperature by Clustering Algorithm" <b>Arindam Roy, Dharmpal Singh, Sudipta Sahana, Pranati Rakshit, Souvik Pal</b>	"Infrastructure as a Service (IaaS) for Smart Education" <b>Nguyen Trong Tung</b>	" Functional Encryption of Floating Point ALU using Weighted Logic Locking for Enhanced Security" <b>Bihag Rajeev</b>	"Using feature selection based on multi-view for rice seed images classification" <b>Dzi Lam Tran Tuan and Vinh Truong Hoang</b>	"An application of vision systems for the inspection of two-dimensional entities in a plane" <b>Van Thao Le, QuangHuy Hoang, DucManh Dinh, Yann Quinsat</b>
11:00	"Cost-Effective Solution for Integration and Control of a Robotic Cell in Hot Forging Industry" <b>Chu Anh My</b>	"Topic-Guided RNN Model for Vietnamese Text Generation" <b>Dinh-Hong Vu and Anh-Cuong Le</b>	"Process parameter optimization for incremental forming of aluminum alloy 5052-H32 sheets using back propagation neural network" <b>Xiao Xiao</b>	"Robust Compensation Fault-Tolerant Control Based on Sensor Fault Estimation Using Augmented System for DC Motor" <b>Tan Nguyen Van</b>	"An application of vision systems for the inspection of two-dimensional entities in a plane" <b>Van Thao Le</b>	"Classification of Parkinson's Disease Associated Gait Patterns" <b>Khang Nguyen, Jeff Gan Ming Rui, Binh P. Nguyen, Matthew Chin Heng Chua and Youheng Ou Yang</b>	"Cold start problem resolution using Bayes Theorem" <b>Deepika Gupta, Anika Nainwal and Bhaskar Pant</b>
11:15	"The Role of Big Data Analytics and AI in Smart Manufacturing: An Overview" <b>Chu Anh My</b>	"Flexible Convolution in Scattering Transform and Neural Network" <b>Dinh-Thuan Dang</b>	"A load balancing VMs migration approach for multi-tier application in cloud computing based on Fuzzy set and Q-Learning algorithm" <b>Khiet T. Bui, Linh V. Nguyen, Tai V. Tran, Tran-Vu Pham and Hung C. Tran</b>	"Application of MicroStation and Tk-tool in assessing the current status and the change of agricultural land in Ben Cat town from 2014 to 2019" <b>Dang Trung Thanh</b>	"Detection of DoS, DDoS Attacks in Software-Defined Networking" <b>Truong Dinh-Tu</b>		"Probabilistic model using Bayes Theorem research paper recommender system" <b>Ankita Nainwal, Deepika Gupta, and Bhaskar Pant</b>
11:30	"Forward and Inverse Kinematics Analysis of a Spatial Three-Segment Continuum Robot" <b>Chu Anh My</b>	"Assessment of Structural Integrity using Machine Learning" <b>T.-V. Hoang, V.-X. Tran, V. D. Nguyen, Q. H. Nguyen2, and V. S. Bui</b>	"Model Reduction in Schur Basic with Pole Retention and H2 - norm Error Bound" <b>Ngoc Kien Vu, Hong Quang Nguyen, Kien Trung Ngo1 and Phuong Nam Dao</b>		"Actuator Fault Estimation Using Observer-Reconstruction for Nonlinear DC Motor Under Effects of The Temperature" <b>Ha Xuan Vinh</b>		
11:45	"Development of a New 6 DOFs Welding Ro botic System for a Specialized Application" <b>Duc-Hoang Chu</b>		"Cross-domain using Composing of Selected DCT Coefficients Strategy with Quantization Tables for Reversible Data Hiding in JPEG image" <b>Pham Quang Huy, Ta Minh Thanh, Le Danh Tai, and Pham Van Toan</b>		"Sliding Mode Control based Output Feedback Adaptive Dynamic Programming algorithm for Uncertain Wheel Inverted Pendulum Systems" <b>Phuong Nam Dao and Hong Quang Nguyen</b>		

04 June 2020; Day Two Schedule

09:00-12:00	Video presentation Session
13:00-13:30	Keynote Session End
13:30-14:00	RICE Team Meeting & Discussion
14:00-14:30	Closing RICE2020 & Launch of RICE2021 Webpage