

International Conference on Computing Science, Communication and Security (COMS2)

List of Accepted Research Papers

Sr. No.	Title	Contributors Name and Affiliations
1	Floor plan recognition and vectorization using combination UNet, Faster-RCNN, statistical component analysis and Ramer-Douglas-Peucker	Ilya Y. Surikov ^{1,2} [0000-0003-0255-9169], Mikhail A. Nakhatovich ^{1,2} [0000-0002-6279-1130], Sergey Y. Belyaev ¹ [0000-0003-3765-9469], and Daniil A. Savchuk ^{1,2} [0000-0002-1005-2125] 1 Peter the Great St. Petersburg Polytechnic University (SPbPU), Russia, 195251, St. Petersburg, Polytechnicheskaya, 29 2 ITSociety LTD, Russia, 194100, St. Petersburg, Diagonalnaya 4-1-170
2	Multiclass MI-Task Classification using Logistic regression and Filter Bank Common Spatial Patterns	Md. Mahmudul Haque Joy ¹ [0000-0002-2910-0369], Mohammad Hasan ¹ [0000-0002-1972-3239], Abu Saleh Musa Miah ^{1*} [0000-0002-1238-0464], Abir Ahmed ¹ [0000-0002-9798-1663], Sadia Anwar Tohfa ¹ [0000-0002-2578-8290], Md. Farukul Islam Bhuiayan ¹ [0000-0001-9407-7719], Md Mamunur Rashid ¹ [0000-0002-8953-5487], Ashrafun Zannat ¹ [0000-0001-6678-0562] 1 Department of CSE, Bangladesh Army University of Science and Technology (BAUST), Saidpur, Bangladesh
3	Ponte Message Broker Bridge Configuration using MQTT and CoAP Protocol for Interoperability of IoT	Madhavi Dave ¹ (0000-0001-6058-5440), Mohanish Patel ¹ , Dr. Jyotika Doshi ² , and Dr. Harshal Arolkar ² 1 Indus University, Ahmedabad, India 2 GLS University, Ahmedabad, India
4	Demystifying Computational Techniques used to Diagnose Tuberculosis	Dhruvi J. Ka Patel ^{*1} , Mosin I. Hasan ^{*2} , Narendar M. Patel ^{*3} * Birla Vishvakaram Mahavidyalaya, Engineering College, Vallabh Vidyanagar, Gujarat, India
5	Applications of classical and deep learning techniques for polar bear detection and recognition from aero photography	Mikhail A. Nakhatovich ^{1,2} [0000-0002-6279-1130], Ilya Y. Surikov ^{1,2} [0000-0003-0255-9169], Dr. Vladimir Chernook ³ [0000-0002-4091-1031], Natalia Chernook ³ [0000-0002-9857-3194], Daniil A. Savchuk ^{1,2} [0000-0002-1005-2125] 1 Peter the Great St. Petersburg Polytechnic University (SPbPU), Russia, 195251, St. Petersburg, Polytechnicheskaya, 29 2 ITSociety LTD, Russia, 194100, St. Petersburg, Diagonalnaya 4-1-170 3 Autonomous Non-Commercial Organization «Ecological Center «ECOFACOR», 194044, St. Petersburg, 11/1-10N Neyshlotskiy Lane
6	A New Channel-Aware Downlink Scheduling Algorithm for LTE-A and 5G HetNets	Flávio Alves Ferreira ¹ [0000-0002-5921-8974] and Paulo Roberto Guardieiro ² [0000-0003-4856-4510] 1 Instituto Federal do Triângulo Mineiro – IFTM, Paracatu/MG, Brasil 2 Universidade Federal de Uberlândia – UFU, Uberlândia/MG, Brasil

7	Color Image Watermarking in Encryption Domain	Rohit Thanki ¹ and Ashish Kothari ² 1 C. U. Shah University, Wadhwan City, Gujarat, India 2 Atmiya University, Rajkot, Gujarat, India
8	Coordinator controller election algorithm to provide failsafe through load balancing in Distributed SDN Control plane	Gaurang Lakhani(0000-0002-0570-175X), Dr. Amit Kothari ² 1Research Scholar Ph.D. (CE/IT) Gujarat Technological University, Ahmedabad, India 2Sr. Software Engineer, Accenture India,Bengaluru,India
9	"Prediction of Lung Cancer using Machine Learning Classifier"	Radhanath Patra 1 BU University, Odisha, India
10	Melanoma detection using HSV with SVM Classifier and De-duplication Technique to Increase Efficiency	Patil Mayura[1] , Nilima Dongre[2] (0000-0002-0141-290X) [1][2]Dept of Info. Tech., Ramrao Adik Institute of Technology, Nerul, Navi Mumbai
11	Indian Currency recognition from live video using Deep learning	Kushal Bhavsar ¹ , Keyurbhai Jani ² [0000-0002-6050-9365] 1U.V.Patel College of Engineering, Ganpat University, Mehsana - 384012, Gujarat, India 2Gujarat Technological University, Ahmedabad – 382424, Gujarat, India
12	ITS based OBU: A Fallback Mechanism in Vehicular Ad-hoc Network	BHAVIN A. KAYASTH ¹ [0000-0003-3129-5668] RACHNA M. PATEL ² [0000-0002-5685-756X] 1 Pacific School of Engineering, Surat, Gujarat, INDIA 2 C. G. Patel Institute of Technology, Uka Tarsadia University, Bardoli, Gujarat, INDIA
13	Emotion Classification with Reduced Feature Set SGDClassifier, Random Forest and Performance Tuning	Kaushika Pal ^{1*} [0000-0003-3638-0319], Biraj V. Patel ² [0000-0003-3069-6603] 1Sarvajanic College of Engineering & Technology, Surat, Gujarat, India 2G.H.Patel, P.G. Department of Computer Science & Technology, Sardar Patel University, V.V.Nagar, Gujarat, India
14	Deep Recurrent Neural Network with Tanimoto Similarity and MKSIFT Features For Medical Image Search and Retrieval	Hardik H Bhatt ¹ , Anand P Mankodia ² 1Research Scholar, Ganpat University, Gujarat,India 2Assistant Professor, Department of Electronics and Communication, Ganpat University, Gujarat,India
15	A new Approach to Solve Job Sequencing Problem using Dynamic Programming with Reduced Time Complexity	Tanzin Ahammad ¹ [0000-0003-4980-9858], Mahedi Hasan ¹ [0000-0002-7274-3909], Mohammad Hasan ² [0000-0002-1972-3239], Md. Sabir Hossain ^{1*} [0000-0003-4545-6872], Ariful Hoque ³ [0000-0003-06915108], Dr Md Mamunur Rashid ² [0000-0002-8953-5487] 1Chittagong University of Engineering & Technology, Chattogram, Bangladesh. 2Bangladesh Army University of Science & Technology, Saidpur, Bangladesh. 3Green University of Bangladesh Dhaka, Bangladesh.

16	Optimizing Complexity of Quick Sort	Md. Sabir Hossain1[0000-0003-4545-6872], Snaholata Mondal1[0000-0001-8611-4479], Rahma Simin Ali1[0000-0002-1997-5428], Mohammad Hasan2*[0000-0002-1972-3239] 1Chittagong University of Engineering & Technology, Chattogram, Bangladesh. 2Bangladesh Army University of Science & Technology, Saidpur, Bangladesh
17	A Method for Malware Detection in Virtualization Environment	Darshan Tank1* (0000-0002-5138-8979), Akshai Aggarwal1, and Nirbhay Chaubey2 (0000-0001-6575-7723), 1*Government Polytechnic (Rajkot), Gujarat Technological University, Ahmedabad, India 1School of Computer Science, University of Windsor, Windsor, Canada 2 Ganpat University, Kherva, India
18	Design of a Network with VANET sporadic Cloud Computing applied to Traffic Accident Prevention	Amelec Viloría1, Omar Bonerge Pineda Lezama2, Noel Varela3 1,3 Universidad de la Costa, Barranquilla, Colombia. 2Universidad Tecnológica Centroamericana (UNITEC), San Pedro Sula, Honduras, Colombia, America
19	Management system for optimizing public transport networks: GPS record	Jesús Silva1, Noel Varela2, Omar Bonerge Pineda Lezama3 1Universidad Peruana de Ciencias Aplicadas, Lima, Perú 2 Universidad de la Costa, Barranquilla, Colombia. 3Universidad Tecnológica Centroamericana (UNITEC), San Pedro Sula, Honduras, America
20	Optimization of driving efficiency for pre-determined routes: proactive vehicle traffic control	Amelec Viloría1, Omar Bonerge Pineda Lezama2, Noel Varela3 1,3 Universidad de la Costa, Barranquilla, Colombia. 2Universidad Tecnológica Centroamericana (UNITEC), San Pedro Sula, Honduras , America
21	Comparison of Bioinspired Algorithms Applied to replanning the software projects	Jesús Silva1, Noel Varela2, Omar Bonerge Pineda Lezama3 1Universidad Peruana de Ciencias Aplicadas, Lima, Perú 2 Universidad de la Costa, Barranquilla, Colombia. 3Universidad Tecnológica Centroamericana (UNITEC), San Pedro Sula, Honduras , America
22	Malware Detection Framework using PCA based ANN	Ms. Khyati Rami1, Dr. Vinod Desai2 1Mewar University, Chittorgarh, India
23	PREDICTING PASSENGER FLOW IN BTS AND MTS USING HYBRID STACKED AUTO-ENCODER AND SOFTMAX REGRESSION	Archana M. Nayak Ph.D. Research Scholar, Computer Engineering, Gujarat Technological University ,Gujarat, India Nirbhay Chaubey,Ganpat University,Mehsana, Gujarat, India
24	Crime Prediction Using Spatio-Temporal Data	Sohrab Hossain1*, Ahmed Abtahee1, Imran Kashem1, Mohammed Moshui Hoque2, and Iqbal H. Sarker2 1 Department of Computer Science & Engineering, East Delta University, Chittagong, Bangladesh. 2 Department of Computer Science & Engineering, Chittagong University of Engineering and Technology, Chittagong, Bangladesh.

25	Signature based malicious behavior detection in Android	Vikas Sihag ^{1,2} , Ashawani Swami ¹ , Manu Vardhan ² and Pradeep Singh ² 1 Sardar Patel University of Police, Security and Criminal Justice, Jodhpur 2 National Institute of Technology, Raipur, India
26	Cyber Security Intrusion Detection using Machine Learning Techniques	Hamed Alqahtani ^{1,6} , Iqbal H. Sarker ^{2 *} , Asra Kalim ³ , Sheikh Ikhlaq ⁴ , and Sohrab Hossain ^{2,5} 1 King Khalid University, Saudi Arabia. 2 Department of Computer Science & Engineering, Chittagong University of Engineering and Technology, Bangladesh. 3 Jazan University, Saudi Arabia. 4 Accenture Solutions Private limited, India. 5 East Delta University, Bangladesh. 6 Macquarie University, NSW-2109, Australia.
27	A Rule Based Expert System to Assess Coronary Artery Disease under Uncertainty	Sohrab Hossain ^{1*} , Dhiman Sarma ² , Rana Joyti Chakma ² , Wahidul Alam ³ , Mohammed Moshikul Hoque ⁴ and Iqbal H. Sarker ⁴ 1 Department of Computer Science & Engineering, East Delta University, Chittagong, Bangladesh. 2 Department of Computer Science and Engineering, Rangamati Science and Technology University, Rangamati, Bangladesh. 3 Department of Computer Science and Engineering University of Science and Technology Chittagong, Bangladesh. 4 Department of Computer Science & Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.