

PROGRAMME SCHEDULE

9th International Conference on Bio-inspired Computing and Applications (IBICA '18)
&
8th World Congress on Information and Communication Technologies (WICT 2018)

Date: 17th - 19th December 2018



Venue: Toc H Institute of Science & Technology,
Arakkunnam, Kochi, Kerala, India



Organized by: Department of Computer Science & Engineering, TIST
in association with MIR Labs (USA)



| Day 1: 17 th December 2018 | | |
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| 09.00 am - 03.00 pm | Registration | Venue: Aryabhata Block |
| 10.00 am - 04.00 pm | City Tour | |
| Day 2: 18 th December 2018 | | |
| 09.10 am - 10.10 am | Plenary Session 1 "On the Wiener Index Spanning Tree Problem" - Dr. Sheng-Lung Peng, National Dong Hwa University, Taiwan | Venue: Tagore Hall, Einstein Block |
| 10.10 am - 10.20 am | Coffee Break | |

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| 10.30 am - 11.30 am | Inaugural Ceremony | Venue: Ramanujan Hall, Aryabhata Block | |
| 11.30 am - 12.30 pm | Plenary Session 2 | Venue: Ramanujan Hall, Aryabhata Block | |
| | “Bio-Inspired Optimization of Type-2 Fuzzy Logic Systems” -Dr. Oscar Castillo, Tijuana Institute of Technology, Tijuana, Mexico | | |
| 12.30 pm - 01.30 pm | Lunch Break | | |
| 01.30 pm - 02.30 pm | Plenary Session 3 | Venue: Ramanujan Hall, Aryabhata Block | |
| | “New Computational Intelligence techniques in software reliability Engineering” -Dr.Florin Popentiu Vladicescu, University Politehnica of Bucharest, Romania | | |
| Paper Presentation Session I | | | |
| IBICA '18 | Venue: Ramanujan Hall, Aryabhata Block | | WICT '18 |
| 02.30 pm - 04.10 pm | 23 “A review on Human Action Recognition and Machine Learning techniques for Suicide Detection System” Rahul Chiranjeevi V, Elangovan D | | 02.30pm - 04.10pm |
| | 25 “EEG Signal Analysis using Wavelet Transform for Driver Status Detection” - Prabhavathi Nissimagoudar, Anilkumar Nandi, Gireesha M and AnupTorgal | | |
| | 30 “BMI Application: Accident Reduction using Drowsiness Detection” - Chirag Ghube, Anuja Kulkarni, Chinmayi Bankarnd Mangesh Bedekar | | |
| | 39 “Genre Based Classification of Hindi Music” Deepti Chaudhary, Niraj Pratap Singh and Sachin Singh | | |
| | 42 “A Novel Meta-heuristic Differential Evolution Algorithm for Optimal Target Coverage in Wireless Sensor Networks” | | |
| | | Venue: Digital Library, Aryabhata Block | |
| | | 27 “Generation of Hindi Word Embeddings and their Utilization in Ranking Documents using Negative Sampling Architecture, t-SNE Visualisation and TF-IDF based Weighted Average of Vectors “ Arya Prabhudesai | |
| | | 34 “Design and Performance of Millimeter Wave Antenna for the 5th Generation of Wireless Communication Systems Application” Drgiriraj Kumar and Santhosh Kumar Allemki | |
| | | 35 “Path Construction for Data Mule in Target Based Mobile Wireless Sensor Networks” Udit Kamboj, Vishal Prasad Sharma and Pratyay Kuila | |
| | | 39 “Learning to solve single variable linear equations by universal search with probabilistic program graphs” | |

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| | Pushparaj Shetty D and Chandra Naik 45 "Implementation of Threshold Comparator using Cartesian Genetic Programming on Embryonic Fabric" Gayatri Malhotra | | Swarna Kamal Paul, Prince Gupta and Parama Bhaumik 44 "Optimizing Probability of Intercept using XCS Algorithm", Ravindra Joshi and Dr Chandrashekhar N 45 "Reducing the negative effect of malicious nodes in Opportunistic networks Using Reputation based Trust Management", Smritikona Barai, Nupur Boral and Parama Bhaumik |
| 04.10 pm- 04.15 pm | Coffee Break | | |
| Paper Presentation Session II | | | |
| IBICA '18 | Venue:Ramanujan Hall, Aryabhata Block | WICT '18 | Venue: Digital Library, Aryabhata Block |
| 04.15 pm- 05.35 pm | 62 "EEG Feature Extraction and analysis for Driver Drowsiness Detection" Prabhavathi Nissimagoudar, Anilkumar Nandi, Gireesha M and AnupTorga 59" An Effective Approach for Party Recommendation in Voting Advice Application" Sharanya Nagarajan and Anuj Mohamed 60 "Fuzzy logic based Dynamic Plotting of Mood Swings from Tweets",SrishtiVashishtha and Seba Susan 61 "Application of Parallel Genetic Algorithm for Model-Based Gaussian Cluster Analysis" Peter Laurinec, Tomá" Jarábek and MáriaLucká 73 "A Theoretical Approach towards Optimizing the | 04.15 pm – 05.35 pm | 53 "Features Extraction: A Significant Stage in Melanoma Classification" Savy Gulati and Rosepreet Kaur Bhogal 92 "Advancements in Medical Practice Using Mixed Reality Technology", Adam Nowak, Mikołaj Woźniak, Michał Pieprzowski and Andrzej Romanowski 78 "An Image Encryption Method Using Henon Map and Josephus Traversal" Shahna K U and Anuj Mohamed 84 "Revealing Abnormality based on Hybrid Clustering and Classification Approach" Asha Ashok and Prathibha Mol C.P 85 "Medical Recovery System Based on Inertial Sensors" Silviu Butnariu, Csaba Antonya and Petronela Ursu |

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| | Movement of Catom Clusters in Micro Robotics Based on the Foraging Behaviour of Honey Bees" Jithin K C and SyamSankar | | |
| 05:45 pm-08.00 pm | Cultural Events and Banquet | | |
| Day III: 19th December 2018 | | | |
| Paper Presentation Session III | | | |
| IBICA '18 | Venue: Ramanujan Hall, Aryabhata Block | | |
| 09.00 am - 11.00 am | <p>74 "Sensor Data Cleaning using Particle Swarm Optimization" Parag Narkhede, Shripad Deshpande and Rahee Walambe</p> <p>77 "Comparative analysis of chaotic variant of Firefly Algorithm, Flower Pollination Algorithm and Dragonfly Algorithm for high dimension Non-linear test functions" Amrit Pal Singh and Arvinder Kaur</p> <p>79" Learning based Image Super Resolution Using Sparse Online Greedy Support Vector Regression" - JesnaAnver and Abdulla P</p> <p>81 "A Deep Learning approach for Molecular Crystallinity Prediction" - Akash Sharma and BhartiKhungar</p> <p>85 "Optimized Path Selection in Oceanographic Environment " - Sobhana N V and Rahul Raj K.</p> <p>87 "Malayalam to English Translation: A Statistical Approach" - Blessy B John, Sobhana N V, Sobha L and Rajkumar T"</p> <p>88 "GABOOST:A Clustering Based Undersampling Algorithm For Highly Imbalanced Datasets Using Genetic Algorithm" - Ajilisa O A, Jagthyraj V P and Sabu M K</p> | | |
| 11.00 am-11.10 am | Coffee Break | | |
| Paper Presentation Session IV | | | |

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| WICT '18 | Venue: Ramanujan Hall, Aryabhata Block | |
| 11.10 am-12.30 pm | <p>86 "A comparative study of performance and security issues of public key cryptography and symmetric key cryptography in reversible data hiding" Anagha S, Neenu Sebastian and Rosebell Paul K</p> <p>88 " Haptic device with decoupled motion for rehabilitation and training of the upper limb" Csaba Antonya, Silviu Butnariu and Claudiu Pozna</p> <p>89 "LSTM approach to cancel noise from mouse input for patients with motor disabilities" Soham Harnale, Ashwin Vaidya, Aditya Bhide, Aniket Sanap and Mangesh Bedeker</p> <p>94 "Classification of Melanoma using different Segmentation Techniques ",Savy Gulati and Rosepreet Kaur Bhoga</p> | |
| 12.30 pm-01.30 pm | Lunch Break | |
| Virtual Presentation | | |
| | IBICA '18 | WICT '18 |
| | <p>13 "Effect of Derivative Action on Back-Propagation Algorithms" AhmetGürhanl, TanerÇevik and NazifeÇevik</p> <p>14 "Quantum Cryptography : A Survey" LavUpadhyay</p> <p>22 "Transfusion of Extended Vigenere Table and ASCII conversion for Encryption Contrivance " Sakshi Sharma, PrateekThakral, Karan Goyal, Tarun Kumar and Deepak Garg</p> <p>47 "Design and Implementation of an IoT-based Háptical Interface implemented by memetic algorithms to improve competitiveness in an Industry 4.0 Model for the Manufacturing sector"</p> | <p>7 "A Modified IEEE 802.11 Protocol for increasing Confidentiality in WLANs" Abhijath Ande, Nakul Singh and Bksp Kumar Raju Alluri</p> <p>17 "Temporal Event Detection Using Supervised Machine Learning Based Algorithm" Rakshita Bansal, Monika Rani, Harish Kumar and Sakshi Kaushal</p> <p>18 "PPARM: Privacy Preserving Association Rule Mining Technique for Vertical Partitioning Database" Virendra Dani, Shubham Kothari and Himanshu Panadiwal</p> <p>40 "PKI Model Optimisation in VANET with Clustering and Polling"</p> |

C. Alberto Ochoa-Zezatti and Roberto Contreras-Massé

48 "Implementation of a Fixed Point Fully Parallel Turbo Decoder for Communication Applications"

Parvathy M and Ganesan R

68 "Security Challenges in Semantic Web Of Things ",SanjuTiwari, Sarika Jain, ChhiteeshRai and Niketa Gandhi

78 "Analysis of Optimised LQR Controller Using Genetic Algorithm for Isolated Power System"

Anju G Pillai, Elizabeth Rita Samuel and Unnikrishnan A

Arul Thileeban S, Sathiya Narayan Chakravarthy, Bhuvana J and Balasubramanian V

63 "Development of an Innovative Mobile Phone- Based Newborn Care Training Application"

Sherri Bucher, Elizabeth Meyers, Bhavani Singh AgnikulaKshatriya, Prem Chand Avanigadda and Saptarshi Purkayastha

93 "Contouring the Behavioral Patterns of the Users of Social Network(ing) Sites and the Need for a Data Privacy Law in India: An Application of SEM-PLS Technique"

Sandeep Mittal and Priyanka Sharma

95 "A Fuzzy Based Hybrid Firefly Optimization Technique for Load Balancing In Cloud Datacenters"

M. Lawanya Shri, E Gangadevi, B. Balamurugan, Seifedine Kadry, Sanjay Misra and Modupe Odusami

96 "A Fuzzy Expert System for Diagnosing and Analyzing Human Diseases"

Nureni Azeez, Timothy Towolawi, Sanjay Misra, Charles van der Vyver, Adewole Adewumi, Robertas Damasevicius and Dr.Ravin Ahuja

97 "Diagnosing Oral Ulcers with Bayes Model",Nureni Azeez, Samuel Oyeniran, Sanjay Misra, Adewole Adewumi, Ravin Ahuja, Robertas Damasevicius and Rytis Maskeliunas

98 "Design and Implementation of a Fault Management System"

Abiola Salau, Banjo O. Esther, Sanjay Misra, Adewole Adewumi, Ravin Ahuja and Rytis Maskeliunas