

3rd International Conference on Smart System: Innovation in Computing (SSIC-2021)

(Jointly organized by Iowa State University USA, Deakin University Australia, University of Technology Sydney, Aksaray University Turkey and Polish Academy of Sciences, Poland)

Visit at: www.thessic.com

(Conference Schedule)

22nd January (Day-1)		(Join at : t.ly/8wKV)
Sr. No.	Activity	Time (IST)
1	Conference Inaugural	10:00 AM-10:35 AM
2	Keynote - 1 Prof. Krithi Ramamritham, IIT Mumbai	11:00 AM – 11:45 AM
3	Keynote - 2 Prof. Priyadarsi Nanda University of Technology Sydney, Australia	11:45 AM – 12:30 PM
4	Keynote - 3 Dr. Ramesh Babu Battula, MNIT Jaipur	12:15 PM – 01:00 PM
5	Keynote - 4 Prof. Marcin Paprzycki, Polish Academy of Sciences, Poland	02:00 PM – 02:45 PM
6	Keynote -5 Dr. Balamurugan, ACM Distinguished Speaker Founder & Chairman - Albert Einstein Engineering and Research Labs	03:00 PM – 03:45 PM
7	Parallel Technical Session-1	03:00 PM – 05:00 PM
	Computational Linguistics and Applications	
	Smart Systems and Applications-1	
	Smart Systems and Applications-2	
	Innovation in Computing-1	
	Intelligent Computing-1	
23rd January (Day-2)		(Join at : t.ly/Z7Ln)
8	Keynote – 6 Prof. Arun Somani, Iowa State University USA	10:00 AM – 10:45 AM
9	Keynote – 7 Prof. Rajveer S. Shekhawat, Director SCIT, MUJ	10:45 AM – 11:30 AM
10	Keynote – 8 Mr. Shubhajit Bhattacharya, Senior Program Manager, Accenture R&D	11:30 AM – 12:15 PM
11	Keynote – 9 Sh. Yashpal Soni State Head, e-Governance and Digital Transformation, Govt. of Rajasthan	12:15 PM – 01:00 PM

10	Parallel Technical Session-2	11:30 AM – 01:30 PM
	Intelligent Computing-2	
	Computational Intelligence Methods for AI and Machine Learning	
	Intelligent Computing-3	
	Smart Systems and Applications-3	
	Innovation in Computing-3	

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-I (Computational Linguistics and Applications) (Track-1)

Venue : Online
(Join at : t.ly/Dtgg)

January 22, 2021 (03:00 PM – 05:00 PM)

Session Chair: Dr. Shweta Sinha
Dr. Vikas Thada

Paper ID	Author(s)	Title
78	Prashant Verma, Vijay Kumar and Bharat Gupta	Requirements in PLS, SSML & SRGS Standard - Hindi as a case study
106	Deborah T. Joy, Vikas Thada and Utpal Srivastava	Sentiment Analysis on Global Warming Tweet using MNB and RNN
112	Parv Dahiya and Sahil Garg	Dimensionality Reduction Using Variational Autoencoders
113	Sahil Garg and Parv Dahiya	Computational Intelligence for Image Caption Generation
114	Tanishq Chamoli, Sonam Garg, Shriya Verma and Ankit Gupta	An empirical statistical analysis of COVID-19 curve through newspaper mining
119	Aayushi Bansal, Anshul Gupta, Kanishk Mangain and Ankit Gupta	An Exploratory Analysis on the Unfold of Fake News During Covid-19 Pandemic
125	Shweta Sinha	Speech Signal Processing for Identification of Under-resourced Languages
160	Joyanta Basu, Tapan Kumar Basu and Swanirbhar Majumder	Performance Evaluation of Speaker Identification in Language and Emotion Mismatch Conditions on Eastern and North Eastern Low Resource Languages of India

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-I (Smart Systems and Applications-1)
Day-1 (Track-2)

Venue : Online
(Join at : t.ly/QTuU)

January 22, 2021 (03:00 PM – 05:00 PM)

Session Chair: Dr Arka P. Mazumdar

Dr Punit Gupta

Paper ID	Author(s)	Title
24	Tuhin Utsab Paul and Aninda Ghosh	Smart support system for navigation of visually challenged person using IOT
30	Mahendra Parihar, Dasari Nagaraju and Kedar Bhagwat	Smart City Solution: Enhancing Capacity Utilization of Mass Rapid Transit System (MRTS) for Economic Viability with Special Reference to Jaipur Metro Rail Network
81	Nour Ahmed Ghoniem, Samiha Hesham, Sandra Fares, Mariam Hesham, Lobna Shaheen and Islam Tharwat Abdel Halim	Intelligent Surveillance Systems for Smart Cities: A Systematic Literature Review
98	Kiran Chaurasia and H. Ravishankar Kamath	Artificial Intelligence and Machine Learning based: Advances in Demand-Side Response of Renewable Energy integrated Smart Grid
101	Sai Ganesh, Vedasai Vamsidhar Reddy G, Sri Harsha S S M A, Abhishek Singh G, Athira Gopinath, Sai Shibu N B and Gayathri G	Design of IoT enabled Farmer Centric Multi Crop Irrigation Support System
110	V V Satyanarayana Tallapragada, I Kullayamma, G. V Pradeep Kumar and M Venkatanaresh	Significance of Internet of Things (IoT) in Health Care with trending smart Application
170	Prathibha Soma, Nirmal Raja K L, Shyamkumar M and Kirthiga M	COVID-19 SAFE GUARD-A SMART MOBILE APPLICATION TO ADDRESS CORONA PANDEMIC
188	Nirupma Pathak, Neeraj Kumar Misra, Bandan Kumar Bhoi and Santosh Kumar	Concept and Algorithm of Quantum Computing during Pandemic Situation of COVID-19
174	B. R. Chandavarkar, Akhilraj V. Gadagkar and Prajval M.	Mobility Dependent Distance-Based Multi-hop Routing Protocol for Underwater Networks
175	Preeti Sharma and Devershi Pallavi Bhatt	Importance of Deep Learning Models to Perform Segmentation on Medical Imaging Modalities
161	Kavyashree B, Aishwarya B S, Mahima Manohar Varkhedi V, Niharika S, Amulya R and Kavya A P.	Autonomous wheelchair for physically Challenged

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-I (Smart Systems and Applications-2)
Day-1(Track-3)

Venue : Online
(Join at : t.ly/FPvS)

January 22, 2021 (03:00 PM – 05:00 PM)

Session Chair: Dr. Amit Bhagat
Dr. Prdeep Tiwari

Paper ID	Author(s)	Title
21	Swati Goel and Ratneshwer Gupta	Architecture Level Fault Tolerance Modeling for SOA based Systems
22	Mahendra Parihar, Nagaraju Dasari and Kedar Bhagwat	Intelligent Infrastructure and Transportation: A case of Passenger Transportation system in Jaipur city of Rajasthan
45	Yugakiruthika A B and Malini A	Security Testing for Blockchain enabled IoT system
66	Yugakiruthika A B and Malini A	A comprehensive tool survey for Blockchain to IoT applications
77	Natasha Arya and Ashwni Kumar	Artificial Intelligence In Health Care: An Effectual Learning System
86	Shaibal Chakrabarty and Daniel Engels	The Social and Ethical Implications of Smart Environments in the Age of Big Data
88	Sadhana Selvakumar, Sivaraman Eswaran and Daniel D	Enhanced Energy Efficient Routing for Wireless Sensor Network Using Extended Power Efficient Gathering in Sensor Information Systems (E-PEGASIS) Protocol
104	Shakeel Ahamad and Ratneshwer Gupta	Criticality Analysis of Safety-Critical Systems using FMEA
178	Bevish Jinila, Prayla Shyry and Christy A	A Multi-Component Based Zero Trust Model to Mitigate the Threats in Internet of Medical Things
122	Regidi Suneetha and P V Sridevi	Wearable Monopole Antenna with 8-shaped EBG for Biomedical Imaging

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-I (Innovation in Computing-1)
Day-1(Track-4)

Venue : Online
(Join at : t.ly/64m6)

January 22, 2021 (03:00 PM – 05:00 PM)

Session Chair: Dr. Brajo Mishra

Dr. Sandeep Chaourasai

Paper ID	Author(s)	Title
13	Kirit Goyal, Lalit Kumar, Palash Goyal and Rishav Kumar	Using Machine Learning, Image Processing & Neural Networks to Sense Bullying in K-12 Schools
19	Utkarsh Sharma and Shishir Kumar	Feature based Comparative Study of Machine Learning Algorithms for Credibility Analysis of Online Social Media Content
60	Ram Naresh Saraswat and Sapna Gahlot	Neutrosophic Bipolar Fuzzy Sets, Similarity Measures and Application
143	Mosaddek Ali Mithu, Shampa Islam Momo, Md. Mehedi Hasan, Kazi Motiour Rahman and Abdus Sattar	Pumpkin Leaf Disease Detection: Convenience of CNN over Traditional Machine Learning in Terms of Image Classification
144	Syeda Khadizatul Maria, Shahrin Siddique Taki, Md. Jueal Mia, Al Amin Biswas, Anup Majumder and Firoz Hasan	Cauliflower Disease Recognition using Machine Learning and Transfer Learning
145	Raj Kamal, Aabha Jain and Manojkumar Deshpande	Architectural Design for Inspection of Machine Objects using Small DNNs as TinyML for Machine-Vision of defects and faults in the Manufacturing Processes
169	Punit Gupta and Sumit Bhardwaj	Detection of Alzheimer Disease Using Machine Learning
179	Santosh Kumar Vishwakarma, Nirmal Gupta, Prakash Sharma and Ashish Jain	A Big Data Approach for healthcare analysis during Covid-19
243	Gian Devi, S A M Rizvi, Sandeep Maan	To Predict the Layout of COVID-19 By Using ARIMA Model

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-I (Innovation in Computing-2) Day-1(Track-5)

Venue : Online
(Join at : t.ly/hLAr)

January 22, 2021 (03:00 PM – 05:00 PM)

Session Chair: Dr. Arjun Singh
Dr Ashish Kumar

Paper ID	Author(s)	Title
28	Payal Garg and Ajit Kr Jain	Digital Watermarking Techniques and their Analysis
29	Soumya Kulkarni, Darshana Bhagit and Masooda Modak	Identity Based Video Summarization
25	Yohan Kuriakose and Mahesh Jangid	Translation of American Sign Language to text: Using YOLOv3 with Background Subtraction and Edge Detection
26	Mahendra Parihar, Kedar Bhagwat and Nagaraju Dasari	Economic Analysis of Energy Efficient Transportation in India with Special Reference to the Passenger Movement
46	Smit B Patel, Parth H Patel, Viral D Jain and Jai Prakash Verma	Improved VGG16 CNN architecture for predicting tuberculosis using the frontal chest x-ray images
50	Ramgopal Dhaka, Bhoopendra Pachauri and Anamika Jain	Two-Dimensional Software Reliability Model with Delay in Debugging by Considering the Uncertainty in Operating Environment and Predictive Analysis
52	Hari Kishan Kondaveeti, Rakesh Kancharla and Raja Sravan Kumar Kovvali	Automatic Target Recognition using ISAR Images: A Survey
54	Rahisha Pokharel, Mandeep Kaur, Nitin Rakesh and Parma Nand	Facial Expression Recognition System
55	Rashmee Shrestha, Mandeep Kaur, Nitin Rakesh and Parma Nand	Object Recognition In A Cluttered Scene
63	Pinky Agarwal, Dr. Anju Yadav and Dr. Pratishta Mathur	Breast Cancer Prediction on BreakHis dataset using Deep CNN and Transfer Learning Mode

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-I (Intelligent Computing-1) Day-1 (Track-6)

Venue : Online
(Join at : t.ly/Y51o)

January 22, 2021 (03:00 PM – 05:00 PM)
Session Chair: Dr. Devarishi Pallavi Bhat
Dr. Arvind Dhaka

Paper ID	Author(s)	Title
69	Lovedeep Singh	Hybrid Ensemble for Fake News Detection: An attempt
70	Lalit B. Damahe, Saurabh Diwe, Shailesh Kamble, Sandip Kakde and Praful Barekar	Detection of Abnormal Activity at College Entrance Through Video Surveillance
73	Ms. Nehal Sharma, Mr. Sumit Bhardwaj, Punit Gupta	Novel Algorithm for detection and analysis of irremediable diseases - Progeria
79	Md. Jueal Mia, Mehedee Hassan and Al Amin Biswas	Effectiveness Analysis of Different POS Tagging Techniques for Bangla Language
105	Abdur Nur Tusher, Md. Helal Sheikh, Md. Tariqul Islam and Md. Shamim Reza	Detection of Grape, Potato and Strawberry leaf diseases using CNN and Image Processing
107	Amit Pandey, Abdella K. Mohammed, Rajesh Kumar and Deepak Sinwar	Novel and Prevalent Techniques for Resolving Control Hazard
85	Bui Thanh Khoa	The Positive Electronic Word Of Mouth: A Research Based On The Relational Mediator Meta-Analytic Framework In Electronic Marketplace
90	Priyanka Shah and Hardik Pandit	A Review: Web Content Mining Techniques
91	Parveen Solanki, Rishipal Singh and Sushil Kumar	GPS-free localization in Vehicular Networks using Directional Antennas

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-II (Intelligent Computing-2) Day-2 (Track-7)

Venue : Online
(Join at : t.ly/ccsk)

January 23, 2021 (11:30 AM – 01:30 PM)
Session Chair: Dr Vijay Pal Singh Dhaka
Dr Neha Choudhury

Paper ID	Author(s)	Title
94	Amit Kumar Bairwa and Dr. Sandeep Joshi	An improved scheme in AODV routing protocol for enhancement of QoS in MANET
95	Iqbal Hasan and Sam Rizvi	Knowledge Management Framework for Sustainability and Resilience in Next-Gen e-Governance
97	Anjali Dadhich and Blessy Thankachan	Sentiment Analysis of Amazon Product Reviews using Hybrid rule-based approach
102	Hiteshkumar Solanki and Paresh Virparia	Conceptual Machine Learning Framework for Performance based Resource Allocation to the Institutions: A Hybrid Approach
103	Kanika Tehlan, Shampa Chakraverty, Pinaki Chakraborty, Aditya Aggarwal, Manan Madan and Gaurav Gupta	Enriching WordNet with subject specific Out of Vocabulary terms using existing ontology
111	Kabir Nagpal and Mahesh Jangid	Sound Classification using Residual Convolutional Network
150	Amit Pandey, Tucha Kedir, Rajesh Kumar and Deepak Sinwar	Analyzing Effects of Temperature, Humidity and Urban Population in the Initial Outbreak of COVID19 Pandemic in India
163	Nadia Afrin Ritu, Ahsin Abid, Al Amin Biswas and Md. Imdadul Islam	Watermarking of Digital Image Based on Complex Number Theory
164	Md Abu Isahak Mahy, Salowa Binte Sohel, Joyanta Basak, Md. Jueal Mia and Sourov Mazumder	A Computer Vision Approach for Automated Cucumber Disease Recognition

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-II (Computational Intelligence Methods for AI and Machine Learning) Venue : Online
Day -2 (Track-8) (Join at : t.ly/uoid)

January 23, 2021 (11:30 AM – 01:30 PM)

Session Chair: Dr Kaushika Pal

Dr Arjun Singh

Paper ID	Author(s)	Title
80	Adit Doshi, Helly Patel, Rikin Patel, Brijesh Satasiya, Muskan Kapadia and Nirali Nanavati	Audio peripheral volume automation based on the surrounding environment and individual human listening traits
83	Dipjaya Patel	A Survey: Accretion in linguistic classification of Indian Languages
199	Vishvajit Bakarola and Jitendra Nasriwala	Vishvajit Bakarola, Jitendra Nasriwala
200	Amit Pandey, Rabira Galeta and Tucha Kadir	Amit Pandey, Rabira Galeta and Tucha Kadir
204	Gian Devi and Prof. S A M Rizvi	Artificial Intelligence For Personalized Medicine With EHR And Genomic Information
189	Prakash C. Sharma, Santosh Kumar Vishwakarma, Nirmal Gupta and Ashish Jain	An Approach for Graph Coloring Problem using Grouping of Vertices
182	Chitra Sharma, Pradeep Kumar Tiwari and Garima Agarwal	A Study on Energy Efficient Cloud Computing
183	Deepak Mane, Namrata Londhe, Namita Patil, Omkar Patil and Prashant Vidhate	A Survey on Diabetic Retinopathy Detection using Deep Learning
243	Gian Devi and Prof. S A M Rizvi, Sandeep Maan	To Predict the Layout of COVID-19 By Using ARIMA Model



3rd International Conference on Smart Systems: Innovations in Computing

**Parallel Technical Session-II (Intelligent Computing-3)
Day -2 (Track-9)**

**Venue : Online
(Join at : t.ly/KXYd)**

January 23, 2021 (11:30 AM – 01:30 PM)

Session Chair: Dr Pankaj Vyas

Dr Geeta Rani

Paper ID	Author(s)	Title
116	V V Satyanarayana Tallapragada, N Aivelu Manga, M. V. Nagabhushanam and M Venkatanaresh	Greek Handwritten Character Recognition using CNN Inception V3 Architecture
120	Sagar Shrivastava, Rishika Singh, Charu Jain and Shivangi Kaushal	A Research on Fake News Detection using Machine Learning Algorithm
121	Md. Zubair, Sibbir Ahmed, Ashim Dey, Annesha Das and Md.Mahadi Hasan	An Intelligent Model to Suggest Top Productive Seasonal Crops Based on User Location in the Context of Bangladesh
123	Hema Tekwani and Dr. Krishna Raj	Brightness Intensity based Transient Motion Prediction
126	Meenakshi Nawal, Kusum Lata Jain Jain and Shivani Gupta	A Unique ECG Authentication System for Health Monitoring
127	Nirmal Kumar Gupta, Ashish Jain, Prakash Chandra Sharma and Santosh Kumar Vishwakarma	State of the Art and Challenges in Blockchain Applications
128	Priyankoo Sarmah and Leena Dihingia	Assamese Dialect Identification from Vowel Acoustics
130	Ashish Jain, Nirmal Kumar Gupta, Santosh Kumar Vishwakarma and Prakash Chandra Sharma	Swarm intelligence techniques for automated cryptanalysis of classical transposition cipher: a review
148	Anup Majumder, Md. Mahbubur Rahman, Al Amin Biswas, Md. Sabab Zulfiker and Sarnali Basak	Stock Market Prediction: A Time Series Analysis

3rd International Conference on Smart Systems: Innovations in Computing

Parallel Technical Session-II (Smart Systems and Applications-3)
Day-2 (Track-10)

Venue : Online
(Join at : t.ly/54CZ)

January 23, 2021 (11:30 AM – 01:30 PM)

Session Chair: Dr Sandeep Joshi
Dr. Manoj Bohra

Paper ID	Author(s)	Title
131	Ashish Jain, Prakash Chandra Sharma, Nirmal Kumar Gupta and Santosh Kumar Vishwakarma	A review on metaheuristic techniques in automated cryptanalysis of classical substitution cipher
132	Chitra Sharma and Pradeep Kumar Tiwari	An Empirical Study of Different Techniques to improvement of Quality of Service in Cloud Computing
133	Sunil Nimbhore, Suhas Mache and Siddharth More	Feature Extraction of PTTS-System and its Evaluation By Mean Opinion Score (MOS)
134	Azizi Ab Aziz and Wadhah Abdul Hussain	Computational Analysis of a Human-Robot Working Alliance Trust in Robot-based Therapy
135	Mohammed Tawfik Mused, Ziad Algshai, Dr. Sunil Nimbhore, Saleh Alsubari and Ezzaldeen Mahyoub	Classification of Epileptic seizure using Machine learning and Deep Learning based on EEG Signal
139	Neha Singh and Deepali Virmani	Novel Intrusion prevention and Detection Model in Wireless Sensor Network
140	Ahmed Abdullah A. Shareef, Pravin Yannawar and Ntar Shaddad H. Abdul-Qawy	YOLOv4-based Monitoring Model for COVID-19 Social Distancing Control
141	Sumaya Akter Usrika and Abdus Sattar	Automatic Object's Shadow Detection and Removal using Image Processing
142	Shreyas Thakur, Yash Kasliwal, Taikhum Kothambawala and Rahul Katarya	A Study on Pulmonary Image Screening for the detection of COVID-19 using Convolutional Neural Networks
155	Somya Goyal	FOFS: Firefly Optimization for Feature Selection to Predict Fault-prone Software Modules

3rd International Conference on Smart Systems: Innovations in Computing

**Parallel Technical Session-II (Innovation in Computing--3)
Day-2 (Track-11)**

Venue : Online
(Join at : t.ly/vNcu)

January 23, 2021 (11:30 AM – 01:30 PM)

Session Chair: Dr. Sumit Srivastava

Dr. Ashish Kumar

Paper ID	Author(s)	Title
157	Sparsh Kotriwal, Jaya Krishna R, Siddhartha Saxena and Devi Prasad Sharma.	Deceptive Reviews detection in E-Commerce Websites Using Machine Learning
158	Bui Thanh Khoa, Nguyen Thi Trang Oanh, Vo Thi Thao Uyen and Dang Cuu Hanh Dung	Customer Loyalty In The Covid-19 Pandemic: The Application Of Machine Learning In Survey Data
159	Bui Thanh Khoa, Ho Nhat Anh, Nguyen Minh Ly and Nguyen Xuan Truong	A Study On Buying Attitude On Facebook In The Digital Transformation Era: A Machine Learning Application
184	Deepak Mane, Mehul Patel, Madhavi Sawant, Karina Maiyani and Divya Patil	A Survey on Alzheimer's Disease Detection and Classification
185	Pampalle Mabuhussain, S Srikanth, V Chandra Jagan Mohan and T Ravi Babu	IOT based Automatic Power Factor Correction (APFC) Unit for Industries to Curtail the Retribution of Power Utility Companies
186	Brajesh Kumar Shrivash, Dr. Dinesh Kumar Verma and Dr. Prateek Pandey	An Analysis On Machine Learning Approaches For Sentiment Analysis
165	Asif Ahmmed, Tipu Sultan, Sk Hasibul Islam Shad, Md. Jueal Mia and Sourov Mazumder	An Automated Visa Prediction Technique for Higher Studies Using Machine Learning in the Context of Bangladesh
167	Anil Kumar Sahu, Neeraj Kumar Misra, Kandula Mounika and Prakash Chandra Sharma	Design and Performance analysis of MIMO Patch Antenna Using CST Microwave Studio
172	Divya Jangid And Saurabh Mukherjee	A novel mathematical model to represent the hypothalamic control on water balance