

**5th International Conference on Information Systems and Management Science
(ISMS 2022)**

November 24-27, 2022

Jointly Organized by



**L-Università
ta' Malta**

**The Faculty of ICT, University of Malta, Malta
&
Department of Computer Science and Engineering
National Institute of Technology Raipur, India**



Conference Agenda

Day -1: Thursday, November 24th, 2022

ISMS2022 Conference Zoom Meeting Link	https://universityofmalta.zoom.us/j/99902194688
10:00-11:00 CET 14:30-15:30 IST	Inauguration: Chief Guest: Prof. Rajkumar Buyya , Redmond Barry Distinguished Professor and Director of CLOUDS Laboratory at the University of Melbourne, Australia Honorary Chair: Prof. Ing. Carl James Debono , Dean, Faculty of Information and Communication Technology, University of Malta, Malta Chair: Prof Ernest Cachia , Head of the Department of Computer Information Systems, University of Malta, Malta Prof. Hamming Liu , University of Southampton, UK, Prof. Dilip Singh Sisodia , National Institute of Technology Raipur, India Dr Lalit Garg , University of Malta, Malta Prof Shiva Prasad HC , Manipal University Jaipur, India
11:00 -11:10 CET 15:30-15:40 IST	Vote of Thanks for Inaugural Guest Welcome to Keynote Speaker
11:10-11:55 CET 15:40-16:25 IST	Keynote Speaker #1: Prof. Dr. Sardar M. N. Islam (Naz) , Victoria University, Australia
11:55-12:05 CET 16:25-16:35 IST	Vote of Thanks for Keynote Speaker #1 Welcome to Keynote Speaker #2
12:05-12:50 CET 16:35-17:20 IST	Keynote Speaker #2: Prof. Victor Chang , Business Analytics, Aston University, UK
12:50-13:00 CET 17:20-17:30 IST	Vote of Thanks for Keynote Speaker #2 Break
13:00-14:30 CET 17:30-19:00 IST	Paper Presentation Session #1
14:30-16:00 CET 19:00-20:30 IST	Paper Presentation Session #2

CET-Central European Time, IST-Indian Standard Time

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Conference Agenda

Day -2: Friday, November 25th, 2022

ISMS2022 Conference Zoom Meeting Link	https://universityofmalta.zoom.us/j/99902194688
11:00-12:30 CET 15:30-17:00 IST	Track: ML Emerging Trends & Applications Session#3: Machine Learning: Emerging Trends
12:30-14:00 CET 17:00-18:30 IST	Track: Network, IoT and Blockchain Session#4 Cloud Computing
14:00-15:30 CET 18:30-20:00 IST	Track: Information Systems Session#5: Data Science in Information Extraction
15:30-17:00 CET 20:00-21:30 IST	Track: Computational Intelligence Session#6: Artificial Intelligence in Disease Diagnosis

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Conference Agenda

Day -3: Saturday, November 26th, 2022

ISMS2022 Conference Zoom Meeting Link	https://universityofmalta.zoom.us/j/99902194688
11:00-12:30 CET 15:30-17:00 IST	Track: ML Emerging Trends & Applications Session#7: Machine Learning and Deep Learning Applications
12:30-14:00 CET 17:00-18:30 IST	Track: Information Systems Session#8: System analysis and Design
15:00-15:30 CET 19:30-20:00 IST	Valedictory

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Day-1: Thursday, November 24th, 2022, at 13:00-14:30 CET 17:30-19:00 IST

Track: Computational Intelligence

Session#1 Soft Computing and its Applications

Chair: Prof John Abela, The University of Malta, Malta

Chair: Prof Rajesh Kaluri, Vellore Institute of Technology, Tamil Nadu, India

Chair: Dr Deepak Singh, National Institute of Technology Raipur, India

Paper IDs: 87, 111, 83, 104, 125, 12

Day-1: Thursday, November 24th, 2022, at 14:30-16:00 CET 19:00-20:30 IST

Track: Information System

Session#2 Design of Digital Systems

Chair: Dr Joseph G Vella, The University of Malta, Malta

Chair: Prof Nishtha Keswani, Central University of Rajasthan, India

Chair: Prof. K. V. Arya, ABV-IIIITM, Gwalior, India

Paper ID: 19, 116, 60, 17, 41, 126

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Day-2: Friday, November 25th, 2022 at 11:00-12:30 CET 15:30-17:00 IST

Track: ML Emerging Trends & Applications

Session#3 Machine Learning: Emerging Trends

Chair: Prof Haiming Liu, The University of Southampton, UK

Chair: Dr Megha Bhushan, DIT University, Dehradun, Uttarakhand, India

Chair: Prof Debnath Bhattacharyya, K L Deemed To Be University, Vaddeswaram, India

Paper IDs: 109, 14, 26, 6, 124

Day-2: Friday, November 25th, 2022 at 12:30-14:00 CET 17:00-18:30 IST

Track: Network, IoT and Blockchain

Session#4 Cloud Computing

Chair: Dr Peter Albert Xuereb, The University of Malta, Malta

Chair: Dr Vijay Prakash, UPES University, Dehradun, Uttarakhand, India

Chair: Dr Praveen Kumar Reddy, Vellore Institute of Technology, Tamil Nadu, India

Paper ID: 117, 67, 65, 88, 63, 5, 74

Day-2: Friday, November 25th, 2022 at 14:00-15:30 CET 18:30-20:00 IST

Track: Information Systems

Session#5 Data Science in Information Extraction

Chair: Prof John Abela, The University of Malta, Malta

Chair: Dr Srinivas Koppu, Vellore Institute of Technology (VIT), Tamil Nadu, India

Chair: Prof Sanjay Misra, Østfold University College, Halden, Norway

Paper IDs: 57, 31, 113, 80, 107, 16

Day-2: Friday, November 25th, 2022 at 15:30-17:00 CET 20:00-21:30 IST

Track: Computational Intelligence

Session#6 Artificial Intelligence in Disease Diagnosis

Chair: Prof Ravinder Kumar, Thapar Institute of Engineering and Technology, India

Chair: Prof Rashmi Bharadwaj, Guru Gobind Singh Indraprastha University, India

Chair: Dr. Dharmendra Singh Rajput, Vellore Institute of Technology, India

Paper ID: 40, 105, 37, 119, 75, 85, 82

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Day-3: Saturday, November 26th, 2022 at 11:00-12:30 CET

15:30-17:00 IST

Track: ML Emerging Trends & Applications

Session#7: Machine Learning and Deep Learning Applications

Chair: Prof Debnath Bhattacharyya, K L Deemed To Be University, Vaddeswaram, India

Chair: Prof Seema Bawa, Thapar Institute of Engineering and Technology, Patiala, India

Chair: Mr Anthony Spiteri Staines, The University of Malta, Malta

Paper IDs: 064, 49, 051, 052, 015, 115

Day-3: Saturday, November 26th, 2022 at 12:30-14:00 CET

17:00-18:30 IST

Track: Information Systems

Session#8: System analysis and Design

Chair: Prof Ravinder Kumar, Thapar Institute of Engineering and Technology, Patiala, India

Chair: Prof K B Ramesh, R V College of Engineering, Bengaluru, India

Chair: Mr Anthony Spiteri Staines, The University of Malta, Malta

Paper ID: 45, 101, 108, 127, 78, 98

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Day-1: Thursday, November 24th, 2022, at 13:00-14:30 CET 17:30-19:00 IST

Track: Computational Intelligence

Session#1: Soft Computing and its Applications

Paper Ids	Time: 13:40-15:10 IST / 18:10-19:55 CET
87	Hybrid Ant Colony Optimization Routing Algorithm for AODV Protocol Improvement
111	A Multi Objective Hybrid Collision-free Near- Optimal Dynamic Path Planner for Autonomous Robots in Dynamic Environments
83	CNN With Transfer Learning for Skin Lesion Identification Using Tasmanian Devil Optimization Algorithm
104	Design of Fuzzy Based Controller For Temperature Process In Fire Tube Boiler
125	Some Results on Fixed Point Theorems in Fuzzy Metric Spaces
12	Neural Network Based Algorithm to Estimate the Axial Capacity of Corroded RC Columns

Day-1: Thursday, November 24th, 2022, at 14:30-16:00 CET 19:00-20:30 IST

Track: Information System

Session#2: Design of Digital System

Paper Ids	Time: 15:10-16:55 CET /19:55-21:25 IST
19	Adopting Metaverse as a Pedagogy in Problem-Based Learning
116	A Tool to Aid Households in Investments Decision
60	Agile Helmet-A Smart Secure System for Motorbike
17	Impact of Organization Justice on Organizational Citizenship Behavior and Employee Retention
41	Application of IoT for Proximity analysis and alert generation for maintaining social distancing
126	Effective Teaching Aids for People with Dyslexia

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Day-2: Friday, November 25th, 2022, at 11:00-12:30 CET 15:30-17:00 IST

Track: ML Emerging Trends & Applications

Session#3: Machine Learning: Emerging Trends

Paper Ids	Time: 11:00-12:30 CET / 15:30-17:00 IST
109	Multivariate and Univariate Anomaly Detection in Machine Learning: A Bibliometric Analysis
14	ML-Based Computational Model to Estimate the Compressive Strength of Sustainable Concrete Integrating Silica fume and Steel Fibers
26	Sentiment Analysis for Depression Detection and Suicide Prevention using Machine Learning
6	An Improved Recommender System for Dealing with Data Sparsity Using Autoencoders And Neural Collaborative Filtering
124	A Novel PCA-Logistic Regression for Intrusion Detection System

Day-2: Friday, November 25th, 2022 at 12:30-14:00 CET 17:00-18:30 IST

Track: Network, IoT and Blockchain

Session#4: Application areas of Information and Communication Technology

Paper Ids	Time: 12:30-14:00 CET / 17:00-18:30 IST
117	Cloud Computing In Upstream Oil And Gas Industry; Aspirations, Trends And Limitations
67	A Novel Approach for Service Selection and Ranking in Federated Cloud
65	Efficient Approach for Virtual Machine and Resource Allocation in Cloud Computing
88	Estimation of Implied Volatility for Ethereum Options using Numerical Approximation Methods
63	Decentralised Digital Identity: A new form of secured identity using Blockchain technology
5	ADAPT- Automated Defence TrAining PlaTform in a Cyber Range
74	A Review on IoT Based Wireless Sensor Network and Security

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Day-2: Friday, November 25th, 2022, at 14:00-15:30 CET 18:30-20:00 IST

Track: Information Systems

Session#5: Data Science in Information Extraction

Paper Ids	Time: 14:00-15:30 CET / 18:30-20:00 IST
57	Smart Energy Saver
31	Electric sports bicycle motor testing in a laboratory jig using cloud computing and internet of things
113	How Does Background Music At Stores Impact Impulse Buying Behavior Of Young Customers In Vietnam?
80	Smart Home Using Internet of Things
107	Intelligent Door Locking System
16	Prognosis of Viral Transmission in Naturally Ventilated Office Rooms Using ML

Day-2: Friday, November 25th, 2022, at 15:30-17:00 CET 20:00-21:30 IST

Track: Computational Intelligence

Session#6: Artificial Intelligence in Disease Diagnosis

Paper Ids	Time: 15:30-17:00 CET / 20:00-21:30 IST
40	Improvisation of Predictive Modeling using different classifiers for predicting Thyroid Disease in patients
105	Accelerating the prediction of Anti-Cancer Peptides using Integrated Feature Descriptors and XGBoost
37	Machine Learning Model to Predict Mortality due to cardiovascular diseases
119	Plant Disease Detection Using Deep Learning Techniques
75	Comparative study for machine learning techniques used for diseases diagnosis prediction and analysis
85	A comprehensive study of crop disease detection using machine learning classification techniques
82	MLTPDFS: Design of Machine Learning Model for Temporal Analysis of Progressive Diseases via Facial Scans

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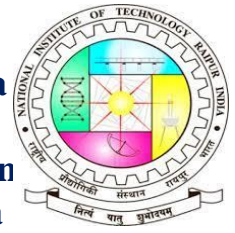
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Day-3: Saturday, November 26th, 2022, at 11:00-12:30 CET / 15:30-17:00 IST

Track: AI Emerging Trends & Applications

Session#7: Machine Learning and Deep Learning Applications

Paper Ids	Time: 11:00-12:30 CET / 15:30-17:00 IST
064	Object Detection with YOLO Version 3 for Big Data
49	Transfer Learning of Mammogram Images using Morphological Bilateral Subtraction and Enhancement Filter
051	Deep Learning based Bengali Image Caption Generation
052	Analyzing Deep Neural Network Algorithms for recognition of emotions using textual data
015	Translation of Indian sign language digits using 2D-CNN with swish activation function
115	A Deep Convolutional Neural Network for Remote Life Activities Detection using FMCW Radar under Realistic Environments

Day-3: Saturday, November 26th, 2022, at 12:30-14:00 CET / 17:00-18:30 IST

Track: Information Systems

Session#8: System analysis and Design

Paper Ids	Time: 12:30-14:00 CET / 17:00-18:30 IST
45	Analysis And Optimization of Fault - Tolerant Behaviour Of Motors In Electric Vehicular Systems
101	Actor Model Frameworks: An Empirical Performance Analysis
108	Automated generation of multi-tenant database systems from system design diagrams
127	The Numerical Estimation of Spectral Energy Density in Electroencephalogram (EEG)
78	A Software Quality Characteristics Optimization Model to Reduce Evaluation Overhead
98	Semi supervised approach with entity embeddings for heart disease prediction

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