



IBICA 2020 – WICT 2020

Technical Program Schedule (2.0)

ONLINE on CISCO Webex platform

December 12, 2020 - Saturday
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09:00 - 10:00 GMT:

Plenary 1: Prof. Dr. Sushmita Mitra, Indian Statistical Institute, Kolkata, India

10:00 - 11:00 GMT:

Plenary 2: Prof. Dr. Bassem Jarboui, Sfax University, Tunisia

December 13, 2020 - Sunday
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09:00 - 10:00 GMT:

Plenary 3: Prof. Dr. Tzung-Pei Hong, National University of Kaohsiung, Taiwan

December 14, 2020 - Monday
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09:00 - 10:00 GMT:

Plenary 4: Prof. Dr. André Rossi, Université Paris-Dauphine, France

15:00 - 16:00 GMT:

Plenary 5: Prof. Dr. Amine Nait-Ali, University Paris-Est Créteil, France

December 15, 2020 - Tuesday
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13:00 - 14:00 GMT:

Plenary 6: Dr. Rudy A. Oude Vrielink, University of Twente & TwiQel, Netherlands

14:00 - 15:00 GMT:

Plenary 7: Prof. Dr. Frederico Gadelha Guimarães, Federal University of Minas Gerais, Brazil

15:00 - 16:00 GMT:

Plenary 8: Prof. Dr. Fakhri Karray, University of Waterloo, Canada

December 16, 2020 - Wednesday
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09:00 - 10:00 GMT:

Plenary 9: Prof. Dr. Saman K. Halgamuge, University of Melbourne, Australia

10:00 - 11:00 GMT:

Plenary 10: Prof. Dr. Salvador García, University of Granada, Granada, Spain

11:00 - 12:00 GMT:

Plenary 11: Prof. Dr. Vincenzo Piuri, Università degli Studi di Milano, Italy

12:00 - 13:00 GMT:

Plenary 12: Prof. Dr. Dries F. Benoit, Ghent University, Belgium

14:00 - 15:00 GMT:

Plenary 13: Prof. Dr. Dijiang Huang, Arizona State University, USA

December 17, 2020 - Thursday

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09:00 - 10:00 GMT:

Plenary 14: Prof. Dr. Ketan Kotecha, Symbiosis Institute of Technology, India

10:00 - 11:00 GMT: IBICA - 01

3 A Novel Clustering based Undersampling Algorithm for Imbalanced Data sets using Artificial Bee Colony Algorithm:

Ajilisa O A, Jagathyraj V P and Sabu M K

8 Flower Pollination Algorithms in Optimization of Interval Type-2 Fuzzy for Telemedical Problem

Uduak Umoh, Abdultaofeek Abayomi, Samuel Udoh and Alimot Abdulazeez

11 A Hybrid Trust Probability based C-ACO model for large Software Defined Networks

Divya Lanka

11:00 - 12:00 GMT: IBICA - 02

20 Cooperative Slotted ALOHA with ZigZag Decoding and a Pricing Mechanism
Ahmed Boujnoui, Abdellah Zaaloul and Abdelkrim Haqiq

21 Grey Wolf Optimization Model for the best Mean-Variance based Stock Portfolio selection

Virgilijus Sakalauskas, Dalia Kriksciuniene and Audrius Imbrazas

22 Modelling and Performance Evaluation of IoT Network During the COVID-19 Pandemic

Abdessamad Bellouch, Ahmed Boujnoui, Abdellah Zaaloul and Abdelkrim Haqiq

12:00 - 13:00 GMT: WICT - 01

5 Literature Survey: Application of Machine Learning Techniques on Static Sign Language Recognition

Yael Robert, Yashshree Nigudkar, Anagha Kulkarni, Namita Mutha and Pranjali Barve

10 A System to Detect the Faces in Unconstrained Environment
Bhavya D N and Chethan H K

26 Comparative Analysis of Cellular Automata based Multilingual Encryption using
Syndicate Rules for Data Security
Ayan Banerjee and Anirban Kundu

27 A Comprehensive Review on Cyber Physical System and its Applications in
Robotic Process Automation
Durgesh M Sharma, Shishir Kumar Shandilya and Ashish K. Sharma

33 An Approach to Store Data in Cloud based Storage using Mapping Technique
Saswati Sarkar and Anirban Kundu

13:00 - 14:00 GMT: WICT - 02

36 Optimization of Road Traffic Congestion in Urban Traffic Network using Dinic's
Algorithm
Somasree Bhadra, Anirban Kundu and Sunirmal Khatua

38 Optimising criteria for manual smear review following automated blood count
analysis: A machine learning approach
Marta Avalos, Helene Touchais and Marcela Henriquez

45 Insurance Policy Claim Verification Model of Unnatural Death Cases – An
Artificial Intelligence based approach
Tanaya Das, Subhasish Mohapatra and Abhishek Roy

48 A Hybrid Machine Learning Model for Predicting Customer Churn in the
Telecommunication Industry
Modupe Odusami, Sanjay Misra and Ravin Ahuja

December 18, 2020 - Friday

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09:00 - 12:00 GMT:

**Tutorial 1: Prof. Anand J Kulkarni, Symbiosis Center for Research and Innovation,
Symbiosis International, India**

15:00 - 16:00 GMT:

Plenary 15: Prof. Dr. Sheela Ramanna, University of Winnipeg, Canada

OFFLINE Presentations of IBICA 2020

- 1 A Novel Optimization Algorithm (Lion-AYAD) to find Optimal DNA Protein Synthesis
Samaher Al-Janabi and Ayad Alkaim
URL:
- 2 An Evolutionary Approach for Solving the Minimum Volume Ellipsoid Estimator Problem
Rewayda Abo Alsabeh, Hajam Daham and Abdellah Salhi
URL: <https://youtu.be/Abq7KVNWvBk>
- 13 Novel Routing-Scheduling Problem for Home Health Care Network
Alireza Ferdowsi, Roghaye Bahrami Taghanaki and Ajith Abraham
URL:
- 14 A Data-Driven Dynamic Discretization Framework to solve Combinatorial Problems using Continuous Metaheuristics
Felipe Cisternas-Caneo, Broderick Crawford, Ricardo Soto, Hanns de la Fuente-Mella, Diego Tapia, José Lemus-Romani, Mauricio Castillo, Marcelo Bacerra-Rozas, Fernando Paredes and Sanjay Misra
URL: <https://www.youtube.com/watch?v=VYMd8MI41HY>
- 18 Minimizing Tardiness in Stochastic Flexible Job Shop Problem using a simulation based optimization approach
Mahsa Nekouei Shahraki, Ajith Abraham and Mohammadmehdi Lotfi
URL: <https://youtu.be/wsmQKJI-F3I>
- 19 Classification of Metabolic pathways using Machine Learning techniques
Jyotshna Dongardive and Suruchi Jamkhedkar
URL: <https://www.youtube.com/watch?v=tGmJKP0UITM>
- 23 Designing a multi-objective supply chain model for the oil industry in conditions of uncertainty and solving it by meta-heuristic algorithms
Omid Abdolazimi and Ajith Abraham
URL: https://youtu.be/e2qvD6YOs_4

OFFLINE Presentations of WICT 2020

- 3 Effective Machine Learning Approaches for Credit Card Fraud Detection
Md. Noor Alam, Prajoy Podder, Subrato Bharati and M. Rubaiyat Hossain Mondal
URL: <https://youtu.be/aXuEoeBlbsw>
- 4 Sensitive Integrated among Multi Levels of Optimization Model to Recognition Human Activities of Smartphone and Smartwatch

Samaher Al-Janabi
URL:

- 8 EECT: Energy Efficient Clustering Technique using Node Probability in Ad-hoc Network
Virendra Dani, Deepesh Bhati and Nisha Bhati
URL: <https://youtu.be/iZVW-6xE3Xc>
- 11 Machine learning for intrusion detection Design and Implementation of an IDS based on artificial neural network
Younes Wadai, Yousef El Mourabit and Mohammed Baslam
URL: <https://youtu.be/Nr46oRopi84>
- 12 Avoiding Wormhole Attack in MANET Using an Extending Network Knowledge
Hicham Zougagh, Nouredine Idboufker, El Mourabit Yousef, Youssef Saadi and Elouaham Samir
URL: <https://youtu.be/9h4q0ojVCwI>
- 13 Analysis of socio-cognitive skills among 90's and 2K's generations using Machine learning techniques
Anitha Natarajan, Devi Priya Rangasamy and Baskar Chelladurai
URL: https://youtu.be/jtt_m331j08
- 15 Particulate matter Forecasting using Neural Networks
Shambhavi Trivedi, Maninder Kaur and Tarushi Singh
URL: <https://youtu.be/AVan4mul2AI>
- 18 Security Challenges of Blockchain
Yousuf Khan, S B Goyal and Pradeep Bedi
URL:
https://www.youtube.com/watch?v=Z0lws_oVp7A&ab_channel=BlockchainSecurityTalks
- 19 Blockchain Transforming Cyber-Attacks: Healthcare Industry
Nwosu Anthony Ugochukwu, S B Goyal and Pradeep Bedi
URL: <https://www.youtube.com/watch?v=n8YnPLm-UbA>
- 21 Effectiveness of Ensemble Machine Learning Algorithms in Weather Forecasting of Bangladesh
Atik Mahabub, Al-Zadid Sultan Bin Habib, M. Rubaiyat Hossain Mondal, Subrato Bharati and Prajoy Podder
URL: <https://youtu.be/z0ZzVsTdnOM>
- 24 Significance of the Internet of Things to the Covid-19 Pandemic in the Philippines
Maria Rosario Garcia and Alvin Culaba

URL: <https://youtu.be/YSOo8da5wkc>

- 25 Health Care System Based on the Theory of Dynamic Systems
Nazanin Fozooni, Hamed Daneshvari, Sohaib Dastgoshade and Ajith Abraham
URL: <https://www.youtube.com/watch?v=XMBof1SQVf4&feature=youtu.be>
- 30 Analysis of Papers Based on Sentiment Analysis Applications on E-Commerce Data
Beena Kapadia and Dr Amita Jain
URL: https://youtu.be/m_yeN6GVAz8
- 32 IoT based Time Triggered SPE Smart Switch for AC Appliances Control
Omar Bin Samin, Maryam Omar, Musadaq Mansoor, Noman Naseeb, Samad Ali Shah and Aqil Amjad Khan
URL:
https://www.youtube.com/watch?v=BXNJGJc59RI&feature=youtu.be&ab_channel=PaperPresentation
- 35 Context-Based Cultural Visits
Mariana Assis, Maria Teresa Andrade and Paula Viana
URL: <https://youtu.be/JxZ8B5cOBfc>
- 39 Online Courses Performance Prediction using Machine Learning Techniques
Jyotshna Dongardive, Mousmi Pawar and Pooja Manghirmalani Mishra
URL: <https://www.youtube.com/watch?v=0THpAMg0wfg>
- 40 The Ground Based Scatterometer For Agriculture Applications
Geeta Desai and Abhay Gaikwad
URL: <https://youtu.be/iR3tF1qmfqk>
- 41 Automatic Terminology Extraction using A Dependency-Graph in NLP
Yusuke Kimura, Kazuma Kusu, Kenji Hatano and Tokiya Baba
URL: <https://youtu.be/qtbZG0IsxS4>
- 43 Assessment of Plant Health in the Green Belt around Coal Handling Area for Sustained and Effective Control of Fugitive Emissions
Prashant Kokil, Niketa Gandhi and Sanjay Deshmukh
URL:
- 44 ICT in Indian Agriculture: An overview of the major services, their penetration and infrastructural development
Nikhil Kumar Rajput, Niketa Gandhi and Bhavya Ahuja Grover
URL:
- 46 A Study on Argument-Based Analysis of Legal Model
Riya Sil, Dipanjan Saha and Abhishek Roy

URL: <https://www.youtube.com/watch?v=WVbEwd9MQNM>

- 49 Metrics for Measuring Progress and Productivity In Agile Software development
Sanjay Misra and Robertas Damasevicius
URL: <https://youtu.be/EjZmRAkWpc0>
- 50 Renewable Energy in Rural Economy: Nigeria
Abubakar John and Sanjay Misra
URL: <https://youtu.be/oFFfW04Xohs>
- 51 End-to-End Security in Communication Networks: A Review
Okpe Jonah Bameyi, Sanjay Misra and Ravin Ahuja
URL: [https://www.youtube.com/watch?v= DPIG5ncEjE](https://www.youtube.com/watch?v=DPIG5ncEjE)
- 52 Data Extraction Based on Web Scrapy
Reem Alshammari, Rwan Alrashed, Atheer Almutiri, Mathail Alwalah, Wadha Almarri, Dana Alqahtani and Amani Alzahrani
URL: <https://youtu.be/i5c89xiZijY>
- 53 Multicriteria model for sorting the quality of services provided by airports
Phelipe Medeiros Da Rocha and Helder Gomes Costa
URL: <https://youtu.be/ltOjkEEz7Kw>
- 55 Cyber Security Management Model For Critical Infrastructure And Improving The Security Level On Transferring Digital Data
Pradeep Bedi, S B Goyal, Jugnesh Kumar and Ritika
URL: <https://youtu.be/929NyV0ml6Q>
- 56 Smart Appointments Booking Systems for Social Distancing: Technologies and Solutions
Dabiah Alboaneen, Fatimah Almuhsin, Naba Almadan, Atheer Almarhoon, Hawra Al Mohssin, Thowiba Hagali Ahmed and Enas E. El-Sharawy
URL:
- 57 Security Challenges of Digital Currency System
Shaun De Silva, S B Goyal and Pradeep Bedi
URL: <https://www.youtube.com/watch?v=KfY2y82YfLI&feature=youtu.be>