



SoCPaR 2020 – IAS 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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09:00 - 10:00 GMT: SoCPaR - 01

24 Subspace guided collaborative clustering based on optimal transport
Fatima Ezzahraa Ben Bouazza, Younès Bennani, Abdelfettah Touzani and
Guenaël Cabanes

28 A New Genetic-Based Hyper-Heuristic Algorithm for Clustering Problem
Mohammad Babrdel Bonab, Goi Bok-Min, Madhavam Balan Nair, Chua Kein
Huat and Wong Chim Chwee

30 Towards Lip Motion Based Speaking Mode Detection Using Residual Neural
Networks
Sadia Afroze and Moshikul Hoque

35 3D Wireframe Model of Medical and Complex Images Using Cellular Logic Array
Processing Techniques
Shilpa Rani, Kamlesh Lakhwani and Sandeep Kumar

10:00 - 11:00 GMT: SoCPaR - 02

- 44 Underwater moving object detection using GMG
Vrushali Pagire
- 49 Handwritten Signature Verification using Complex Wavelet Transform and Mutual Information based Kernel
Anushka Desai, Vraj Mashruwala and Manish Khare
- 51 Delving into Feature Maps: An Explanatory Analysis to Evaluate Weight Initialization
Meenal Narkhede, Prashant Bartakke and Mukul Sutaone
- 63 Forensic Analysis of Copy-Move Attack with Robust Duplication Detection
Hudan Studiawan, Rahmat Nazali Salimi and Tohari Ahmad

11:00 - 12:00 GMT: SoCPaR - 03

- 68 Early diagnosis of Parkinson's disease using LSTM: A Deep Learning Approach
Amit Gawade, Rohit Pandharkar, Subodh Deolekar and Uday Salunkhe
- 77 The fusion of features for detection of cotton wool spots from digital fundus images
Asmita Deshpande and Parashuram Bannigidad
- 82 Project comparison method supporting participatory budget process - Poznan case study
Aleksandra Rutkowska, Dariusz Walczak and Agata Filipowska

12:00 - 13:00 GMT: SoCPaR - 04

- 83 Seeding initial population, in genetic algorithm for features selection
Marc Chevallier, Nicoleta Rogovschi, Faouzi Boufares, Nistor Grozavu and Charly Clairmont
- 85 Depth Image Completion using Anisotropic Operators
Vanel Lazcano, Felipe Calderero and Coloma Ballester
- 89 Acousto-Prosodic Delineation and Classification of Speech Disfluencies in Bilingual Children
Sheena Christabel Pravin and Palanivelan Manikavelu

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 Guimar?es, 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 Garc?a, University of Granada, Granada, Spain

11:00 - 12:00 GMT:

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

12:00 - 13:00 GMT:

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

13:00 - 14:00 GMT: IAS - 01

1 A Secure Bayesian Compressive Spectrum Sensing Technique Based Chaotic Matrix for Cognitive Radio Networks
Salma Benazzouza, Mohammed Ridouani, Fatima Salahdine and Aawatif Hayar

7 Zero Trust User Access & Identity Security in Smart Grid based SCADA Systems
Abdul Wahid Mir and Ketti Ramachandran Ramkumar

11 Create a hybrid algorithm by combining Hill and Ad-vanced Encryption Standard Algorithms to Enhance Efficiency of RGB Image Encryption
Rania Tabeidi, Hanaa Morse, Samia Masaad, Reem Alshammari and Dalia Alsaffar

13 A New Electronic Voting System based on elliptic curve in a Cloud Computing Environment
Meryem Cherkaoui Semmouni, Ali Azougaghe, Abderrahmane Nitaj and Mostafa Belkasmi

14:00 - 15:00 GMT:

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

15:00 - 16:00 GMT: IAS - 02

- 15 Study on the different types of neural networks to improve the classification of ransomwares
Houria Madani, Noura Ouerdi, Ahmed Boumesaoud and Abdelmalek Azizi
- 17 Detection of vulnerabilities related to permissions requests for Android apps using Machine Learning techniques
Gouayon Koala, Didier Bassolé, Yaya Traoré, Franklin Tchakounte and Oumarou Sié
- 18 A New Approach to Detecting Bot Attack Activity Scenario
Dandy Hostiadi, Tohari Ahmad and Waskitho Wibisono
- 28 A Novel Image Encryption Technique Using Multiple One Dimensional Chaotic Map
Shahna K U and Anuj Mohamed
- 32 Edge Computing Enabled Technologies for Secure 6G Smart Environment - An overview
Syed Usman Jamil, Muhammad Arif Khan and Sabih Rehman

December 17, 2020 - Thursday

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09:00 - 10:00 GMT:

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

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 SoCPaR 2020

- 4 Mask RCNN for Human Motion and Actions Recognition
Soumaya Zaghbani
URL:
- 5 Intelligent and Secure Autofill System in Web Browsers
Joy Bose
URL: <https://www.youtube.com/watch?v=5l4cliJ717c>

- 8 Synthesis Biometric Materials based on Cooperative among Graph Mining Techniques (DSA, WOA & gSpan-FBR) to Water Treatment
Samaher Al-Janabi
URL:
- 10 An Initial Parameter Search for Rapid Concept Drift Adaptation in Deep Neural Networks
Muhammad Zafran Bin Muhammad Zaly Shah and Anazida Binti Zainal
URL: <https://youtu.be/t49ovd0q8lc>
- 12 A Comparison of Swarm Intelligence Algorithms Exploiting a Novel Neighbour Generation Technique
Gözde Alp and Ali Fuat Alkaya
URL: <https://www.youtube.com/watch?v=4i2zcipsZxU>
- 14 A Proposal for the Automatic detection of Skin Cancer Based on Image Characteristics of Shape, Colour, and Texture
Hugo Maia and Marcos Cintra
URL: <https://youtu.be/XPsbJsMav0g>
- 15 Breast Cancer Detection in Infrared Thermal Images Using Convolutional Neural Networks: A Transfer Learning Approach
Swapna Davies and Anand S
URL: <https://youtu.be/trA3iPAI5Vg>
- 16 Implementation of a system for collecting and analyzing public and open access information from Brazilian federal legislative houses
Iván José Mestre Fernández and Leonardo Souza Mendes
URL: <https://youtu.be/ITvaMjFN21k>
- 21 Data Origination: Human-centered Approach for Design, Acquisition, and Utilization of Data
Teruaki Hayashi and Yukio Ohsawa
URL: <https://youtu.be/5iLMdHYYlog>
- 22 Coarse-Grained Genetic Algorithm for Flexible Job Scheduling Problem
Eliot Bytyçi, Artan Berisha and Fis Geci
URL: <https://youtu.be/0uxTERxN0PQ>
- 23 Computer Vision and AI Improving the Lives of Physically Disabled by the means of Perceptual User Interfaces
Hemshree Madaan, Shubham Gupta and Anirudh Jain
URL: <https://youtu.be/eEe5IWDdehOo>
- 26 Exploring An automatic assessment-based features for clustering of students' academic performance

Anita Qoiriah, Yuni Yamasari, Asmunin Asmunin, Andi Iwan Nurhidayat and Rina Harimurti

URL: <https://youtu.be/HfxZWzX2R4I>

27 Quantum Semi Non-Negative Matrix Factorization
Kaoutar Benlamine, Younès Bennani, Basarab Matei and Nistor Grozavu

URL: <https://youtu.be/Gc4msXkDMHQ>

29 LSTM vs. GRU for Arabic Machine Translation
Nouhaila Bensalah, Habib Ayad and Abdellah Adib

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

32 Reducing the Error Mapping of the Students' Performance using Feature Selection

Yuni Yamasari, Naim Rochmawati, Anita Qoiriah, Dwi F. Suyatno and Tohari Ahmad

URL: <https://youtu.be/gAVVKpFJ8VI>

33 Spatial Graph Regularized Correlation Filters for Visual Object Tracking
Sajid Javed, Xiao Zhang, Jorge Dias, Lakmal Lakmal Seneviratne and Naoufel Werghe

URL: <https://youtu.be/bX5x-M4XNb8>

36 Suspicious activity detection using Transfer learning based ResNet tracking from surveillance videos

Shubhangi Kale and Raghunathan Shriram

URL:

42 Vehicle Detection in UAV Videos using CNN-SVM
Najiya Valappil and Qurban Memon

URL: <https://youtu.be/Fir3L4TWNHo>

45 Linear Dilation-Erosion Perceptron Trained Using a Convex-Concave Procedure
Angélica Lourenço Oliveira and Marcos Eduardo Valle

URL: https://youtu.be/QKSY8W6XI_I

47 Smart Phone Sensor-Based Human Activity Recognition using Machine Learning Techniques

Taki Hasan Rafi

URL: <https://youtu.be/kzE6RHMSn6Y>

48 Wavelet Filtering for Limited-Angle and Low-Dose Computed Tomographic Reconstruction

Thavavel Vaiyapuri

URL:

- 50 Multi-Scale Oriented Basic Image Features Column for Handwritten Digit Recognition
Abdeljalil Gattal, Chawki Djeddi, Jamil Akhtar and Ameer Bensefia
URL: <https://www.youtube.com/watch?v=AQgUrUkpEI>
- 52 Historical Kannada Handwritten Character Recognition using Machine Learning Algorithm
Parashuram Bannigidad and Chandrashekar Gudada
URL: <https://youtu.be/vEARJfNAGrk>
- 53 Home Health Care Network Management Under Fuzzy Environment Using meta-heuristic algorithms
Fariba Goodarzian, Aida Goodarzian, Ajith Abraham and Sohaib Dastgoshade
URL: <https://youtu.be/Rf-FL5b6c6w>
- 54 The Lagrangian Relaxation Approach for Home Health Care Problems
Sohaib Dastgoshade, Ajith Abraham and Nazanin Fozooni
URL: <https://youtu.be/zhOaZ2TNFcY>
- 55 Study on Vision System for Disease Detection Using CNN and LabVIEW of an Agricultural Robot
Pradeep Nahak, Atanu Jana, Dilip Kumar Pratihari, Alok Kanti Deb and Hena Ray
URL: <https://youtu.be/3MmiHVrsq3k>
- 56 An Autonomous Galactic Swarm Optimization Algorithm Supported by Hidden Markov Model
Mauricio Castillo, Broderick Crawford, Ricardo Soto, Wenceslao Palma, José Lemus-Romani, Diego Tapia, Felipe Cisternas-Caneo, Marcelo Becerra-Rozas, Fernando Paredes and Sanjay Misra
URL: <https://youtu.be/QIGsXVwSR3g>
- 58 Machine Learning for Breast Cancer Diagnosis and Classification using hand-crafted features
Dhawa Sang Dong and Suraj Kandel
URL: <https://www.youtube.com/watch?v=ilzoacuJMcE&t=11s>
- 60 Automatic Seeded Region Growing with Level Set Technique Used for Segmentation of Pancreas
Pradip Paithane, Dr.S.N. Kakarwal and Dr.D.V. Kurmude
URL:
- 61 Sustainability Considerations in the Product Design Using System Dynamics and Fuzzy Cognitive Maps
Elahe Mohagheghian, Hasan Hosseini-Nasab, Ajith Abraham and Mohammad-Bagher Fakhrazad
URL: <https://youtu.be/Dljvy-IKxIM>

- 62 Dominant voiced speech segregation and noise reduction pre-processing module for hearing aids and speech processing applications
Shibani Hamsa, Youssef Iraqi, Ismail Shahin and Naoufel Werghi
URL: <https://youtu.be/4M61WLAJBDO>
- 64 Feature selection approach based on a novel variant of hybrid differential evolution and PSO for sentiment classification
Abhishek Dixit, Ashish Mani and Rohit Bansal
URL: <https://youtu.be/CJ2aAaa3Q-8>
- 65 A Comparative Study for Fisheye Image Classification: SVM or DNN
Zhen Chen and Anthimos Georgiadis
URL: <https://youtu.be/PtlmxisDab4>
- 66 A Survey on Applications of Modern Deep Learning Techniques in Team Sports Analytics
Gervas Batister Mgaya, Hongbo Liu and Bo Zhang
URL: <https://youtu.be/jnlBWppJ--s>
- 67 Describing Brachiopods shape based on fusion of Curvature and Fourier descriptors
Youssef Ait Khouya, Faouzi Ghorbel and Mohmmmed Ait Oussous
URL:
- 69 Using the \$K\$-nn algorithm to segment a foetus brain MRI --- a case study
Paulo Salgado and Teresa Paula Azevedo Perdicoulis
URL: <https://youtu.be/PnkoZBCaLJE>
- 71 Design of a Closed Supply Chain with regards to the Social and Environmental Impacts under Uncertainty
Omid Abdolazimi, Mitra Salehi Esfandarani and Ajith Abraham
URL: <https://youtu.be/OC26JBE9f1E>
- 72 Contour Method for Ultrasound Images
Paulo Salgado and Paulo Afonso
URL:
- 74 Unsupervised learning from data and learners
Yohan Foucade and Younès Bennani
URL: <https://youtu.be/EdalWefQPrA>
- 75 Using Microsoft Kinect v2 to record custom exercises for physical disability rehabilitation
Shourav Bin Rabbani, Amin Ahsan Ali and M Ashrafal Amin
URL: <https://youtu.be/kR4uOzL6Gbw>

- 76 Customer Churn Prediction using Deep Learning
Omer Faruk Seymen, Onur Dogan and Abdulkadir Hiziroglu
URL: <https://www.youtube.com/watch?v=gcUT8VGeun8>
- 78 Thyroid Nodule Cell Classification In Cytology Images Using Transfer Learning Approach
Ahsan Baidar Bakht, Sajid Javed, Roberto Dina, Hasan Almarzouqi, Ahsan Khandoker and Naoufel Werghi
URL: <https://youtu.be/quJDiAoY9g4>
- 79 Deep Fusion Driven Semantic Segmentation for the Automatic Recognition of Concealed Contraband Items
Muhammad Shafay, Taimur Hassan, Divya Velayudhan and Naoufel Werghi
URL: <https://youtu.be/JtontlzT9Ss>
- 84 An Incremental Fuzzy Learning Approach for Online Classification of Data Streams
Vladyslav Yavtukhovskiy, Rami Abukhader, Nils Tillaeus and Ning Xiong
URL: <https://youtu.be/EeaEiRvrEdw>
- 88 Performance Analysis of Machine Learning Approaches for Prediction of Human Cardiac Complications
Shital Patil and Surendra Bhosale
URL: <https://youtu.be/ZAk7Tx8d4KY>
- 90 Real-Time Traffic Sign Recognition and Classification using Deep Learning
Ilaiah Kavati
URL: <https://youtu.be/AgvGAqEDqqM>
- 91 Merits of Mixotrophic cultivation for microalgal biomass production
Geetanjali Udawat, Niketa Gandhi and Sanjay Deshmukh
URL:
- 93 Deep Neural Network based Phishing Classification on a High-Risk URL Dataset
Mehmet Korkmaz, Emre Kocyigit, Ozgur Koray Sahingoz and Banu Diri
URL: <https://youtu.be/5VvLKe3XvT4>

OFFLINE Presentations of IAS 2020

- 2 Optimized machine learning techniques for IoT Cyber attacks Detection
Yassine Maleh, Abdelkebir Sahid Sahid and Mustapha Belaisaoui
URL: <https://www.youtube.com/watch?v=NHKKfsYcjU4>
- 3 Inadequacy of IT approaches to manage cyber security in ICS context
Omar El Idrissi, Abdellatif MEZRIOUI and Abdelhamid BELMEKKI
URL: <https://youtu.be/-QsUo6FkKAM>

- 4 Trust-based intrusion detection for Multi Path OLSR protocol
Hicham Zougagh, Nouredine Idboufker and Youssef Saadi
URL: <https://youtu.be/ZoAdYQFWrN0>
- 6 Bitcoin Technology and its Security Challenges: A Research Survey
Jayaprakash Kar, Aman Bhargava, Kartik Shankhavaram and Priyanshu Agarwal
URL: <https://youtu.be/lieebcXER50>
- 8 Man-in-the-browser attacks against IoT devices: a study of smart homes
Sampsa Rauti, Samuli Laato and Tinja Pitkämäki
URL: <https://www.youtube.com/watch?v=Hktz7yfrpOU>
- 9 Scambaiting as a form of online video entertainment: An exploratory study
Samuli Laato and Sampsa Rauti
URL:
https://www.youtube.com/watch?v=FmF28Qd5PHY&feature=youtu.be&ab_channel=sakke
- 12 An improved smart wheat health monitor for smart farming application using deep residual learning framework
Mohammed Elidrissi, Omar Elbeqqali and Jamal Riffi
URL: <https://youtu.be/R8zomtwzuGc>
- 14 Investigation of stereo camera calibration based on Python
Elmehdi Adil, Mohammed Mikou and Ahmed Mouhsen
URL: <https://youtu.be/Jrt8PbWevR0>
- 16 Quality of Service Evaluation with DSR (Dynamic Source Routing) protocol in the classroom ad hoc network of the New Generation of Digital Open Universities (DOUNG)
Mahamadou Issou Tiado
URL: <https://youtu.be/FnLkZ9NRMVo>
- 19 A Log-Based Method to Detect and Resolve Efficiently Conflicts in Access Control Policies
Maryem Ait El Hadj, Ahmed Khoumsi, Yahya Benkaouz and Mohammed Erradi
URL: <https://www.youtube.com/watch?v=NHV9kTn4rvq>
- 21 A Hybrid Policy Engineering Approach for Attribute-based Access Control (ABAC)
Manar Alohaly and Daniel Takabi
URL:
- 23 Anomaly Detection in the Internet of Things (IoT) by Using Artificial Immune System
Noe Elisa, Longzhi Yang, Fei Chao and Nitin Naik
URL: <https://www.youtube.com/watch?v=28eYqsD8k6E>

- 25 Agreement-Broker: Performance analysis using KNN, SVM, and ANN classifiers
Zineb Bakraouy, Amine Baina and Mostafa Bellafkih
URL:
- 26 Secret disclosure attacks on a recent ultralightweight mutual RFID authentication protocol for blockchain-enabled supply chains
Zahra Ebadi Ansaroudi and Paolo D'Arco
URL: <https://youtu.be/NwSyQnuvDOE>
- 29 Use of cryptography for monetary issuance And securing financial transactions
Mamadou Mamadou, Cheikhou Thiam and Mamadou Mbaye
URL: https://youtu.be/WSNleFm_IWQ
- 30 MAAMSIC: Multimodal Authentication and Authorization Model For Security of IoT Communication via GSM Messaging in Sub-Saharan Africa
Joan Nabusoba, Calvins Otieno and Wilson Cheruiyot
URL: <https://youtu.be/4k7Ftpo5RKc>
- 31 Towards a proactive system of DDoS attacks detection in the cloud
Mohamed Ouhssini, Karim Afdel and Elhafed Agherrabi
URL: <https://youtu.be/gey8wJAUtl>
- 33 Secure QIM-based Image Watermarking in JPEG Compression Domain
Victor Fedoseev and Daniil Kozlov
URL: <https://youtu.be/i7VLO7QkN3E>
- 34 Security and Privacy on IoMT
Noura Alqahtani and Latifah Almaiman
URL:
- 35 Biometric Template Protection using Deep Learning
Ashutosh Singh, Yogendra Narain Singh and Pramod Kumar
URL: <https://youtu.be/NZXkEwvdCbU>
- 36 Inner and outer race bearing defects of induction motor running at low speeds signal analysis with DWT
Bellal Belkacemi and Saad Salah
URL:
- 38 Transformation of PrivUML into XACML using QVT
Jihane El Mokhtari, Anas Abou El Kalam, Siham Benhadou and Jean-Philippe Leroy
URL: <https://youtu.be/ouDnoYApT1k>
- 39 Robust and Secure watermarking technique for e-health application

Hedi Choura, Faten Chaabane, Tarek Frikha and Mouna Baklouti
URL: <https://www.youtube.com/watch?v=HG0v4XicmXc>

40 Emoji score and polarity evaluation using short name of emoji and expression sentiment

Shelley Gupta, Archana Singh and Jayanthi Ranjan
URL: <https://youtu.be/ZI8pumWqvrE>

41 Dynamic and Decentralized Trust Management for the Internet of Things (IoT) paradigm

Kazi Masum Sadique, Rahim Rahmani and Paul Johannesson
URL: <https://youtu.be/JHMrMGaxoME>

42 Comparison of Parental Control Systems for Blocking Advertisements on a Home Network

Khaznah Alhajri, Wadha Almarrai, Amani Alzahrani, Ezaz Aldahasi, Maha Alghamdi and Dabiah Alboaneen
URL: https://youtu.be/uMgSfWTD_6c