



HIS 2020 – NaBIC 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

10:00 - 11:00 GMT: HIS - 01

- 4 Auto-encoder based Wavelet and Extreme Learning Machine for face recognition
Mariem Kadri, Salwa Said and Ridha Ejbali
- 5 Sparse Wavelet Auto-Encoder for Covid-19 Cases Identification
Houda Lazrag, Ramzi Ben Ali and Ridha Ejbali
- 14 Text Classification Using Convolution Neural Networks with FastText Embedding
Md. Rajib Hossain and Moshiul Hoque
- 16 Deep Convolutional Neural Network Based on Wavelet Transform for Super
Image Resolution
Nesrine Chaibi, Asma Eladel and Mourad Zaied
- 31 Inverse Neural Control of a Magnetic Levitation System: Experimental Results
Bruno E. Silva and Ramiro S. Barbosa

11:00 - 12:00 GMT: HIS - 02

- 36 Optimal design of fuzzy controllers using the Multiverse optimizer
Lucio Amezquita, Oscar Castillo, Jose Soria and Prometeo Cortes-Antonio
- 40 Optimal design of a fuzzy system with a real-coded genetic algorithm for
Diabetes classification

Julio Cesar Monica, Patricia Melin and Daniela Sanchez

- 43 Stochastic Fractal Dynamic Search for the optimization of CEC'2017 benchmark functions
Marylu Lagunes, Oscar Castillo, Fevrier Valdez and Jose Soria
- 45 Face mask detection using Deep Learning
Rashmi Arora, Jayant Dhingra and Abhinav Sharma
- 46 Wavelet feature with CNN for identifying parasitic egg from a slender-billed's nest
Nhidi Wiem, Chokri Mohamed Ali and Ejbali Ridha

12:00 - 13:00 GMT: HIS - 03

- 47 Evaluation of an Open Source Solver to Assist the Non-Urgent Patients Transport Problem
Emanuel Lopes and Eliana Costa E Silva
- 55 Predicting Individual Substance Abuse Vulnerability
Iqbal Sarker
- 59 The design requirements of a decision support system for waste control
Mahmoud Ershadi, Marcus Jefferies, Peter Davis and Mohammad Mojtahedi
- 66 Deep Human Action Recognition System for Assistance of Alzheimer's Patients
Rimeh Jarray, Ahmed Snoun, Tahani Bouchrika and Olfa Jemai

13:00 - 14:00 GMT: NaBIC - 01

- 1 Cost-Conscious Internal Information Maximization for Disentangling and Interpreting Multi-Layered Neural Networks
Ryotaro Kamimura
- 5 An Extensive Survey on Deep Learning Approach for Crop Diseases Management
Vaishali Nirgude and Sheetal Rathi
- 15 An Artificial Orca Algorithm for Continuous Optimization
Lydia Sonia Bendimerad and Habiba Drias
- 19 Particle swarm optimization for query items re-rating
Ilyes Khennak, Habiba Drias and Yassine Drias

14:00 - 15:00 GMT: NaBIC - 02

- 22 Pastoralist Optimization Algorithm (POA): A Culture-Inspired Metaheuristic For Uncapacitated Facility Location Problem (UFLP)

Ibrahim Mohammed Abdullahi, Muhammed Bashir Mu'Azu, Olayemi Mikail Olaniyi and James Agajo

23 Enhancing Assistive Technology with Biomimicry and Social Robots
Saurav Gandhi and Ayush Goyal

26 Incorporation of additional modules within Particle Swarm Optimization for feasibility conditions of multi-index Transportation Problem
Gurwinder Singh, Amarinder Singh and Bikramjit Singh

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

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

12:00 - 01:00 GMT: NaBIC - 03

14 Self-parameterized swarm intelligence algorithms for targets' detection in complex and unknown environments.

Naila Aziza Houacine and Habiba Drias

15:00 - 16:00 GMT:

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

OFFLINE Presentations of HIS 2020

2 Vertical Interior Distance Ratio to Minimum Bounding Rectangle of A Shape

Zekun Li, Baolong Guo, Xia Ren and Nannan Liao

URL: <https://youtu.be/LHnB17rh-SQ>

6 Design Guide Prediction Model for the legal Interactions (GPM-LI)

Samaher Al-Janabi and Gada K.

URL:

7 Unsupervised image segmentation using THMRF model

Mouna Zitouni, Mourad Zribi and Afif Masmoudi

URL: <https://youtu.be/-dHAvOuFOsY>

8 Maximizing an organization's operating enactment in the areas of planning and management

Sajid Ahmed Mohamed Abdul Kader and Kinslin Devaraj

URL: <https://youtu.be/bOVdcT68s-s>

10 Accent and Gender Recognition from English Language Speech and Audio Using Signal Processing and Deep Learning

Jagjeevan Singh Shergill, Chandresh Pravin and Varun Ojha

URL: <https://www.youtube.com/watch?v=jcdnKjUH78M&feature=youtu.be>

- 11 Improved Path Planning with Memory Efficient A* Algorithm and Optimization of Narrow Passages
Thomas Hanne, Rolf Dornberger and Lukas Weber
URL: <https://tube.switch.ch/videos/19028761>
- 12 Intelligent mobile application to determine the existence of medicines associated with COVID'19 in a social network of medical dispensaries in a Smart City.
Alberto Ochoa-Zezzatti and Marco Julio Del Moral
URL:
- 13 NoSQL Data Lake: A Big Data Source From Social Media
Hichem Dabbèchi, Nahla Zaaboub, Haytham Elghazel and Kais Haddar
URL:
- 17 Optimizing Instance Selection Strategies in Interactive Machine Learning: An Application to Fraud Detection
Davide Carneiro, Miguel Guimarães and Miguel Sousa
URL:
- 18 Building IoT Analytics and Machine Learning with Open Source Software for Prediction of Environmental Data
Ha Duyen Trung, Nguyen Xuan Dung and Nguyen Huu Trung
URL: <https://youtu.be/8HonHFOriA>
- 19 ANFIS-based Inverse Kinematics and Forward Dynamics of 3 DOF Serial Manipulator
Deepak Deshmukh, Dilip Kumar Pratihar, Alok Kanti Deb, Hena Ray and Alokesh Ghosh
URL: <https://youtu.be/ZBS126UaQC0>
- 20 Design and Development of Intelligent Pesticide Spraying System for Agricultural Robot
Deepak Deshmukh, Dilip Kumar Pratihar, Alok Kanti Deb, Hena Ray and Nabarun Bhattacharyya
URL: https://youtu.be/luvUs_qg93Q
- 21 Solving Dynamic Bag-of-Tasks Scheduling Problem in Heterogeneous Multi-cloud Environment Using Hybrid Bi-level Optimization Model
Mouna Karaja, Meriem Ennigrou and Lamjed Ben Said
URL: <https://www.youtube.com/watch?v=4SEzEHxoKWI>
- 22 Caching mechanisms evolution in CCN architectures
Amna Fekih, Sonia Gaied Fantar and Habib Youssef
URL: <https://youtu.be/xEzboqGeb7M>

- 23 SentiLSTM: A Deep Learning Approach for Sentiment Analysis of Restaurant Reviews
Eftekhar Hossain, Omar Sharif and Mohammed Moshiul Hoque
URL:
- 24 Characterizing Antennas' Radiation Pattern Using Bernoulli Lemniscates
Wissal Attaoui, Essaid Sabir and Elmehdi Amhoud
URL: <https://youtu.be/ouhw1z2CrJo>
- 25 Analysis of Metaheuristics Feature Selection Algorithm for Classification
Samuel-Soma Ajibade, Nor Bahiah Ahmad and Zainal Anazida
URL: https://youtu.be/LAd4_xcQMhw
- 26 Comparison between a Genetic Algorithm and Hybrid Genetic Algorithms to Solve the TSP
Thomas Hanne, Rolf Dornberger, Dejan Trifunovic and Janic Mathias Istanto
URL:
- 27 Hybridization of adaboost with random forest for real-time prediction of online shoppers' purchasing intention
Karim Baati
URL:
- 29 Change Detection in Satellite Imagery: a multi-label approach using Convolutional Neural Network
Anurag Priyadarshi and Pramod Kumar Singh
URL: <https://youtu.be/gPxT0BacnNk>
- 32 COVID-19 Detection using Deep Learning
K Reddy Madhavi, P Anjaiah, T Venkata Ratnam and Padmavathi Kora
URL:
- 34 An Isolation Forest Learning Based Outlier Detection Approach for Effectively Classifying Cyber Anomalies
Iqbal Sarker
URL:
- 35 An Effective Heart Disease Prediction Model based on Machine Learning Techniques
Iqbal Sarker
URL:
- 37 A New Bi-Objective Classic Transportation Model Considering Social Justice
Sohaib Dastgoshade and Ajith Abraham
URL: <https://youtu.be/ioYZEO7hGQg>

- 39 Emotion Recognition using Multimodalities
Ajay Kharat, Ashish Patel, Dhruv Bhatt, Nand Parikh and Hemant Rathore
URL: <https://www.youtube.com/watch?v=LCcwi8DWJgg&feature=youtu.be>
- 41 An Enhanced Auto Adaptive Vector Evaluated-Based Metaheuristic for Solving the Environmental Economic Dispatch Problem
Leticia de Fátima Corrêa Costa, Omar Andres Carmona Cortes and João Pedro Augusto Costa
URL: <https://youtu.be/7GShzwoIVKY>
- 42 HILNER: A Hindi Language Named Entity Recognition System based on Hybrid Approach
Shilpi Srivastava
URL: <https://youtu.be/TQdJBd1f56w>
- 49 IMPROVING COLLABORATIVE FILTERING USING JMSD ON IMPLICIT FEEDBACK
Preeti Arora, Abhishek Bindra, Abhishek Chand, Aman Dhilod and Aniket Sharma
URL: <https://youtu.be/yOpB87iViSE>
- 50 Sentence Similarity Computation Based on Deep Learning
Wafa Wali and Bilel Gargouri
URL: https://youtu.be/Mgy-p0doK_8
- 52 An RDF Based Semantic Framework for Personalized Web Image Search
Gerard Deepak and Santhanavijayan A
URL:
- 58 Detection of Fake News based on Domain Analysis and Social Network Psychology
Dipayan Deb, Ratti Sai Pavan, Azad Nautiyal, Ameya Phadnis and Hemant Rathore
URL:
- 61 Toworads a new approach for dealing with Uncertainty in Sleep Stages Classification Belief eXtended Classifier System
Rahma Ferjani, Lilia Rejeb and Lamjed Ben Said
URL:
- 64 Evaluation of Data Augmentation for Detection Plant Disease
Fatma Marzougui, Mohamed Elleuch and Monji Kharallah
URL: <https://www.youtube.com/watch?v=dvbBOirosY>
- 65 Movie Recommendation System Addressing Changes in User Preferences with Time

Dhairya Parikh, Dilpreet Kaur, Kajal Parikh, Prakhar Yadav and Hemant Rathore
URL: https://www.youtube.com/watch?v=k_XOiXKxPxA&feature=youtu.be

69 Internet of Things: Applications, Adoptions and Components -A Conceptual Overview

Alfa Ayegba Abraham, Sanjay Misra, Oluranti Jonathan and Dr.Ravin Ahuja
URL: https://www.youtube.com/watch?v=0p6V_4Nh90I

70 ExplainEx: An Explainable Artificial Intelligence Framework for Interpreting Predictive Models

Nnaemeka E. Udenwagu, Ambrose Azeta, Sanjay Misra and Dr.Ravin Ahuja
URL: <https://youtu.be/VjkmthHhOOcA>

71 Enhancing the Low Adoption Rate of M-commerce in Nigeria through Yorùbá Voice Technology

Kehinde Ajayi, Ambrose Azeta, Sanjay Misra and Dr.Ravin Ahuja
URL: <https://youtu.be/Q6CeL14TW4M>

72 Blockchain-Based Framework for Secure Transaction in Mobile Banking Platform
Awotunde Joseph Bamidele, Roseline Ogundokun, Sanjay Misra and Dr.Ravin Ahuja

URL: <https://youtu.be/k9MPnKgJaNs>

74 A Comprehensive Survey on TCP Congestion and incast Solutions in Data Center Networks

Houda Amari, Wassef Louati, Lyes Khoukhi and Lamia Hadrich Belguith
URL:

76 Analysis of Text Mining Tools in Disease Prediction

Shabnam K Tyagi, V Vani, Shaveta Malik, Amit Kumar Tyagi and Sravanti K Reddy
URL:

77 The Future With Advanced Analytics: A Sequential Analysis of the Disruptive Technology's Scope

Varsha Ramesh, Siddharth Nair, Amit Kumar Tyagi, Dr Aswathy S U and Radhakrishnan R
URL:

78 Modeling Topic Specific Credibility in Twitter based on Structural and Attribute Properties

Md. Habibur Rahman, Tabia Tanzin Prama and Md Musfique Anwar
URL: <https://www.youtube.com/watch?v=3ndicVmqlHQ&feature=youtu.be>

OFFLINE Presentations of NaBIC 2020

- 2 An island model genetic algorithm approach to tuning AI Bots
Parimala Thulasiraman and Riley Wall
URL: <https://youtu.be/rK2hTPZnZ-A>
- 4 Parameter Selection for Ant Colony Optimization for Solving the Travelling Salesman Problem Based on the Problem Size
Thomas Hanne, Rolf Dornberger, Philipp Kempter and Martin Peter Schmitz
URL: <https://tube.switch.ch/videos/3468966a>
- 8 Wind-power multi-step predictions in northeastern Brazilian regions using artificial neural networks
Yann Fabricio Cardoso de Figueiredo, Lidio Mauro Lima De Campos and Roberto Célio Limão de Oliveira
URL: <https://www.youtube.com/watch?v=FEo2HsaIXUU&feature=youtu.be>
- 9 Modelling IF Steels using Artificial Neural Networks and Automated Machine Learning
Douglas Macedo Sgrott, Fabricio Moreira Cerqueira, Fabiano J. F. Miranda, José F. S. Filho and Rafael Stubs Parpinelli
URL: <https://www.youtube.com/watch?v=bYWKgK-jRqA&feature=youtu.be>
- 11 Comparing Best and Quota Fragment Picker Protocols Applied to Protein Structure Prediction
Nilcimar Neitzel Will and Rafael Stubs Parpinelli
URL: <https://youtu.be/4l-jkFAeu3U>
- 12 Portable olfactometric platform for scent tea classification
Jeniffer Molina, Luis Fernando Valdez and Juan Manuel Gutiérrez
URL: <https://youtu.be/7Rf3YV-jt3Q>
- 16 Distance Minimization Problems for Multi-factorial Evolutionary Optimization Benchmarking
Shio Kawakami, Tomoaki Takagi, Keiki Takadama and Hiroyuki Sato
URL: <https://youtu.be/GK-wSiNlzwI>
- 18 Automatic white blood cell classification using Convolution Neural Network and Support Vector Machine
Kien Hoang Truong, Duc Nguyen Minh and Luong Duong Trong
URL: <https://youtu.be/XhGMMKzjmYo>
- 24 Shape From Shading: A Non-Iterative method using neural networks
Omar El Farouk Bourahla, Abderrahmane Mahdi Debbah, Lyes Abada and Saliha Aouat
URL: <https://www.youtube.com/watch?v=Ob2l1NrvhGk>

25 A Hierarchical Hidden Variable Model of Effective Housing Finance in Nigeria through SEM Smart-PLS

Anthonia Adediran and Hishamuddin Mohd Ali

URL: <https://youtu.be/OW1jcZRkc>

27 Breast cancer detection using texture features and KNN algorithm

Durgadevi Murugan and Mahendra Kanojia

URL: <https://youtu.be/ADWdw-wwayA>

28 Assessing Impacts of Low Flow on Kainji Hydro-Power Generation

Taiwo Oseni Amoo, Nekin Mnak Motebany, Abdultaofeek Abayomi, Uduak Umoh and Murimo Bethel Mutanga

URL: