



International Conference on Computing Science, Communication and Security (COMS2-2021)

held on
February 6th -7th February 2021

Glimpses of the Conference

Objective:

To provide a global platform to the academicians, researchers and scientists to exchange their newest research findings and publish their result findings in Scopus Indexed Springer CCIS Conference Proceedings

- Research Papers Received: 105 through Springer OCS System,
- Selected Novel Papers: 19 (Acceptance ratio 18%) under review by the Springer CCIS Editorial Board.
- Total Delegates : 135 from Seven Countries

Inaugural Session





A glimpse of virtually inaugural the conference with the presence luminaries Shri Ganpatbhai I. Patel (Padma Shri), President and Patron in Chief of Ganpat University, Dr. Ian T. Foster, Father of Grid Computing and Professor and Scientist of Computer Science, University of Chicago, USA, Dr. Akshai Aggarwal, Professor Emeritus, University of Windsor, Canada, Dr. Rajkumar Buyya, Director, Cloud Computing and Distributed Systems (CLOUDS) Lab, The University of Melbourne, Australia, Shri Rasesh Patel, Executive Vice President, AT&T, USA and BOG member of Ganpat University, Shri Arup R. Dasgupta, an eminent scientist and Former Deputy Director, Space Application Centre, Indian Space Research Organisation (ISRO), India, Dr. Mahendra Sharma, Pro. Chancellor of Ganpat University and Dr. Amit Patel, Pro. Vice Chancellor of Ganpat University. The conference declared open by Shri Ganpatbhai I. Patel, President and Patron in Chief, Ganpat University and Dr. Ian T. Foster, Father of Grid Computing for further proceedings.

Keynote Speakers-COMS2-2021

Plenary Session Talk 1:

International Conference on COMPUTING SCIENCE, COMMUNICATION AND SECURITY
February 6-7, 2021

Keynote Speaker
Saturday, February 6, 2021

Artificial Intelligence for Science

Prof. (Dr.) Ian T. Foster
Fellow of Grid Computing
Professor of Computer Science
University of Chicago, USA

10:20 am IST (GMT - 5:30 Hours)

AI for Science

IAN FOSTER
Director, Data Science and Learning Division, Argonne National Laboratory
Professor of Computer Science, University of Chicago
foster@cs.uchicago.edu

Relationships between AI/ML and HPC

HPC for ML, ML for HPC

- HPC for AI/ML: HPC Technologies are applied to learning tasks to accelerate computation and/or solve larger problems
- AI/ML for HPC: Learning Techniques are applied by HPC computers to improve their performance in some way, e.g., by choosing the most advantageous to perform

Robust Learned Function Accelerators (RLFAs)
Bridging between simulations and learned models

Physics Code, AI Engines (ML, DL, etc.), DOE Infrastructure, HPC, AI Accelerators, Data Storage

Zoom Webinar
Recording
You are viewing COMS2's screen
View Options

Prof. (Dr.) Ian T. Foster
Fellow of Grid Computing, Professor of Computer Science, University of Chicago, USA
foster@cs.uchicago.edu

Dr. Sanyen Parikh, G.

Dr. Anirudh Chaubey

Dr. Kiran Amin

17:08
06-02-2021

Plenary Session Talk 2:

Zoom Webinar

Recording

INTERNATIONAL CONFERENCE ON
COMS2 2021
**COMPUTING SCIENCE,
COMMUNICATION AND SECURITY**
February 6-7, 2021

Keynote Speaker
Saturday, February 6, 2021

**Resetting The Universities
After COVID-19**

Prof. (Dr.) Akshai Aggarwal
Professor Emeritus,
University of Windsor, Canada
Former Vice-Chancellor,
Ganpat Technological University, India

9:20 am IST (GMT + 5:30 Hours)

Dr. Ketan Patel, Dr. Satyen Par, Dr. Akshai Aggarwal, Sh. Ganpatbhai, Dr. Mahendra, Savita Gandhi, Dr. Hemal Shah, Dr. Ketan D Patel, Professor (Dr.)

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10:01
06-02-2021

Zoom Webinar

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INTERNATIONAL CONFERENCE ON
COMS2 2021
**COMPUTING SCIENCE,
COMMUNICATION AND SECURITY**
February 6-7, 2021

**Resetting The Universities
After COVID-19**

Prof. (Dr.) Akshai Aggarwal
The Strategic Imperative requires to
reorient ourselves to take
the opportunity for digital technology to
transform the learning, teaching and
researching. Software, Applications and
Security (COMS2) 2021

Dr. Satyen Parikh, G., Dr. Nishay Chaudhary, Dr. Kiran Amin

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17:08
06-02-2021

Plenary Session Talk 3:

Zoom Webinar

Recording

COMPUTING SCIENCE, COMMUNICATION AND SECURITY
February 6-7, 2021

Keynote Speaker
Saturday, February 6, 2021

Prof. (Dr.) Rajkumar Buyya
Director
Cloud Computing and
Distributed Systems (C2D4S) Lab,
The University of Melbourne, Australia

10:50 am IST (GMT + 5:30 Hours)

Dr. Ketan Patel, Dr. Satyen Pankh, G..., Dr. Dipali Dave, Professor (Dr.) Rajkum..., Dr. Nirbhay Chaubey, Dr. Kiran Amin

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11:00
06-02-2021

Zoom Webinar

You are viewing Professor (Dr.) Rajkumar Buyya's screen

Recording

Cloud Applications

- Scientific/Tech Applications
- Business Applications
- Consumer/Social Applications

Business Applications

Consumer/Social Applications

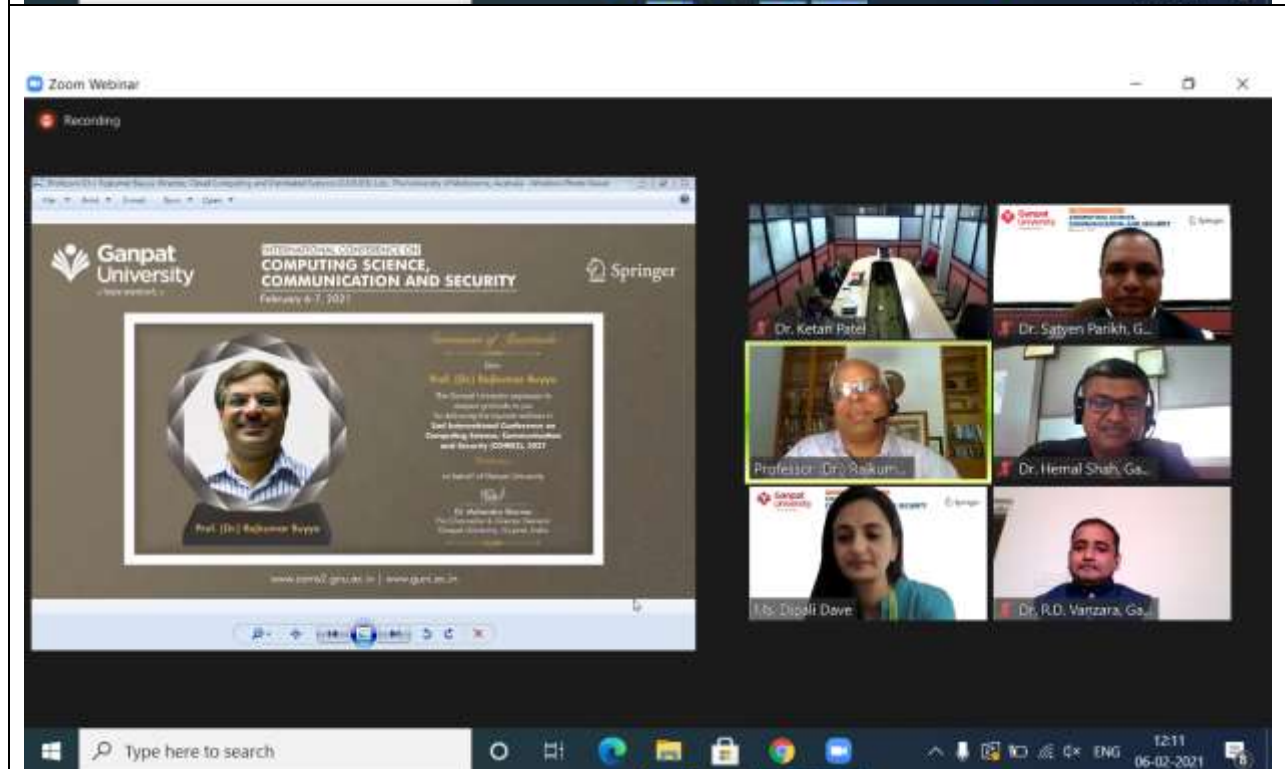
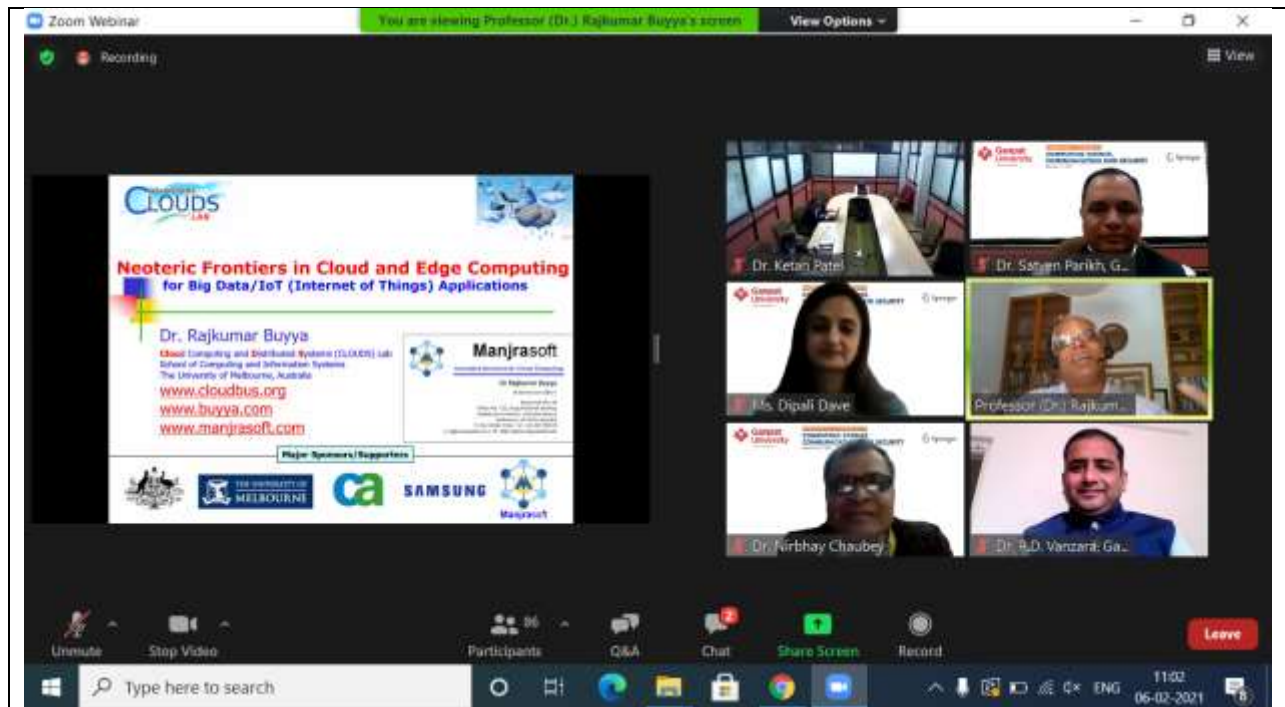
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Dr. Ketan Patel, Dr. Satyen Pankh, G..., Professor (Dr.) Rajkum..., Dr. Nirbhay Chaubey, Dr. Hermal Shah, Ga...

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11:16
06-02-2021



Plenary Session Talk 4:

Keynote Speaker
Sunday, February 7, 2021

Impact of
Emerging Technologies
and Challenges in
Cyber Physical System



10:00 am IST (GMT + 5:30 Hours)

Dr. K. K. Soundra Pandian
Scientist for Government of India (Govt),
Ministry of Electronics and
Information Technology,
Office of Controller of Certifying Authority (CCA),
New Delhi, India

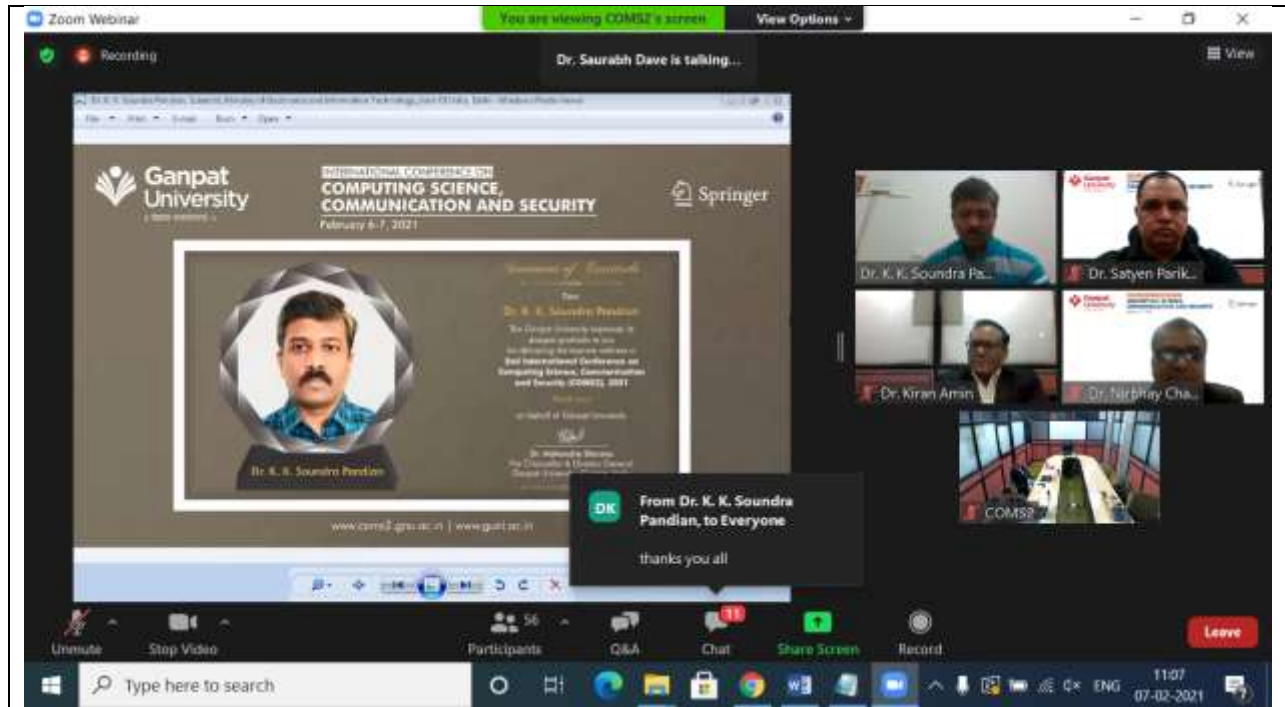
Zoom Webinar

Dr. Kiran Amin Ketan Patel Prof. Jagdishum...

Impact of Emerging Technologies and Challenges in Cyber Security System and Embedded IoT for Industrial Revolution

Dr. K. K. Soundra Pandian
Ph.D. (IIT-Patna), Post Doc (New York University)
Scientist, O/o CCA (DSC, eSign)

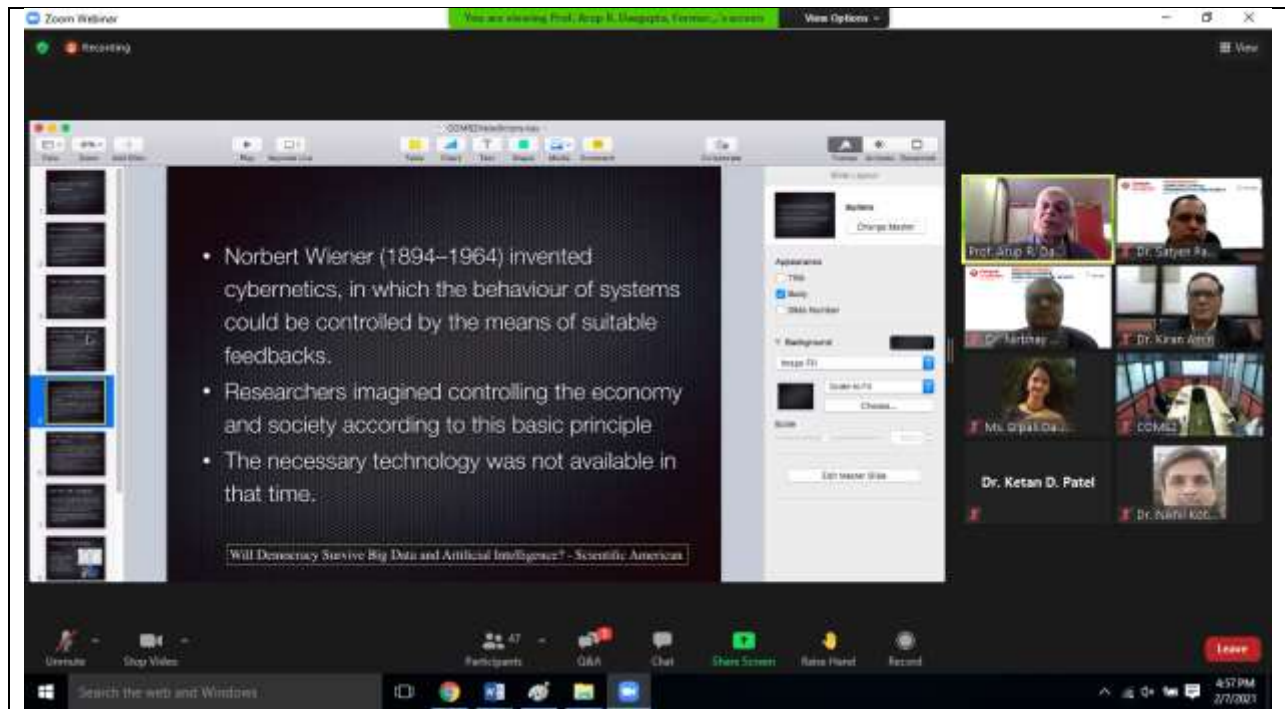
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Plenary Session Talk 5:

Veledictor Session





Paper Presentations of 19 Selected Novel Research Papers

Session Chairs- Track-1: Artificial Intelligence and Machine Learning



Technical
Session Chair



Dr. San
Professor
Ganpat Un
Ahmedabad

Technical
Session Chair



Dr. Snehal Joshi
Dean of Computer Science
Veer Hanuman Sahai Gajjar University
Gandol, India



Technical
Session Chair



Dr. Nishu

Technical
Session Chair



Dr. Nilesh Modi
Dr. Babasaheb Ambedkar Open University
Ahmedabad, India

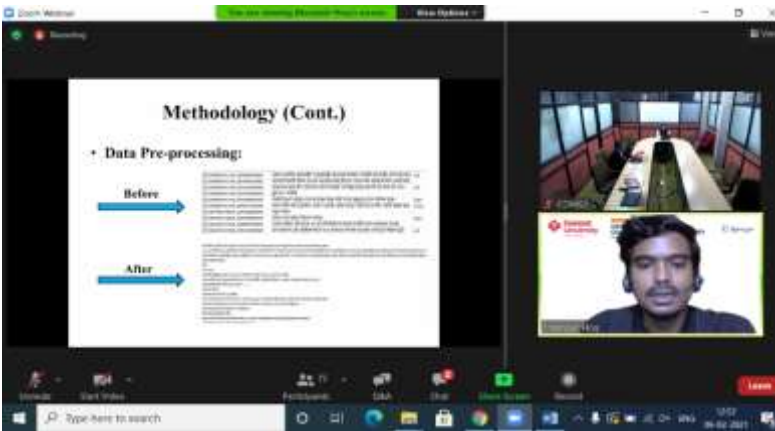
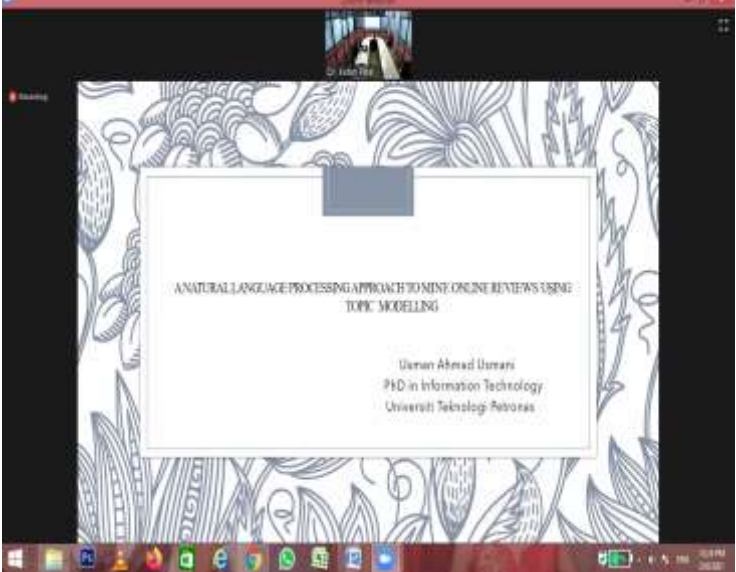
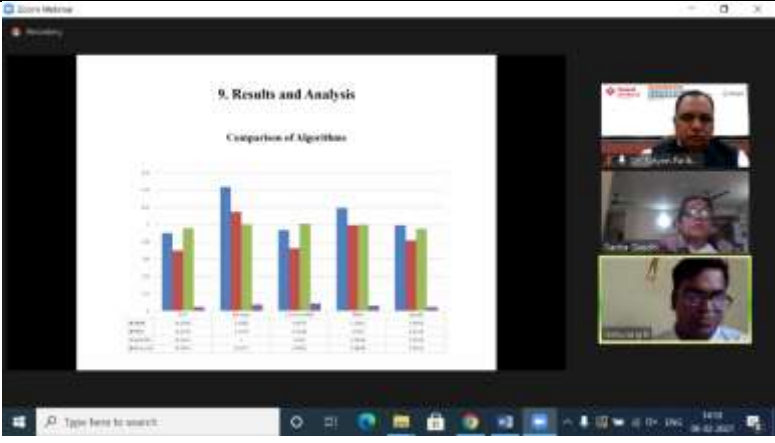


Technical
Session Chair



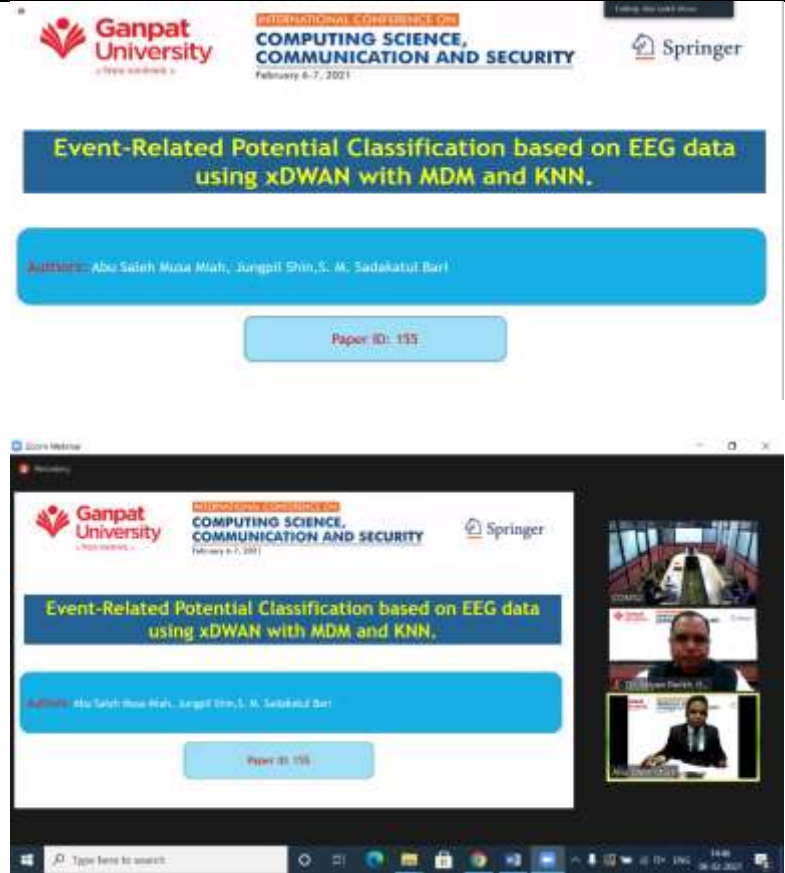
Dr. Priyanka Sharma
Babao Shahi University, India

Paper Presentations - Track-1: Artificial Intelligence and Machine Learning

Title of Paper	Glimpse of the presentation
<p>Paper Title: Sentiment Analysis of Bangla Language Using Deep Learning Approaches,</p> <p>Authors: Muntasir Hoq, Promila Haque, Mohammed Nazim Uddin, East Delta University, Bangladesh</p>	
<p>Paper Title: A Natural Language processing approach to mine online reviews using topic modelling.</p> <p>Authors: Usman Usmani, Nazneen Samiha Haron, Jafreezal Jaafar, Universiti Teknologi Petronas, Malaysia</p>	
<p>Paper Title: An Implementation and Combining of Hybrid and Content Based and Collaborative filtering algorithms for the Higher Performance of Recommended Systems,</p> <p>Authors: Geluvaraj B., Dr.Meenakshi Sundaram, Garden City University, India</p>	

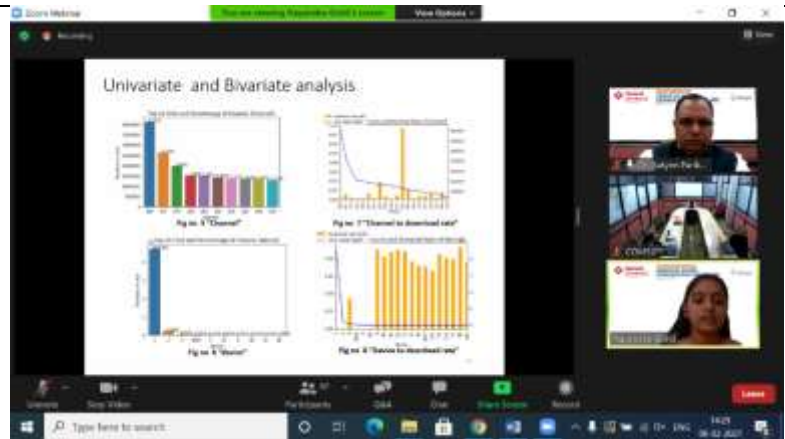
Paper Title: Event-Related Potential Classification based on EEG data using xDWAN with MDM and KNN

Authors: Abu Saleh Musa Miah, Jungpil Shin, Mumtahina Afroz Mouly, Chandrika Debnath, S. M. Sadakatul Bari The University of Aizu, Fukushima, Japan, Bangladesh Army University of Science and Technology, Bangladesh



Paper Title: Click Ad Fraud Detection Using XGBoost Gradient Boosting Algorithm.



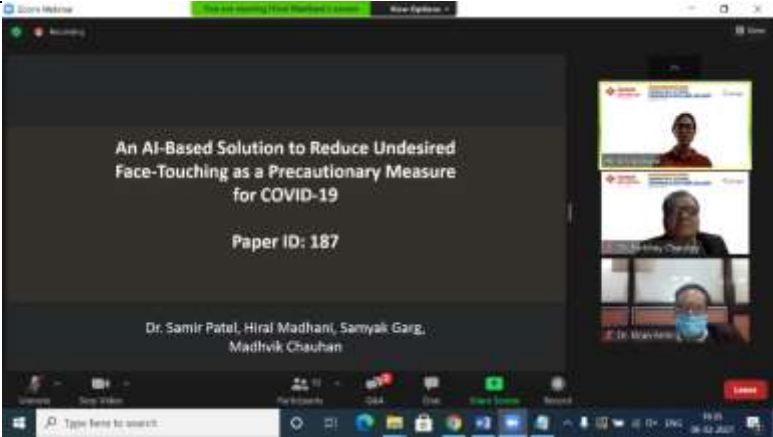
Authors: Nayanaba Pravinsinh Gohil, Arvind D. Meniya Shantilal Shah Engineering College, Gujarat Technological University, India



Paper Title: Oil Spill Discrimination Of Sar Satellite Images Using Deep Learning Based Semantic Segmentation.

Authors: V.Sudha, Dr. Anna Saro Vijendran Sri Ramakrishna College, Coimbatore, TamilNadu,



<p>India</p>	
<p>Paper Title: A Multi Class Classification for Detection of IoT Botnet Malware. Authors: Naga Venkata Hrushikesh Chunduri, Gireesh Kumar T, Sai Charan P.V Amrita School of Engineering, Coimbatore, Indian Institute of Technology, Kanpur, India</p>	
<p>Paper Title: DDoS Attack Detection Using Artificial Neural Network Authors: Abhinav Shah, Dr. Digvijaysinh Rathod, Dharmesh Dave National Forensic Sciences University, India</p>	
<p>Paper Title: Proposed Mechanism for COVID-19 Prevention: An AI-Based Approach to Limit Undesired Face-Touching. Authors: Samir Patel, Hiral Madhani, Samyak Garg, Madhvik Chauhan Pandit Deendayal Petroleum University, India</p>	

Session Chairs- Track-2: Networking and Communication

<div style="text-align: center;">  <p>COMS2 2021 INTERNATIONAL CONFERENCE ON COMPUTING SCIENCE, COMMUNICATION AND SECURITY February 6-7, 2021</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Technical Session Chair</p> <p>Dr. Nikhil J. Kothari Chemsinh Desai University Nadiad, Gujarat, India</p> </div>	<div style="text-align: center;">  <p>COMS2 2021 INTERNATIONAL CONFERENCE ON COMPUTING SCIENCE, COMMUNICATION AND SECURITY February 6-7, 2021</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Technical Session Chair</p> <p>Dr. J. M. Rathod BVM Engineering College Vethan Vajrangar, Gujarat, India</p> </div>
<div style="text-align: center;">  <p>COMS2 2021 INTERNATIONAL CONFERENCE ON COMPUTING SCIENCE, COMMUNICATION AND SECURITY February 6-7, 2021</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Technical Session Chair</p> <p>Dr. Vishwjit Thakkar GITL, Sardar Technological University Tasra, India</p> </div>	<div style="text-align: center;">  <p>COMS2 2021 INTERNATIONAL CONFERENCE ON COMPUTING SCIENCE, COMMUNICATION AND SECURITY February 6-7, 2021</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Technical Session Chair</p> <p>Dr. Rakhee University of the West Indies Maz, India.</p> </div>
<div style="text-align: center;">  <p>COMS2 2021 INTERNATIONAL CONFERENCE ON COMPUTING SCIENCE, COMMUNICATION AND SECURITY February 6-7, 2021</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Technical Session Chair</p> <p>Dr. Vrushank Shah India University Ahmedabad, India</p> </div>	

Paper Presentations - Track-2: Networking and Communication

Title of Paper	Glimpse of the paper presentation
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Paper Title: Data Balancing for Credit Card Fraud Detection using Complementary Neural Networks and SMOTE Algorithm.
 Authors: Kalpdrum Passi, Vrushal Shah, Laurentian University, Canada



Paper Title: Bit Error Rate Analysis of Optical Switch Buffer in presence of Dispersion and Optical Amplifier Noise
 Authors: Utkarsh Shukla, Niraj Singhal, Pronaya Bhattacharya, and Rajiv Srivastava. Shobhit Institute of Engineering & Technology, INDIA, Nirma University, INDIA, Indian Institute of Technology, Jodhpur, Rajasthan, INDIA




Paper Title: Experimenting with Scalability of Software Defined Networks using Pyretic and Frenetic
 Authors: Manasa Kulkarni, Bhargavi Goswami, Joy Paulose, CHRIST, Bangalore, India, Queensland University of Technology, Australia



Paper Title: RC-Security Mechanism to Prevent Attacks on IoT Smart Switch
 Authors: Jigar Makhija, Dr. Anantha Narayan V., Amrita Vishwa Vidyapeetham, India



<p>Paper Title: Identifying the Impacts of Node Mobility on Network Layer Based Active and Passive Attacks in Mobile Ad Hoc Networks: A Simulation Perspective</p> <p>Authors: Uthumansa Ahamed, Shantha Fernando Rajarata University of Sri Lanka, University of Moratuwa, Sri Lanka</p>	

In a nutshell, the conference was quite fruitful which ignited a spirit of research. It is indeed a remarkable, memorable and knowledgeable conference.

Congratulations to the winners of Best Paper Award

Paper Id: 179, Title "A Multi Class Classification for Detection of IoT Botnet Malware".

Paper Id: 187 Title "Proposed Mechanism for COVID-19 Prevention: An AI-Based Approach to Limit Undesired Face-Touching" .

Paper Id: 90, Title "Data Balancing for Credit Card Fraud Detection using Complementary Neural Networks and SMOTE Algorithm".

Paper Id: 109, "Bit Error Rate Analysis of Optical Switch Buffer in presence of Dispersion and Optical Amplifier Noise".

The conference was coordinated by Dr. Satyen Parikh, General Chair of the Conference, Dr. Kiran Amin, Organising Chair of Conference and Dr. Nirbhay Chaubey Overall Organizing Chair of the Conference- COMS2.