

AIMV
2021

1st IEEE International Conference on Artificial Intelligence & Machine Vision

24th - 26th September, 2021
PDEU, Gandhinagar, Gujarat



PDEU PANDIT
DEENDAYAL
ENERGY
UNIVERSITY
Formerly Pandit Deendayal Petroleum University (PDPU)

UGC RECOGNIZED

 **IEEE**
IEEE GUJARAT SECTION



AIMV 2021

About Us

1st International Conference on Artificial Intelligence and Machine Vision is being organized by the Department of Computer Science and Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, Gujarat, India from September 24-26, 2021. The conference is proposed with a basic theme towards 'Artificial Intelligence and Machine Vision'. AIMV 2021 will provide researchers to interact and collaborate under one umbrella for recent developments, applications and research outcomes on Computer Vision, Machine Intelligence, Human Computer Interaction and Data Science. The conference has Plenary Talks and Expert Panel discussions as well.

About Pandit Deendayal Energy University



PDEU (Pandit Deendayal Energy University) is the associator and a sponsor for this conference AIMV-21.

Energy and energy infrastructure are critical to any economy for the development and sustainability. India has recognised this fact and has embarked upon a comprehensive strategy to address the concerns of energy security of India. The need for a resource center was anticipated to keep pace with the fast developing and competitive energy industry, to plan for the future and to continuously build requisite intellectual capital and human resource skills.

Pandit Deendayal Energy University has been promoted by Government, Industry and Energy & Petrochemical Department to create a world class University in energy education and research with special focus on the oil and gas sector. The University addresses the need for trained and specialized human resource in the domains of engineering, management and humanities.

It intends to expand the opportunities for students and professionals to develop an intellectual knowledge base with leadership skills to compete in the global arena. This objective is being addressed through a number of specialized and well-planned undergraduate and post-graduate education programmes and intensive research initiatives.

About IEEE Gujarat Section



IEEE Gujarat Section is the associator and a sponsor for this conference AIMV-21.

IEEE Gujarat Section (registered u/s 80G) comes under Asia-Pacific Region, the Region 10 of IEEE. The Gujarat Section, a sub section of Bombay Section, was upgraded to full fledged section on 15th August 1990. In 2004 Gujarat Section was adjudged the Outstanding Small Section of Region 10.

The section has emphasis on quality programmes and such programmes are regular feature for professional development of its members. The section's participative philosophy allows students to make programmes as per their own need. Section encourages students and has instituted awards for student members.

About GUJCOST



GUJCOST is a sponsor for this conference, AIMV-21.

The Gujarat Council on Science and Technology (GUJCOST) was established in September, 1986, to play a catalytic role in promoting the use of Science and Technology in the development process of the State. The S&T Council was constituted with a view to develop technologies appropriate to and in harmony with present conditions. The Council has been catalyzing interaction between developers and users of technologies, by bringing on a common platform to training Scientists and Engineers on the one hand and policy makers as well as administrators on the other.

Accordingly, the State Council is identifying the areas in which Science and Technology can be applied for development activities and achieve the goals of the State, with a particular emphasis to eliminate the prevailing backwardness, rural unemployment and poverty. It was also felt necessary to establish effective Communication and other links between, and Co-ordinate the activities of centres of Scientific and Technological Research, Government agencies and industries in order to promote the application of Science and Technology in the State.

About DST, Gujarat



Department of Science & Technology
Government of Gujarat

DST, Gujarat is a sponsor for this conference, AIMV-21.

Department of Science & Technology (DST) has been constituted vide General Administration Department G.R. No. DST/2002/398/ITD dated 21st June, 2002 and it has been operational since 01.04.2003. This department mainly looks after the growth and development of new & emerging technology areas and is responsible for formulation and implementation of key policies in this sector in the State of Gujarat. As of now DST has been looking after the following areas of technology in the State.

-



About CSI - Ahmedabad Chapter

CSI - Ahmedabad Chapter is a sponsor for this conference, AIMV-21.

The Ahmedabad Chapter of CSI started functioning during 1969 and today it has expanded its wings for flying in the world of research and innovation by organizing seminars, conferences, public talks on different subjects, student awareness programs and many more, and as a result, since the last five years, CSI Ahmedabad Chapter receives "Best Chapter Award" under region III.

The chapter has constantly tries to climb the ladder of success by organizing various technical and edu-social activities since its commencement. Today, the Ahmedabad Chapter has 20 student Branches with 854 student members and more than 8000 members, including India's most famous IT industry leaders, brilliant scientists and dedicated academicians. The journey of around 35 years old chapter has lot many historical remembrance and without the efforts of senior members of Ahmedabad Chapter these achievements may not be possible.

About PDEU IIC

PDEU IIC is a sponsor for this conference, AIMV-21.

PDEU Innovation & Incubation Centre (PDEU IIC) is an incubator established by Pandit Deendayal Energy University (PDEU). PDPU IIC is registered u/s 8 of Companies Act, 2013. It is recognized as Nodal Institute by Govt. of Gujarat and registered as Startup India Incubator under DIPP (Department of Industrial Policy and Promotion, Govt. of India). Also, PDEU IIC is supported by Student Start-up and Innovation Policy(SSIP) by Education Dept. of Govt. of Gujarat, Startup Innovation Policy by Industries Commissionerate(IC) and Department of Science and Technology(DST) by Government of Gujarat.



PDEU IIC is born with the aim of converting the brimming potential of budding Engineers, Management Students and Technocrats into innovation-driven business ventures leading to technical renaissance. We are incubating 50+ Start-ups from the different domains such as waste management, energy and environment, IT & IOT, Fintech, Cleantech, etc.

About IEEE MTT-S



IEEE MTT-S is a sponsor for this conference, AIMV-21.

The IEEE Microwave Theory and Techniques Society (MTT-S) is a transnational society with more than 10,500 members and 190 chapters worldwide. Our society promotes the advancement of microwave theory and its applications, including RF, microwave, millimeter-wave, and terahertz technologies.

For more than 60 years, the MTT-S has worked to advance the professional standing of its members and enhance the quality of life for all people through the development and application of microwave technology. As we enter into an exciting future, our mission is to continue to understand and influence microwave technology and to provide a forum for all microwave engineers. The MTT-S will continue to be the global focus for the promotion of the RF and microwave engineering profession, by advancing and distributing knowledge and supporting professional development.

This is an all-volunteer society, driven to excellence by its leadership and with the active participation of all its world-wide members. The activities sponsored by the MTT-S include a broad spectrum of conferences, workshops, tutorials, technical committees, chapter meetings, publications and professional education programs. Our principal publications and conferences are world class, peer-reviewed and recognized as top of the class. Our professional venues provide a great opportunity for networking with experienced innovators, experts, and practitioners. Our volunteer programs provide for the development of critical, non-technical skills that enable you to be more effective professionally.

About IEEE Student Branch, PDEU



IEEE Student Branch PDEU is a sponsor for this conference, AIMV-21.

It was established in 2012.

It works towards supporting advancing technology at the University.

It consists of 20-30 members.

TRACKS

TRACK 1: Machine Intelligence

Machine Learning
Computing
Deep Learning and Applications
Natural Language Processing
Decision Support Systems
Automated Problem Solving
Knowledge Discovery
Knowledge Acquisition
Intelligent Agents
Intelligent Information Systems
Intelligent Web-Based Business
AI and Evolutionary Algorithms
Neural Networks and Applications
Integration of AI with other technologies
Reinforcement Learning
Generative Models
Computational Intelligence
Distributed AI Algorithms and Techniques
Constraint-based reasoning and constraint programming

TRACK 2: Computer Vision

Image Processing
Signal Processing
Document Analysis
Radar Signal Processing
Audio/Speech Processing and Coding
Biometrics and Pattern Recognition
Cognitive and Biologically-Inspired Vision
Remote Sensing
Content-based Image retrieval
Face and Gesture Recognition
Medical Image Processing
Image and Video Retrieval
Motion and Tracking Stereo and Structure from Motion
Object Detection, Recognition and Categorization
Image Restoration
Statistic Learning and Pattern Recognition
Speech, Audio and Music Processing

TRACK 3: Human Computer Interaction

IOT
Robotics

TRACK 4: Data Science

Analytical Techniques
Mathematical & Statistical Techniques
Computational Learning Theory
Algorithmic Complexity in Data Science

TRACK 5: Cognitive Science

Cognitive Psychology
Linguistics
Neural Science
Brain and Cognitive Processes
Neuropsychology, Cognition and Language
Attention, Perception, Consciousness and Pattern Recognition
Computational Intelligence
Cognitive Engineering and Human Factors
Automation and Human Performance
Neuroergonomics
Social Cognition and Emotion
Applied Cognition and Health Psychology
Environmental Cognition and Health
Cognition, Culture, Aging, Health and Intervention
Neurocognitive Disorders



SPECIAL SESSIONS

1. Intelligent Information Processing

Intelligent Information Processing has become increasingly popular over the last decade. Intelligent Information Processing indicates the processing of raw data available in different format to generate intelligence with in a computer to behave, think and do reasoning like a human being. The implementation of these kinds of systems is possible due to the advancements done in the area of data science, machine learning, and deep learning. Hence, different sectors nowadays are adopting this practice that result in substantial growth of their capital. As a result, there is a growing demand for research in Intelligent Information Processing to meet the challenges related to the design, implementation and management of such systems.

Session Chair(s):



[Dr. Premanand Ghadekar \(VIT, Pune\)](#)

[Dr. Debabrata Swain \(PDEU, Gandhinagar\)](#)

Topics of Interest for this session are as follows:

Evolutionary Computing Models

Swarm Intelligence Models

Machine Learning and Deep Learning Models

Nature Inspired Computing

Agent-Based Systems

Data Science

Predictive Analysis

Computational Intelligence Methodologies

Bio-Inspired Computing Design, Development and Applications

Bio-Inspired Optimization and Engineering

Bio-Inspired models for Healthcare Applications

Cloud and Grid Computing

Big Data

Knowledge and Language Processing

Image Processing and Computer Vision

Parallel Processing

High-Performance Computing

Information Mining

2. Intelligent Modelling using Deep Learning

Deep learning, a subset of the broad field of AI, refers to the engineering of developing intelligent machines that can learn, perform and achieve goals as humans do. Over the last few years, deep learning models have been illustrated to outpace conventional machine learning techniques in diverse fields. The technology enables computational models of multiple processing layers to learn and represent data with manifold levels of abstraction, imitating how the human brain senses and understands multimodal information.

Session Chair(s):



[Dr. Raju G. \(Christ University, Bengaluru\)](#)

[Dr. Debabrata Swain \(PDEU, Gandhinagar\)](#)

Topics of Interest for this session are as follows:

- Emotion analysis from Image, Video and Text
- Document Analysis
- Ear Biometrics
- Human Gait analysis for Medical and Biometric applications
- Multispectral Image Processing
- Image Segmentation
- Video Summarization and Image Captioning
- Multimodal Image Analysis
- Computer Vision in Cyber Security
- Quantum Image Processing



COMMITTEE

Chief Patron

Prof. (Dr.) S Sunder Manoharan (Director General, PDEU)

Patron

Prof. (Dr.) Sunil Khanna (Director, SOT, PDEU)

Advisory Board

Dr. Akhtar Kalam (College of Engineering and Science, Victoria University, Melbourne)

Dr. Xiao-Zhi Gao (University of Eastern Finland)

Dr. Shuihua Wang (University of Leicester, UK)

Dr. Deepak Puthal (Newcastle University, UK)

Prof. Soujanya Poria (SUTD, Singapore)

Dr. Ajita Rattani (Wichita State University, United States)

Mirco Musolesi (University College London, UK)

Prof. P. Sanjeev Kumar (Aalborg University, Esbjerg, Denmark)

Prof. Bui Thanh Hung (Director DAAI Lab, Thu Dau Mot University, Vietnam)

Dr. Ahmed A. Elngar (Beni-Suef University, Egypt)

Dr. Hussain Falih Mahdi (National University of Malaysia)

Prof. Manik Lal Das (Chair IEEE GS and Professor, DAIICT)

Mr. Haresh Bhatt (Scientist, ISRO, Ahmedabad)

Dr. Rajeev Jyoti (Dy. Director, SAC, ISRO, Ahmedabad)

Dr. Milind Mahajan (GD, ASG)

Prof. B. Majhi (Director, IIIDM Kanchipuram)

Prof. Sarat Kumar Patra (Director, IIIT Vadodara)

Dr. Sunil Shah (Chairman, GIS, Ahmedabad)

Prof. (Dr.) Vivek Deshpande (Director, VIIT Pune)

Prof. (Dr.) Nilesh Modi (Director, BAOU, Ahmedabad)

Dr. Niranjan Ray (KIIT University)

Dr. RK Pateria (Professor, MANIT Bhopal)

Mr. Vedprakash Singh (Data Scientist, IMD Bhopal)

Dr. Bhushan Garware (Senior Data Scientist, Persistent Systems)

Dr. Srinivas Chetri

Mr. Ajinkya Kolhe (Google Inc., India)

Dr. Prasenjit Majumdar (DAIICT, Gandhinagar)

General Chair

Dr. Samir Patel (HoD, CSE Dept., PDEU)
Dr. Santosh Kumar Bharti (CSE Dept., PDEU)

Local Advisory Chair(s)

Dr. Shakti Mishra (PDEU, Gandhinagar)
Dr. Nishant Doshi (PDEU, Gandhinagar)
Dr. Payal Chaudhary (PDEU, Gandhinagar)
Dr. Paawan Sharma (PDEU, Gandhinagar)
Dr. Rutvij Jhaveri (PDEU, Gandhinagar)
Dr. Rudresh Dwivedi (PDEU, Gandhinagar)
Dr. Rajeev Gupta (PDEU, Gandhinagar)
Dr. Kaushal Shah (PDEU, Gandhinagar)
Dr. Kaushal Shah (PDEU, Gandhinagar)
Dr. Debabrata Swain (PDEU, Gandhinagar)
Dr. Ganga Prasad Pandey (PDEU, Gandhinagar)
Dr. Mohindra Roy (PDEU, Gandhinagar)
Dr. Hardik Patel (PDEU, Gandhinagar)
Dr. Pallabi Saikia (PDEU, Gandhinagar)
Dr. Jigar Kumar Shah (PDEU, Gandhinagar)
Ms. Nayantara Kotoky (PDEU, Gandhinagar)
Mr. Vipin Sukla (PDEU, Gandhinagar)
Dr. Neeta Sinha (PDEU, Gandhinagar)
Dr. Supriya Pal (PDEU, Gandhinagar)
Dr. Raju Ranjan (PDEU, Gandhinagar)
Dr. Purvi Koringa (PDEU, Gandhinagar)

Technical Program Chair(s)

Prof. Mehul Raval (Professor, Ahmedabad University)
Prof. Kiran Amin (Vice Chairman, IEEE Gujarat Section)
Dr. Korra Sathya Babu (National Institute of Technology, Rourkela)

Technical Program Committee

Prof. Mehul Raval (Professor, Ahmedabad University)
Dr. Pankaj Kumar (DAIICT)
Dr. Sunil Gautam (IAR, Gandhinagar)
Dr. Sambit Mishra (SRM - AP)
Dr. Devendra Joshi (Chhattisgarh Swami Vivekanand Technical University, Bilai)

Technical Program Committee

Dr. Manish Kumar Chaturvedi (IIIT RAM, Ahmedabad)
Dr. Vibha Patel (VGEC Chandkheda, Ahmedabad)
Dr. Sanjay Kumar Panda (NIT, Warangal)
Dr. Deepak Ranjan Nayak (MNIT, Jaipur)
Dr. Rahul Raman (IIITDM, Kanchipuram)
Dr. Saroj Panigrahy (VIT-AP)
Dr. K. K. Patel (Charusat University, Gujarat)
Dr. Lov Kumar (BITS Hyderabad)
Dr. Mukesh Kumar (NIT Patna)
Dr. Saurav Kanti Addya (NIT Suratkal)
Dr. Jitendra Kumar Rout (KIIT University)
Dr. Bunil Kumar Balabantaray (NIT Meghalaya)
Dr. Mangal Singh (Nirma University)
Dr. Satendra Yadav (NIT Meghalaya)
Dr. Nikunja Kar (SOA University)
Dr. Madhuri Bhavsar (Nirma University)
Dr. Priyanka Sharma (Nirma University)
Dr. Swati Jain (Nirma University)
Dr. Pratik Shah (IIIT Vadodara)
Dr. Uday Pratap Rao (SVNIT Surat)
Dr. Keyur Parmar (SVNIT Surat)
Dr. Reema Patel (IIIT Surat)
Dr. Nirali Nanavati (SCET, Surat)
Dr. Narendra Chauhan (ADIT VV Nagar)
Dr. Maulika Patel (GCET VV Nagar)
Dr. Mehul Barot (LDRP, Gandhinagar)
Mr. Harsh Mehta (Marvadi University, Rajkot)
Dr. Arti Jain (Jaypee Institute of Information Technology, Noida, UP, India)

Publication Chair(s)

Dr. Bibhudutta Sahoo (NIT Rourkela)
Dr. Pratap Kumar Panigrahi (GIET University, Odisha)
Dr. Rajeev Gupta (PDEU, Gandhinagar)

Finance Chair

Dr. Shakti Mishra (PDEU, Gandhinagar)

Industry Liaison Chair

Mr. Niraj Shah (Arihant Satiate)

Publicity Committee Chair(s)

Dr. Anil Markana (PDEU, Gandhinagar)

Mr. Srikant Misra (GIET University, Odisha)

Publicity Committee

Dr. Vibha Patel (VGEC Chandkheda, Ahmedabad)

Dr. Sambit Kumar Mishra (SRM-AP)

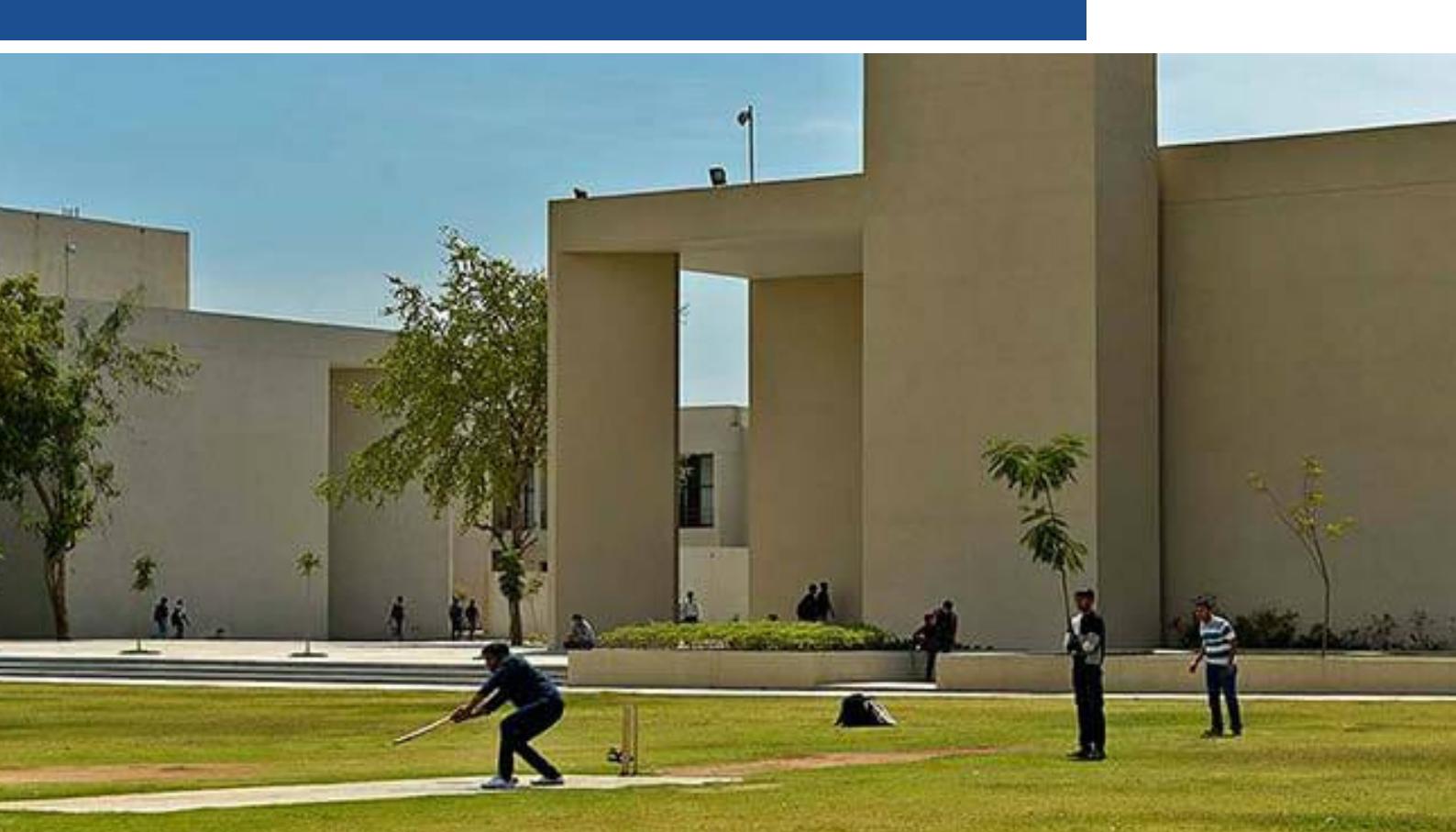
Dr. Zunnun Narmawala (Nirma University, Ahmedabad)

Special Session Chair(s)

Dr. Premanand Ghadekar (VIT, Pune)

Dr. Debabrata Swain (PDEU, Gandhinagar)

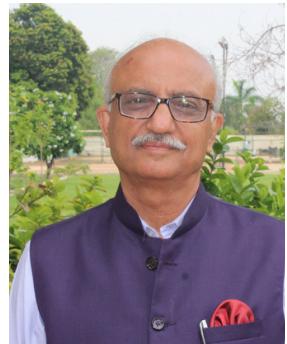
Dr. Raju G. (Christ University, Bengaluru)





Prof. (Dr.) S Sunder Manoharan

Chief Patron - AIMV '21
Director General, PDEU



Prof. (Dr.) Sunil Khanna

Patron - AIMV '21
Director, SOT, PDEU



Dr. Samir Patel
General Chair - AIMV '21
HoD, CSE Dept., PDEU



Dr. Santosh Kumar Bharti
General Chair - AIMV '21
CSE Dept., PDEU



Dr. Shakti Mishra
Finance Chair - AIMV '21
CSE Dept., PDEU



Dr. Rajeev Gupta
Publication Chair - AIMV '21
CSE Dept., PDEU

Student Committee

Web Heads

Vinay Khilwani - CE '18
Shreedhar Bhatt - CE '18
Bhuvan Gandhi - CE '18

Graphic Designers

Shreya Patel - CE '18
Jay Hemnani - CE '18
Anmol Singh - ICT '20

Front-End Developers

Vasu Gondaliya - CE '18
Priyank Shah - CE '18
Poojan Agrawal - ICT '19
Parn Desai - CE '18
Shreya Patel - CE '18

Publicity Team

Harsh Mehta
(Ph. D. - Computer Engineering)
Hansal Shah - CE '19
Badal Parmar - CE '19
Khushi Katariya - CE '19
Aditya Gandhi - CE '19

Vinay Khilwani
Shreedhar Bhatt
Shreya Patel
Sanyam Raina
Astha Modi
Jay Hemnani
Vasu Gondaliya
Badal Parmar
Khushi Katariya
Hansal Shah
Aditya Gandhi
Shrey Sanghvi

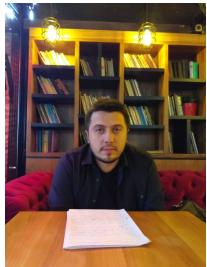
Lagani Patel
Divij shah
Smit Vekaria
Rushabh Shah
Shram Kadia
Vyom Shah
Anmol singh
Hetanshi Dabhi
Kalgi Shah
Vaidehi Shah
Parn Desai

Volunteers

Important Dates

Submission Deadline : 31st July, 2021
Acceptance Notification : 5th August, 2021
Early-Bird Registrations : 15th August, 2021
Camera-Ready Submission : 15th August, 2021
Final Version Submission : 15th August, 2021

KEYNOTE SPEAKERS



Dr. Korhan Cengiz

Korhan Cengiz, PhD, SMIEEE was born in Edirne, Turkey, in 1986. He received the BS degrees in Electronics and Communication Engineering from Kocaeli University, Turkey and Business Administration from Anadolu University, Turkey in 2008 and 2009 respectively. He took his MS degree in Electronics and Communication Engineering from Namik Kemal University, Turkey in 2011, and the PhD degree in Electronics Engineering from Kadir Has University, Turkey in 2016. Since 2018, he has been an Assistant Professor with the Electrical-Electronics Engineering Department, Trakya University, Turkey. He is the author of over 40 articles including IEEE Internet of Things Journal, IEEE Access, Expert Systems with Applications and Knowledge Based Systems, 3 book chapters, 2 international patents and 1 book in Turkish. His research interests include wireless sensor networks, wireless communications, statistical signal processing, indoor positioning systems, power electronics and 5G. He is Associate Editor of Interdisciplinary Sciences: Computational Life Sciences, Springer, Handling Editor of Microprocessors and Microsystems, Elsevier, Associate Editor of IET Electronics Letters, IET Networks and Editor of AEÜ - International Journal of Electronics and Communications, Elsevier. He has Guest Editorial Positions in IEEE Internet of Things Magazine and CMC-Computers, Materials & Continua. He serves several reviewer positions for IEEE Internet of Things Journal, IEEE Sensors Journal and IEEE Access. He serves several book editorial positions in Springer, Elsevier, Wiley and CRC. He presented 10+ keynote talks in reputed IEEE and Springer Conferences about WSNs, IoT and 5G. He is Senior Member, IEEE since August 2020. Dr. Cengiz's awards and honors include the Tubitak Priority Areas Ph.D. Scholarship, the Kadir Has University Ph.D. Student Scholarship, best presentation award in ICAT 2016 Conference and best paper award in ICAT 2018 Conference.

Dr. Avnish Kshatriya has 20+ years of industry experience primarily in the domain of Strategy & Transformation. He is currently the Global Head & Principal Consultant of Transformation & Advisory Office (TAO) within the CIO/CDO Function of Wipro Limited. His charter is focused on designing & operationalizing strategic initiatives aimed at the digital transformation of the function along with the Wipro corporate functions that it services. Dr. Avnish exhibits a spirit for life-long learning & innovation across domains with the purpose of problem-solving & value-creation. It has enabled him to play a wide variety of specialist & leadership roles in a spectrum of technologies, domains & geographies. He has driven initiatives related to most enterprise functions and has a track record of instituting practices to incubate new-age technologies, and helping customers actualize potential in their Digital & Analytics journey. Beyond his profession, Dr. Avnish has keen interest in entrepreneurship, philosophy, academics & mentoring. He has a bachelor's degree from the prestigious Delhi College of Engineering, an executive MBA from IIM-Bangalore, and a Ph.D. from Indian Institute of Science (IISc). Avnish has been a volunteer counselor with the Mitr Foundation at Wipro, and was conferred the Best People Manager (BPM) Award by Mr. Azim Premji in 2014.



Dr. Avnish Kshatriya

PLENARY SESSION SPEAKERS



Dr. Snehanshu Saha

Snehanshu Saha holds Master's Degree in Mathematical and Computational Sciences at Clemson University, USA and Ph.D. from the Department of Applied Mathematics at the University of Texas at Arlington in 2008. He was the recipient of the prestigious Dean's Fellowship during PhD and Summa Cum Laude for being in the top of the class. After working briefly at his Alma matter, Snehanshu moved to the University of Texas El Paso as a regular full time faculty in the Department of Mathematical Sciences, University of Texas El Paso. Currently, He is a Professor of Computer Science and Engineering at PES University since 2011 and heads the Center for AstroInformatis,

Modeling and Simulation. He is also a visiting Professor at the department of Statistics, University of Georgia, USA and BTS Pilani, India. He has published 90 peer-reviewed articles in top-tier International journals and conferences and authored three text books on Differential Equations, Machine Learning and System Sciences respectively. Dr. Saha is an IEEE Senior member, ACM Senior Member, Vice Chair-International Astrostatistics Association and Chair, IEEE Computer Society Bangalore Chapter and Fellow of IETE. He's Editor of the Journal of Scientometric Research. Dr Saha is the recipient of PEACE Award for his foundational contributions in Machine Learning and AstroInformatics. Dr. Saha's current and future research interests lie in Data Science, Astronomy and theory of Machine Learning.

Dr. Jagdish Chand Bansal is an Associate Professor at South Asian University New Delhi and Visiting Faculty at Maths and Computer Science, Liverpool Hope University UK. Dr. Bansal has obtained his Ph.D. in Mathematics from IIT Roorkee. Before joining SAU New Delhi he has worked as an Assistant Professor at ABV-Indian Institute of Information Technology and Management Gwalior and BITS Pilani. His Primary area of interest is Swarm Intelligence and Nature Inspired Optimization Techniques.

Recently, he proposed a fission-fusion social structure based optimization algorithm, Spider Monkey Optimization (SMO), which is being applied to various problems from engineering domain. He has published more than 70 research papers in various international journals/conferences. He has worked with Indian Air Force and Liverpool Hope University UK for various research projects. He is the series editor of the book series Algorithms for Intelligent Systems (AIS) and Studies in Autonomic, Data-driven and Industrial Computing (SADIC) published by Springer. He has also received Gold Medal at UG and PG level. He is the editor in chief of International Journal of Swarm Intelligence (IJSI) published by Inderscience. He is also the Associate Editor of IEEE ACESSS published by IEEE and ARRAY published by Elsevier. He is the steering committee member and the general chair of the annual conference series SocProS. He is the general secretary of Soft Computing Research Society (SCRS).



Dr. Jagdish Chand Bansal

PLENARY SESSION SPEAKERS



Dr. Jennifer Corbett

Dr. Jennifer Corbett is a Lecturer in Psychology at Brunel University, London. She did her Ph.D. in Cognitive Science from "The University of British Columbia". Her research interests include Visual perception and cognition: Perceptual averaging/ensemble encoding, Gestalt grouping, Visual stability, Computational vision, Human versus machine vision, Visual attention, working memory, decision making and executive functions, Spatiotemporal integration and Segmentation and grouping. She has an expertise in Behavioral/psychophysical methodology, EEG, eye-tracking, and machine-learning/computational modeling. She works as a Principal Investigator at Visual Perception and Attention Lab. Research conducted in Visual Perception and Attention Lab (VPAL) focuses on the smart visual and attentional strategies that our limited-capacity human visual system uses to be able to accomplish these remarkable feats.

Dr. Bhushan Garware works as a senior Data Scientist at Persistent Systems with special interest in Digital Healthcare. He leads Deep Vision Group for Medical Imaging. He concluded his Ph.D. degree in fingerprint biometrics with Gold Medal for best doctoral thesis and three patents. He loves to conduct workshops and tutorial sessions on Machine Learning in industries and academia. His current work is based on applications of Deep Learning for CT, MRI, X-Ray and Microscopic images. His recent area of research interests are Explainable AI and Assistive Intelligence.



Dr. Bhushan Garware



Dr. Ketan Kotecha

Dr. Ketan Kotecha is a recipient of the two SPARC projects worth INR 166 lacs from MHRD govt of India in AI in collaboration with Arizona State University, USA and University of Queensland Australia, and also recipient of numerous prestigious awards like Erasmus+ faculty mobility grant to Poland, DUO-India professors fellowship for research in Responsible AI in collaboration with Brunel University, UK, LEAP grant at Cambridge University UK, UKIERI grant with Aston University UK, and a grant from Royal Academy of Engineering, the UK under Newton Bhabha Fund. Currently, he is also academic editor of Peerj Computer Science journal and also Associate editor of IEEE access journal.

Dr. Kotecha has published 3 patents and also delivered key note speeches at various national and international forums including at Machine Intelligence Lab, USA, at IIT Bombay under World bank project, at International Indian Science Festival organized by Department of Science and Technology, Govt of India and many more. Dr. Kotecha has expertise and experience of cutting edge research and projects in AI and Deep Learning for last 25 + years. He has published 100+ widely in a number of excellent peer-reviewed journals on various topics ranging from cutting edge AI, education policies, teaching learning practices and AI for all.

SUBMISSION GUIDELINES

- All papers must be original and not simultaneously submitted to another journal or conference.
- Original papers based on theoretical or experimental works related to the tracks of the conference are solicited for presentation at the conference. The paper should begin with the title, short abstract, and a list of keywords. Simultaneous submissions (papers already submitted to other conferences/journals) are not allowed.
- All papers must follow double-column formatting.
- Please **do not** submit plagiarized papers.
- The total length of the paper must not exceed six A4 size pages including bibliography and appendices. The paper must be in PDF format.

REGISTRATION FEES

Student Registration (for Virtual Participation)	IEEE/CSI Member	₹4000
	Others	₹5000
Student Registration (for Offline Participation)	IEEE/CSI Member	₹5000
	Others	₹6000
Faculty Registration	IEEE/CSI Member	₹7500
	Others	₹9000
Industry Member	IEEE/CSI Member	₹9000
	Others	₹11000
International Registration	IEEE/CSI Member	\$300
	Others	\$350
Attendee	-	₹1000



Contact Us

Pandit Deendayal Energy University,
Knowledge Corridor, Raisan Village, Gandhinagar,
Gujarat, India - 382007

Email: aimvpdeu@gmail.com

Phone:

Dr. Santosh Bharti: +91-8917595990

Dr. Samir Patel: +91-9427401616