



# International Conference on Data Management, Analytics and Innovation

Narhe, Pune | 24-26 February 2017

## REPORT



To know more on this conference visit : [www.icdmai.com](http://www.icdmai.com)

**Report Prepared By:**

Dr. Neha Sharma, General Chair, ICDMAI 2017

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### **ACKNOWLEDGEMENT**

Zeal Institute of Business Administration, Computer Application and Research wishes to thank Zeal Education Society for their support to conduct the conference. The institute is honored to host this highly regarded event which is technically supported by the **IEEE Pune Section** and **IEEE Computer Society**. We acknowledge the support extended by our Technology Partner, Creosis, Digital Partner Reliance Jio and other partners like Eternus Solutions, Union Bank of India, Capital Novus, Prabha Info Solutions and Gist.

ICDMAI 2017 couldn't have been possible without consistent, concerted and focused efforts of Founder Director (Hon. Shri S. M. Katkar), Executive Director (Prof. Jayesh Katkar), General Chairs (Padmabhushan Dr. Vijay Bhatkar, Dr. P. K. Sinha and Dr. Neha Sharma), Advisory Body Members, Technical Programme Committee, Reviewers, Media, Authors, Students and Team ZIBACAR-Super-28, who have been instrumental in making this conference possible.



Dr. Neha Sharma  
General Chair, ICDMAI 2017

## 1. EVENT DETAILS

<b>Event Type</b>	: Research Consortium
<b>Description</b>	: International Conference
<b>Event Name</b>	: 1 <sup>st</sup> International Conference on Data Management, Analytics and Innovation (ICDMAI 2017)
<b>Venue</b>	: Zeal Education Society's, ZIBACAR, Pune
<b>Date &amp;Duration</b>	: 24 to 26 Feb 2017, 10:00am - 5:00pm
<b>Technical Support</b>	: IEEE Pune Section and IEEE Computer Society

## 2. CONCEPTION OF THE PROGRAMME

The recent developments at global level in the area of Engineering, Computer Application and Management in the past few decades has influenced business to a large extent and intensified the competition. This has led to exponential increase in the number of people using latest technologies and also their interest in research and development activities. To prepare ourselves for this global competition, **First International Conference on Data Management, Analytics and Innovation (ICDMAI – 2017)** on **24-26 Feb 2017**, was conceptualized.

This three-day International Conference ICDMAI – 2017 will focus on theory and applications in the broad areas of Data Analytics in Engineering, Management and is designed to provide a common platform to the academicians, research scholars, industry experts and students to spread knowledge on scientific research in Interdisciplinary areas. This would generate discussion on practical challenges and suggest solutions, thus consolidating the recent innovation in data management and analytics.

## 3. OBJECTIVES OF ICDMAI-2017

1. To build a platform for effective interaction between the delegates/participants and the distinguished speakers on this important issue.
2. To bring the topics of interest related to “Data Management, Analytics and Innovation” for discussion and deliberations.
3. To encourage scholars to share their theory, research, and experience in emotional, social, and cognitive intelligences.
4. To provide a forum for exchange of information between scholars and practitioners on the relationships of intelligence to management and leadership

#### **4. CALL FOR PAPERS**

1st International Conference on Data Management, Analytics and Innovation (ICDMAI 2017) solicited papers in the areas of Engineering and Management. Original, unpublished research papers highlighting specific research domains from all viewpoints were invited from delegates throughout the globe. The selected and presented papers will be published in Conference Proceeding to be uploaded on **IEEE Xplore** Digital Library.



The conference focused on the following Tracks:

##### **a. Data Analytics in Electrical Engineering**

Renewable Energy Sources and Nuclear Energy, Distributed Power Generation, Power Electronics and Power Drives and Power System Deregulation, Nanotechnology, Optimization Techniques in Power Systems, Power Quality, Neural Network, HVDC/FACTS and its Applications, Energy Conversion and Storage Devices, Advanced Electrical Drives.

##### **b. Innovations in Electronics and Telecommunication Engineering**

Mobile and Optical Communication, Image Processing, Speech and Audio Signal Processing, VLSI/VHDL Systems, Memory Testing and FPGA Testing, RF/Broadband and Wireless Green Communication, OFDM and Multicarrier systems, Cognitive Radio, Antenna and Wave Propagation, Microwave Circuits & System and Applications, Wireless Sensor Networks, Embedded Systems, Bio Medical Electronic.

##### **c. Analytics in Computer Engineering and Application**

Artificial and Ambient Intelligence, Automated Software Engineering, Big Data and Analytics, Computer Networks and Security, Cloud and Fogg Computing, Calm Technology, Mobile Computing and Applications, Ubiquitous and Pervasive Applications.

##### **d. Data Management in Functional Areas**

International Business and Digital Marketing, SCM, TQM, Lean Management and Risk management, Corporate governance environmental sustainability, Financial Inclusion: Access to Credit and other Financial Services, Management in Emerging & Frontier Markets, Technology & Innovations management, Business Ethics and Corporate Social Responsibility (CSR), Management of human resources & firm performance.

*(Annexure A-Conference Brochure)*

#### **5. CONFERENCE MANAGEMENT COMMITTEE**

Conference Management Committee is the key for successful organization of any international level conference and ICDMAI-2017 conference was not exception to it. The primary role of the committee was to provide independent advice that will contribute to the quality enhancement of

the conference regulatory decision-making and lend credibility to the review process. They also also recommended/suggested changes in the successful execution of the conference. ICDMAI-2017 was fortunate enough to get some of the renowned professors and researchers on the board. The brief information about the General Chairs of the conference is as follows:-



When India was denied supercomputers by USA, somebody who responded to the challenge of the then PM of India, Mr. Rajiv Gandhi and indigenously developed the PARAM series of supercomputers in a record time of three years and made India become the world's third country, besides USA & Japan, to develop the supercomputing technology. He is none other than Padmashree and Padmabhushan Dr. Vijay Bhatkar and it is an honor and privilege to have Father of Indian Super Computers, a philosopher, a thought leader, computer architect, scientist interested in spiritual quests as a General Chair of the conference. **Dr. Vijay P. Bhatkar** is one of the most distinguished scientists and IT leaders of India today. He is also widely known for bringing ICT to the masses through a wide range of path-breaking initiatives, such as the celebrated GIST multilingual technology covering India's 22 official languages with 10 diverse scripts, MKCL's computer literacy programme that made a world mark by creating 10 million computer literates within a decade. In the 80's, he substantially contributed to the ushering of electronics revolution in India through the development of colour TV and colour broadcast in India. Sir is also credited with the creation of several national research labs and institutions, notably amongst them being C-DAC, ER&DC Trivandrum, IITM-K, Techno-Park, MKCL, IsquareIT, ETH Research Lab and Multiversity. Simultaneously, he has mentored several innovation-based start-ups. Sir is the recipient of many prestigious national and international awards and he has not stopped here. Recently he has accepted the responsibility of chancellor of one of the world's oldest university, Nalanda University.



**Dr. Pradeep K. Sinha** has assumed the charge of Vice Chancellor & Director, IIIT Naya Raipur on 10th December 2015. Before assuming this new responsibility, Dr. Sinha was the Senior Director (Corporate Strategy and R&D) at the Centre for Development of Advanced Computing (C-DAC). At C-DAC, he has led National Programs in areas of High Performance Computing, Grid Computing, and Health Informatics. Dr. Sinha is a researcher, scientist, inventor, and internationally acclaimed author of computer textbooks, with more than twenty-five years of professional experience. He has significantly contributed to the advancement of Science & Technology and Technical Education. His technical contributions include national projects, HPC systems and facilities, healthcare products and solutions, international patents, a number of technical papers and six books. Books authored by him are published and marketed by several national and international publishers. Indian, American, and

other Universities across the globe cite his books as textbooks for their courses. On public demand, books authored by him have been translated in local languages like Japanese and Hindi. The Institute of Electrical and Electronics Engineers (IEEE), USA conferred the recognition of IEEE Fellow upon Dr. Sinha for Leadership in Distributed and Parallel Processing Systems. He had earlier received the recognition of “ACM Distinguished Engineer” from the Association for Computing Machinery (ACM), USA for significant accomplishments in, and impact on, the computing field. He also received the “2011 VASVIK Research Award” in the category of Information & Communication Technology (ICT) and the “Intel Pathfinder Award (2013)” from Intel, USA. Currently, he is also the Chairman of the Executive Council of IEEE Pune Section.



**Dr. Neha Sharma** is the Director of Zeal Institute of Business Administration, Computer Application & Research, Narhegaon, Pune, Maharashtra, India. She is an alumnus of a premier College of Engineering affiliated to Orissa University of Agriculture and Technology, Bhubaneswar. Neha Sharma has completed her PhD from prestigious Indian School of Mines, Dhanbad. She is a core team member of IEEE Pune Section. She is an astute academician and has organized several national and international conferences and seminars. She has published several papers in reputed indexed journals as well as authored couple of books and bagged Best PhD Thesis Award by Computer Society of India. She is a well known figure among the IT circle of Pune, and well sought over for her sound knowledge and professional skills. Neha Sharma has been instrumental in integrating teaching with the current needs of the Industry and steering the college to the present stature. Not only loved by her students, who currently are employed in reputed firms; for her passion to mingle freely with every one, Neha Sharma enjoys the support of her colleagues as well. Her area of interest includes Data Mining, Database Design, Analysis and Design, Artificial intelligence, Big data and Cloud Computing.

*(Annexure B-Conference Management Committee List)*

## **6. CONFERENCE OPERATING MODEL - Preparation of the Event**

Every conference has its own model of operation in organizing the event. ICDMAI-2017 opted to serve as a vehicle for thought-leaders, academicians, researchers and industry personnel, to have a spirited debate and discussion on the many advances and challenges in the field of Data Management, Analytics and Innovation and at the end propose creative solutions to combat the challenges in these areas.

Keeping **QUALITY** as single point agenda, we started preparation of this mega event around 16 months back. Various activities of the conference were identified and accordingly timeline was prepared. Also, various roles for the conference were finalized and the responsibilities were defined. General Chairs and other committee members were appointed.

To elevate the level of the conference and give it a wide visibility, the conference was registered with **IEEE**. We contacted IEEE Pune Section for suggesting the names of their representatives to serve as Chairs and Members of various committees of the ICDMAI-2017. It was decided after a rigorous brainstorming session, that there should be four tracks in the conference in order to encourage inter-disciplinary research. A **Call for Paper** was released after working on the details of each track along with deadline for paper submission, notification and registration.

An exclusive website (<http://www.icdmai.com>) was developed for the conference keeping in view the need of communication with researchers, reviewers and guests. The website helped the prospective paper presenters and delegates in getting important details such as guidelines for papers submission, important dates with respects to submission of papers, venue of the conference, etc. The ICDMAI-2017 was registered with conference management portal, **easychair** to provide a hassle free interface to authors for paper submission, smooth paper review and unbiased paper selection process. The conference was registered on various conference alert websites and simultaneous email blast was done to reachout to the research community and provide the wide publicity to the mega event.

Conference budget was prepared and a separate bank account was opened. Conference Publication Form was submitted to IEEE to obtain Letter of Acquisition (LOA) and registered for PDF eXpress. Further, Proposals for grant were submitted to government organization and sponsorship brochures were sent to prospective industries. Rigorous effort was taken to outreach to educational institutions, corporations, government and industry for support and patronage. A diligent effort was made to identify the Key note speakers, Resource Persons for invited talks, Call for Tutorials and Chief Guests, Guest of Honor and other Guests. Application to seek permission from Ministry of External Affairs was submitted and Visa process was established for international attendees.

The operating model for the conference promised it to be more than a just another “talk shop”, but would provide an opportunity to attend preconference tutorials, listen to many eminent personalities of the world, watch Robotics Show by DRDO, present innovative ideas and work and participate in Smart city discussions. Research Papers were segregated in **four tracks** and scheduled to be presented in **three sessions**. Track Chairs, Session Chairs and Jury members were identified to evaluate the paper. Finally, a **press conference** was organized to brief the media about the conference, countries participating, guests, speakers, quality of paper submitted and other highlights of the conference.





## **7. RESOURCE PERSON AT ICDMAI 2017**

### **Chief Guest – Dr. Valentina E. Balas**



Valentina is currently Full Professor in the Department of Automatics and Applied Software at the Faculty of Engineering, "Aurel Vlaicu" University of Arad, Romania. She holds a Ph.D. in Applied Electronics and Telecommunications from Polytechnic University of Timisoara. Dr. Balas is author of more than 200 research papers in refereed journals and International Conferences. Her research interests are in Intelligent Systems, Fuzzy Control, So<sup>2</sup> Computing, Smart Sensors, Information Fusion, Modeling and Simulation. She is the Editor-in Chief to International Journal of Advanced Intelligence Paradigms (IJAIP) and to International Journal of Computational Systems Engineering (IJCSysE), member in Editorial Board member of several national and international journals and is evaluator expert for national and international projects. She served as General Chair of the International Workshop So<sup>2</sup> Computing and Applications in seven editions 2005-2016 held in Romania and Hungary. Dr. Balas participated in many international conferences as Organizer, Session Chair and member in International Program Committee. She is a member of EUSFLAT, ACM and a Senior Member IEEE, member in TC - Fuzzy Systems (IEEE CIS), member in TC - Emergent Technologies (IEEE CIS), member in TC - So<sup>2</sup> Computing (IEEE SMCS). Dr. Balas was Vice-president (Awards) of IFSA International Fuzzy Systems Association Council (2013-2015) and is a Joint Secretary of Joint Secretary of the Governing Council of Forum for Interdisciplinary Mathematics (FIM), - A Multidisciplinary Academic Body, India.

### **Guest of Honor – Dr. Harrick Vin**



Dr. Vin is a Vice President and the Global Head of Digitate, a Tata Consultancy Services Venture. Prior to this role, he was the Chief Scientist of the Tata Research Development and Design Centre (TRDDC) at Tata Consultancy Services (TCS). He was also the Global Head for Innovation and Transformation for IT Infrastructure Services at TCS. Over the past 20 years, Harrick has been involved in developing novel solutions in variety of areas in computing. Harrick has authored more than 150 papers in leading international journals and conferences. Harrick is a recipient of several awards including the Faculty Fellow in Computer Sciences, Dean's Fellowship, National Science Foundation CAREER award, IBM Faculty Development Award, Fellow of the IBM Austin Center for Advanced Studies, AT&T Foundation Award, National Science Foundation Research Initiation Award, IBM Doctoral Fellowship, NCR

Innovation Award, and San Diego Supercomputer Center Creative Computing Award. He has served on the Editorial Board of ACM/Springer Multimedia Systems Journal, IEEE Transactions on Multimedia, and IEEE Multimedia. He has been a guest editor for IEEE Network. He has served as the conference and program chairperson for the premier ACM and IEEE international conferences in the area of multimedia systems and networks; and served as a technical program committee member for many international conferences. Harrick received his PhD in Computer Science and Engineering from the University of California, San Diego in 1993 and Bachelors in Computer Science from the Indian Institute of Technology (IIT), Bombay in 1987.

## **Keynote Speakers**

### **1. Prof. Raghunath K. Shevgaonkar, FIEEE, Ex-Director IIT Delhi, and Ex-Vice Chancellor University of Pune**



Professor Shevgaonkar has been an active researcher in the area of Optical communication, Image processing, Antennas, Microwaves, Radio astronomy etc. He was involved in commissioning the Decameter wave radio telescope at Indian Institute of Astrophysics and Raman Research Institute, Bangalore. He established Fibre Optics lab and founded the Centre for Distance education at IIT Bombay. He was Director of IIT Delhi and Vice Chancellor University of Pune. He has published more than 175 papers in international journals and conferences, and two books with McGraw Hill Education namely 'Electromagnetic Waves' and 'Transmission lines' for Electrical Engineers. He has guided 18 PhDs and more than 30 M.Tech. dissertations. His video and web lectures on Transmission Lines and Electromagnetic Waves, and Advanced Optical communication are used worldwide through YouTube. Professor Shevgaonkar is a recipient of IEEE Undergraduate Teaching award 2011, IETE award for his outstanding contribution to Optical communication, and the 'Excellence in Teaching' award of IIT Bombay. He has received the Education Leadership Award 2012 from Headlines Today, New Delhi. He is also a recipient of VASVIK Award (2009) in the category of Information & Communication Technology, IETE – Ram Lal Wadhwa Award (2013) and IEEE William E. Sayle Award for Achievement in Education (2014). He is Fellow of IEEE, Fellow of Indian National Academy of Engineering, Fellow of National Academy of Science, India, Fellow of Institution of Electronics and Telecommunication Engineers, Fellow of Optical Society of India, Fellow of Institution of Engineers, Fellow of Maharashtra Academy of Sciences, and Member of International Astronomical Union and Astronomical Society of India. He has been a member of many international and national research and educational committees.

## 2. Dr. Ashok Deshpande



Professor Ashok Deshpande, Founding Chair Berkeley Initiative in Soft Computing (BISC)-Special interest Group (SIG)-Environment Management Systems (EMS) holds a PhD degree in Engineering and Technology. Dr. Ashok was Deputy Director, National Environmental Engineering Research Institute (NEERI) /CSIR. He is Visiting Professor in Indian Institute of technology Mumbai India and Adjunct Professor College of Engineering Pune India, and NIT Silchar. He is Visiting Professor in IIT Mumbai. Professor Ashok is the first Indian engineer who is so deeply involved in fuzzy logic with applications to variety of systems. Since last 32 years. He has over 4 decades of R&D experience and has over 120 publications in the Journals of international repute/conferences. In the past, Dr. Ashok was WHO Adviser, Common Wealth Science Council Resource Scientist, World Bank Project Director for the studies on Probabilistic Risk Assessment for Chemical Process industry. He also organized a Workshop as WHO Adviser in 5 countries on Unaccounted for Water Management and also assisted Danish International Development Authority (DANIDA) as a Project Advisor. More importantly, Professor Lotfi Zadeh, the founder of fuzzy logic, after listening to many seminar talks, asked Professor Ashok Deshpande to be the Chair of Berkeley (BISC)-(SIG)-(EMS). He is also guest faculty at the University of California Berkeley and visiting scientist at Lawrence Berkeley National Laboratory, CA. In 2004, Dr. Ashok was invited by the International Atomic Energy Agency (IAEA) as an expert for organizing a Training Program at CDTN, Brazil on Fuzzy logic with applications and again in 2006. Between 2006-13). He thereafter organized Training workshop on Fuzzy sets and Fuzzy logic in University of Illinois Chicago USA (sponsored by VRI Chicago), UBC Canada, Tribhuvan University Nepal , LTU Sweden, VIT Spain and CSU USA. Professor Ashok delivered seminar talk in University of Maryland Baltimore (Dec 2013, University of University in Gyor Dec 2013), Hungary, Harvard University and two day workshop in Liverpool Hope University, UK and delivered lectures in University of Aberdeen and University of Newcastle UK, University of South Wales, Australia, UBC Canada (2015), a workshop in Essen University Germany, two day long workshop in Tijuana University (2016). Dr. Ashok has organized several faculty training workshop/ delivered seminar talks in this specialized topics in India at IIT's and prestigious universities.

## 3. Dr. K Subramanian, Chair, IEEE Delhi section



Prof. K Subramanian, was the first director and Professor at Advanced centre for Informatics and Innovative Learning(ACIIL), IGNOU and introduced 28 Advanced Technology, Engineering and Management Courses at Masters Level and started Research Programs in the Interdisciplinary areas of Knowledge Management, Informatics and Information and Communications Technologies and Management through Partnership Institutions. He was one

of the founder creators of National Informatics Centre, Under the Ministry of Communications and Information Technology, Government of India and served there for 32 years. He served as the Information Technology Adviser to CAG of India (Comptroller & Auditor General of India) for more than a decade and Half, introducing IT audit infrastructure and capacity building for auditing Governmental (Federal/State/District) and Public sectors and autonomous bodies. He has over four decades of experience in Architecture, design, development, Implementation & Audit of Technology & Systems in the Union of India. A Pioneer in introducing Technology, Innovation - modernization of Indian Financial Services industry, MEGA IT Projects of Railways, Police, Passport, Immigration, Postal and Telecom. He has initiated Advanced Research and contributed in formation of National/International standards in Cyber Security, Audit and Forensics. In the field of Education, Educational Reforms and Governance, he is an expert, covering ICT for and in Education, developed and implemented Multilayer Open Source eLearning, & Management Framework. As a Capacity Building and Skill Development Expert, he was instrumental in the creation of ICISA (International Centre for Information Systems Audit) CAG of India, National Institute of Financial Management (NIBM), MOF-GOI, IDRBT-Reserve Bank of India, SBIICM -State Bank of India, PNBIIT - Punjab National Bank. He prepared a blueprint document for Government of Japan “Education on Demand”. Dr. Subramanian is a Fellow of IETE, National Telematics Forum (NTF), Indian Science Association (ISA), Indian Institute of Standards Engineers (ISE); Senior Member of IEEE (USA) (IEEE computer, communications, Engineering Management, Education Systems, Man & Cybernetics); Member of All India Management Association, All India Association of Educational Research, American Information Society(AIS), Association of Computing Machinery ACM(USA), Association of Certified Fraud Examiners(ACFE,USA); Senior Life Member of Computer Society of India (CSI); Emeritus president of e-information systems, security, and audit association (eISSA); Past President Cyber Society of India; Director in the board of Commonwealth Centre for Electronic Governance, India; Member of Academic Board, ITZ Group of Institutions, NIILM(CME), Academic council@ IGNOU; NAAC(Min of HRD) member, for accreditation of Institutions; Member of Technical Committees of Quality Council of India (QCI) for certifying certifiers:-IS 9000, IS 27000, IS 20000 Standards, & for accreditation of the technical skills required by IT/ITeS industry on behalf of NASSCOM; Member LTD (Electronics & communication) and Management Systems-Bureau of Indian Standards (BIS).

#### **4. Dr. Lakhmi Jain**



Professor Dr Lakhmi C. Jain is with the Faculty of Education, Science, Technology & Mathematics at the University of Canberra, Australia and Bournemouth University, United Kingdom. He is a Fellow of the Institution of Engineers Australia. Dr Jain founded the KES International for providing a professional community the opportunities for publications, knowledge exchange, cooperation and teaming.

Involving around 10,000 researchers drawn from universities and companies world-wide, KES facilitates international cooperation and generate synergy in teaching and research. KES regularly provides networking opportunities for professional community through one of the largest conferences of its kind in the area of KES. [www.kesinternational.org](http://www.kesinternational.org) . His interests focus on the artificial intelligence paradigms and their applications in complex systems, security, e-education, e-healthcare, unmanned air vehicles and intelligent agents.

## 5. Dr. Eleni Mangina



Assoc. Prof. Eleni Mangina carried out her PhD work at the University of Strathclyde (UK), Dept. of Electronic and Electrical Engineering, working on Agent-based applications for intelligent data interpretation. The research area focused on software analysis, design and development of multi agent systems, which utilise different Artificial Intelligence (AI) techniques (Knowledge based systems, Artificial Neural Networks, Case Based Reasoning systems and Model based Reasoning systems). Dr Mangina holds an M.Sc. in Artificial Intelligence from the Department of Artificial Intelligence at University of Edinburgh in the UK and an MSc in Agricultural Science from Agricultural University of Athens in Greece. Dr Mangina joined School of Computer Science (UCD) in 2002 and is an active researcher in the area of Artificial Intelligence (AI) applications in domains like engineering, power industry, bioinformatics, education, agriculture, supply chain management and music. She has a track record of more than 150 publications in national and international peer reviewed workshops and conferences and international journals , including in IEEE and ACM and a number of book chapters and contributes as a committee member for reviews to many international conferences. Recent research focus includes Robotics, Remotely Piloted Aircraft Systems and Virtual and Augmented Reality applications in education through simulation.

## 6. Dr. Sanjay Mishra



Sanjay Misra is full Professor of Computer Engineering at Covenant University, Ota, Nigeria. He has 21 years of wide experience in academic administration and researches in various universities in Asia, Europe and Africa. He is Ph.d. in Information and Know. Engg (Software Engineering) from University of Alcala, Spain and M.Tech.(Software Engineering) from Motilal Nehru National Institute of Technology, India. He is a software engineer and previously held academic positions at FUT Minna - Nigeria (as Head Department of Computer Engineering and Cyber security), Atilim University - Turkey, Subharati University and UP Technical University - India.

## 7. Dr. D. H. Manjaiah

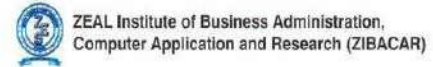


Dr. Manjaiah D. H. is currently professor & chairman of BoS in Computer Science, Mangalore University, and is specialized in Advanced Computer Networks, Linux Environment System, Mobile Computing & Wireless Communication, Cloud and Grid Computing, Digital Forensics. His research continues in the field of AD-HOC Networks, Wireless Sensor Network, IPv4 & IPv6 mobility and many more. Under the guidance of Sir, 5 candidates have successfully completed their Ph.D, 8 are currently working out of 2 are overseas candidates & 6 have successfully completed their M. Phil. Dr. Manjaiah D. H has over 80 research papers published in International / National journals, 90 and above in International / National conference proceedings & have given over 130 technical talks in International / National Conferences, Symposiums, Workshops. He is also active member of several top associations around the world.

## 8. Dr. Rajesh Arora



Prof. (Dr) Rajesh Arora is currently designated as Host Scientist for Directing Post Doctoral Research for African Scholars by FICCI (New Delhi) and Department of Science and Technology, Government of India. The efforts invested in for 28 years in Industry exposure in the areas of Sales/Marketing/ Training/ Research/ Consultancy has guided him to coach People and Organisation for Business success where training is linked to Business Goals and Profits. He has consulted Large MNC on Business, People, Process in a list of varied verticals i.e. FMCG, Consumer Durables, Automotives, Oil Power Gas, Banking, Finance, Insurance, Manufacturing, Gems and Jewellery, Real Estate, Hospitality, Education & IT.



**Padmaabhee and Padmabhushan Dr. Vijay Bhaskar**  
IT Computer Scientist, Chairman, ETH Research Lab, Pune  
India Member of Scientific Advisory Committee to Cabinet of Govt. of India,  
Sovereign Council Member of CSIR, India and e-Governance Committee Chairman of Govt.  
of Maharashtra and Govt.  
IEEE, ACM, CSI, IMAE and leading scientific, engineering and professional societies of India



**P.E. Girika**  
Chair, IEEE Pune Section  
Vice-Chancellor and Director  
Dr. C.P.M.A.K. International Institute of Information Technology, Rajpur

### Eminent Speakers



**Valertina Emilia Galas**  
University of Aird, Romania



**Dr. Eloni Mangra**  
University College, Ireland



**Dr. Lishmi C. Jain**  
University of Canberra, Australia



**Prof. Ashak Deshpande**  
Founding Chair, Berkeley Institute  
in Software Computing (BISC)



**Dr. Manjaiah D. H.**  
Mangalore University



**Dr. Rajesh Arora**  
FICCI (New Delhi)



**Dr. Harick Vin**  
TCS



**Sanjay Misra**  
Covenant University, Nigeria



**Dr. K. Subramanian**  
Advanced Center for Informatics  
and Innovative Learning (ACIL)



**Raghunath K. Shivgaonkar**  
Ex Director, IIT Delhi

## Speakers for Smart City Session

### 1. Dr. Inderjit Singh Barara



Inderjit is a well-known personality in technical world especially in the world of Information System. An experienced Information Systems Professional with experience of more than 25 year across a wide spectrum of areas spanning solution architecture, program/ project management Telecom, IT Infrastructure Management, Info Security Advisory and Architecture, Cyber Security and Cyber Forensics, Data Centers Design and Operations, Cloud Computing and E-Commerce. He has consistently delivered mission-critical results and seamlessly managed diverse functions related to Project Management, Service Delivery and Key Account Management. He exhibits and models, influential leadership skills through efficient management of large and dispersed teams while promoting a cooperative working atmosphere.

### 2. Dr. G. S. Mani, (Chair IEEE Pune Section)



Former Director & Dean of Defence Institute of Armament Technology, Defence Research and Development Organizatio, Pune

### 3. Mr. Jitendra Tanna,



Mr. Jitendra Tanna is a President & CEO at Eternus Solutions Pvt Ltd. Prior to this, he was Founder Director at JUSTaarogyam.com; Charter Member - TiE Pune; Vice President, Fujitsu Consulting India Private Limited.

Cities across the world are implementing a broad range of technical, social and infrastructure changes to reshape how cities, businesses and citizens work and interact. Let's meet up to discuss-

1. Constitution of Smart Cities Innovation Council of India
2. Form different working groups as per interest n expertise
3. Form core committee and define their responsibilities
4. Define code of conduct
5. Define working model
6. Decide the objectives and deliverables.

If you are interested, kindly register at [www.icdmai.com](http://www.icdmai.com).

on 26<sup>th</sup> Feb 2017, at



ZEAL Institute of Business Administration, Computer Application and Research  
(ZIBACAR)



Discussion Sessions on



## Speakers for Pre-Conference Tutorial Sessions

1. **Dr. Amlan Chakrabarti**, Dean, Faculty of Engineering, UoK; Director and Professor, A.K.Choudhury School of Information Technology



Professor Amlan Chakrabarti is at present the Dean Faculty of Engineering and Technology and the Director of the A.K.Choudhury School of Information Technology, University of Calcutta. His research interests are: Quantum Computing, VLSI design, Embedded System Design, Video and Image Processing Algorithms, Data Analytics. He has done his Doctoral research on Quantum Computing and related VLSI design at Indian Statistical Institute, Kolkata, 2004-2008.

2. **Dr. Manasi Patwardhan**, Dean of Research and Industrial Relations at Vishwakarma Institute of Technology, Pune



Manasi Patwardhan is currently working as the Dean of Research and Industrial Relations at Vishwakarma Institute of Technology, Pune and Head & Professor of Computer Engineering Department. Prior to this, she has worked as a researcher at a research lab named Knowledge Based Systems Inc., College Station, TX, USA. She has established a research group in VIT, which works on the research problems inclined towards human behavioural analytics. Her research interests include data analytics and machine learning for data mining. She holds a BE degree in instrumentation engineering from University of Pune, as well as an MS degree and Ph.D. degree in Computer Science, both from University of Tulsa, OK, USA. She has over 10 years of experience in writing and procuring research grants, managing the entire faculty group of VIT, and guiding several post-graduate and doctorate students. She has received the Young Engineer Award from IEI, ACM Grace Hoppers Scholarship and VIT Shree best teacher and researcher award. She has chaired several ACM and IEEE committees. She is a member of professional bodies such as ACM, IEI and IEEE.

3. **Dr. Gopi Krishna Durbhaka**, Senior Member IEEE, Fellow of ISECE



Gopi Krishna Durbhaka is a Senior Member of IEEE Community and Fellow Member of Indian Society of Electronics and Communication Engineers (FISECE). He is at present working with TCS Innovation and Transformation Group and prior to this had been working with HCL Technologies and R&D organization under Ministry of Communications and Information Technology, Govt. of India. He has filed multiple patents both in IPO and USPTO. He had specialized his Master of Engineering in Electronics & Control and Master of Business Administration in



Technology Management. His major areas of research interest are Embedded Systems, Wireless communications, Supply Chain management, IoT, Behaviour Pattern Analysis, Machine Learning and NLP.

#### **4. Chaitanya Pandya, Project Manager, Eternus Solutions Pvt Ltd**



Chaitanya Pandya is currently a Sales force Project Manager at Eternus Solutions. He has extensive experience of enterprise cloud implementations for public and private sector organizations across multiple geographies. His key technology focus is on Salesforce.com implementations across Sales Cloud, Service Cloud, Government Cloud and Marketing Cloud. He is a Master of Science in Information Technology, Management & Organizational Change from Lancaster University, UK. His key area of focus during post-graduate research was on the role of technology in knowledge sharing within organizations, and has been involved in research projects focusing on knowledge sharing within higher education institutions. In addition, Mr. Chaitanya has degrees in Cyber Law and Business Administration.

#### **5. Dr. Surekha Deshmukh, Treasurer IEEE Pune Section, PVG's COET**



Dr. Mrs Surekha Rajendra Deshmukh, is working as Associate Professor in Electrical Engineering Dept. of PVG's COET, SPPU, Pune. She did BE (Electrical Engineering-1996), M.E (Electrical Power Systems-2002) and PhD (Electrical Engineering- 2012). She has industry as well as academic experience of 19 years till date. She is a member of working groups of Maharashtra Smart Grid Forum, India Smart Grid Forum and Smart grid projects of Pune Smart City. She has presented Tutorial on Pune Smart Grid at IEEE Smart Cities Conference, 12-15<sup>th</sup> Sept. 2016, Italy. She is a member of IEEE standards group of smart cities. She is associated with Savitribai Phule Pune University at various positions. She is university approved PG and PhD guide and member-Board of studies- Electrical Engineering – SPPU, Pune, India. She has guided more than 15 students for PG and three students are pursuing PhD under her. Till date, she is involved in organizing more than 60 events under IEEE in various positions such as Convener, Organizing Chair, Member- Technical Committee, Organizing committee, resource person. Her areas of interest are Power system operation and control, Artificial Intelligence, Economics of power generation, Reliability analysis and Smart grid. She has on her record, more than 30 papers at International Conference and more than 10 papers at journals. She is actively involved in many research projects of industry and BCUD-SPPU.

**6. Col. Inderjit Singh, Technology Evangelist, Solution Architect and a Mentor**



Inderjit is a well-known personality in technical world especially in the world of Information System. An experienced Information Systems Professional with experience of more than 25 year across a wide spectrum of areas spanning solution architecture, program/ project management Telecom, IT Infrastructure Management, Info Security Advisory and Architecture, Cyber Security and Cyber Forensics, Data Centers Design and Operations, Cloud Computing and E-Commerce. He has consistently delivered mission-critical results and seamlessly managed diverse functions related to Project Management, Service Delivery and Key Account Management. He exhibits and models, influential leadership skills through efficient management of large and dispersed teams while promoting a cooperative working atmosphere. He delegates assignments according to skills and expects implementation of quality strategies. He demonstrates a strong work ethic and encourages teamwork, while clearly defining standards and expectations. He has a strong visioning and strategic thinking ability. He envisions opportunities and converts successfully into business through swift and analytical decision making. Keen eye for innovations in Technology. His Core Competencies are Creating business value supported by technology, Aligning IT with business, thought leadership, IT Transformation, turn around IT organization and improve effectiveness, Managing teams with focus on outcomes, Strategic Outsourcing and cost management, Business Process Improvement & Organizational Efficiency and Effectiveness, leading to applied cross-industry learning towards problem solving, thought leadership for E-Commerce start up.

**Tutorial Speakers for ICDMAI 2017**

**7. Dr. Shashidhar,**  
National Institute of Technology,  
Surathkal, Karnataka



**Dr. Amlan Chakrabarti,**  
Dean, Faculty of Eng., UoK.  
Software-Hardware Co-design for  
new Generation IoTs



**Dr. Gopi Krishna Durbhaka**  
(Senior Member IEEE, Fellow of ISECE)  
Predictive Maintenance of Wind Turbines  
based on the Fault Behavior Pattern Analyst  
applying Machine Learning



**Dr. Manasi Patwardhan**  
(Dean of Research and Industrial Relations at  
Vishwakarma Institute of Technology, Pune)  
Data Analytics R&D Opp.



**Chaitanya Pandya**  
(Project Manager, Eternus Solutions)  
Use of Collaborative Bots (Co-Bots) in IT



**Dr. Surekha Deshmukh**  
(Treasurer IEEE Pune Section, PVG's COET)  
Research Opportunities in Use of  
Artificial Intelligence in Data Analytics



**Col. Inderjeet Singh**  
(Technology Evangelist  
Solution Architect and a Mentor)  
IoT Security:  
Implementation Challenges in Smart Cities

**8. Prof. G. S. Mani,**  
Chair IEEE Pune Section



Former Director & Dean of Defence Institute of Armament Technology,  
Defence Research and Development Organizatio, Pune



**Dr. Shashidhar**  
National Institute of Technology  
Karnataka, Surathkal



**Dr. G. S. Mani**  
Chair IEEE Pune Section

## 8. TECHNICAL SPONSORS



IEEE Pune Section (R0 01 20) was established on June 26, 2010 with terrestrial boundaries confined to Pune Metropolitan City (Postal Code: 411001 to 411999). The Section falls under the jurisdiction of Asia Pacific Region (R-10) of IEEE. At present, the Pune Section has more than 300 professional members and over 1100 other members, including student members. There are 19 IEEE Student Branches in different Engineering Colleges in and around Pune City.

IEEE Computer Society is a professional society of IEEE. Its purpose and scope is "to advance the theory, practice, and application of computer and information processing science and technology" and the "professional standing of its members"

## 9. OTHER SPONSORS



## 10. ITINERARY

### DAY 1

24th February 2017

24th February 2017						
Date/Time	Min(s)	Bldg. D Class Room No. CR-302		Bldg. D Class Room No. CR-303		
		Speaker Name	Topics	Speaker Name	Topics	
FRIDAY 24-FEB-2017	09:30 - 10:30	60	Breakfast and Registration			
	10:30 - 11:45	75	<b>Dr. Amlan Chakrabarti.</b> Dean, Faculty of Eng., UoK.	Software-Hardware Co-design for new Generation IoTs	<b>Dr. Gopi Krishna Durbhaka,</b> Senior Member IEEE, Fellow of ISECE	Predictive Maintenance of Wind Turbines based on the Fault Behavior Pattern Analysis applying Machine Learning
	<b>11:45 - 12:00</b>	<b>15</b>	<b>Break</b>			
	12:00 - 13:15	75	<b>Dr. Manasi Patwardhan</b> Dean of Research and Industrial Relations at Vishwakarma Institute of Technology, Pune	Data Analytics R&D Opportunities	<b>Chaitanya Pandya</b> Project Manager, Eternus Solutions Pvt Ltd	Use of Collaborative Bots (Co-Bots) in IT
	<b>13:15 - 13:25</b>	<b>10</b>	<b>Photo Session</b>			
	<b>13:15 - 14:00</b>	<b>45</b>	<b>Lunch</b>			
	14:00 - 15:15	75	<b>Dr. Surekha Deshmukh</b> Treasurer IEEE Pune Section, PVG's COET	Research Opportunities in Use of Artificial Intelligence in Data Analytics	<b>Col. Inderjit Singh</b> Technology Evangelist, Solution Architect and a Mentor	IoT Security: Implementation Challenges in Smart Cities
	<b>15:15 - 15:30</b>	<b>15</b>	<b>Break</b>			
	15:30 - 16:45	75	<b>Dr. Shashidhar</b> National Institute of Technology Karnataka, Surathkal	Feature Extraction & Analysis from Speech Data	<b>Prof. G. S. Mani,</b> Chair IEEE Pune Section	Technology Management

**DAY 2**

**25th February 2017, ZES, Narhe, Pune**

		Chatrapati Shivaji Maharaj Auditorium					
SATURDAY 25-FEB-2017	09:30 - 10:30	60	Inauguration & Key Note Address	<b>Inauguration Function</b>			
	10:30 - 11:00	30		Keynote Address 1 by Chief Guest - <b>Dr. Valentina Balas</b>			
	11:00 - 11:30	30		Keynote Address 2 by Guest of Honour - <b>Dr. Harrick Vin</b>			
				Bldg. D Conference Hall	Bldg. D CR-204	Bldg. D CR-302	Bldg. D CR-303
	11:30 - 13:00	90	<b>Session 1</b>	<b>Track 1</b> (Data Analytics in Electrical Engineering)	<b>Track 2</b> (Electronics and Telecommunication Engineering)	<b>Track 3</b> (Analytics in Computer Engineering and Application)	<b>Track 4</b> (Data Management in Functional Areas)
	13:00 - 13:10	10	Photo Session				
	13:10 - 14:00	60	Lunch				
			Chatrapati Shivaji Maharaj Auditorium				
	14:00 - 14:30	30	Keynote Address - <b>Dr. Shevgaonkar</b>				
	14:30 - 15:00	30	Plenary Talk - <b>Dr. Ashok Deshpande</b>				
			Bldg. D Conference Hall	Bldg. D CR-204	Bldg. D CR-302	Bldg. D CR-303	
15:00 - 16:45	105	<b>Session 2</b>	<b>Track 1</b> (Data Analytics in Electrical Engineering)	<b>Track 2</b> (Electronics and Telecommunication Engineering)	<b>Track 3</b> (Analytics in Computer Engineering and Application)	<b>Track 4</b> (Data Management in Functional Areas)	
16:45 - 17:15	30	<b>DRDO Robotics Show</b>					
17:15 - 17:45	30	High Tea					
18:30 Onwards		<b>Cultural Program &amp; Banquet Dinner</b>					

**DAY 3**

**26th February 2017, ZES, Narhe, Pune**

		Chatrapati Shivaji Maharaj Auditorium					
SUNDAY 26-FEB-2017	08:30 - 09:00	30	Registration & Breakfast				
	09:00 - 09:30	30	Plenary Address - <b>Dr. Subramaniam</b>				
	09:30 - 10:00	30	Keynote Address - <b>Dr. Lakhmi Jain</b>				
	10:00 - 11:00	60	<b>Smart City Discussion</b>				
	11:00 - 11:15	15	Tea Break				
	11:15 - 11:45	30	Plenary Address - <b>Dr. Eleni Mangina</b>				
	11:45 - 13:00	75	<b>Session 3</b>	<b>Innovation Track</b>			
	13:00 - 13:10	10	Photo Session				
	13:10 - 14:00	60	Lunch				
	14:00 - 14:30	30	Plenary Address - <b>Dr. Sanjay Misra</b>				
				Bldg. D Conference Hall	Bldg. D CR-204	Bldg. D CR-302	Bldg. D CR-303
	14:30 - 16:15	105	<b>Session 4</b>	<b>Track 1</b> (Data Analytics in Electrical Engineering)	<b>Track 2</b> (Electronics and Telecommunication Engineering)	<b>Track 3</b> (Analytics in Computer Engineering and Application)	<b>Track 4</b> (Data Management in Functional Areas)
				Chatrapati Shivaji Maharaj Auditorium			
	16:15 - 16:30	15	Valedictory Session - <b>Dr. Rajesh Arora</b>				
16:30 - 17:00	30	Valedictory Session - <b>Dr. D. H. Manjaiah</b>					

## 11. EXECUTIVE SUMMARY

### Day 01:

The conference began on 24<sup>th</sup> February 2017 with Pre-Conference Tutorials, which were broadly divided into two tracks – Academia Track and Industry Track. The delegates and the participants from various institutes arrived at 09.00 AM at the Registration Desk and registered for the track of their interest.



Delegates being ushered to the Registration Desk of ICDMAI 2017

The programme begun at 09.30AM as per schedule. All the participants assembled in Tutorial Rooms especially decked up for the Pre-Conference Tutorial Session. Prof. Madhavi Shamkuwar and Prof. Anjali Mandake, Assistant Professors, ZIBACAR and Coordinators, **Academia Track of Pre-Conference Tutorial**, welcomed everybody to the First day of ICDMAI–2017. After giving a brief introduction about the conference, they introduced each and every speaker as per the schedule. Dr. Neha Sharma, Director, ZIBACAR, felicitated the esteemed speakers with a token of appreciation.



Prof. Madhavi and Prof. Anjali briefing the delegates regarding Pre-Conference Tutorial Talk

Details of the talk under Academia Track are mentioned below:-

24th February 2017- <b>Pre Conference Tutorial: Academia Track</b>		
Venue: Bldg. D Class Room No. CR-302		
09:30 - 10:30	60	Breakfast and Registration
10:30 - 11:45	75	<b>Dr. Amlan Chakrabarti</b> , Dean, Faculty of Eng., UoK.
		Software-Hardware Co-design for new Generation IoTs
11:45 - 12:00	15	Break
12:00 - 13:15	75	<b>Dr. Manasi Patwardhan</b> , Dean, Research and Industrial Relations, Vishwakarma Institute of Technology, Pune
		Data Analytics R&D Opportunities
13:15 - 13:25	10	Photo Session
13:15 - 14:00	45	Lunch
14:00 - 15:15	75	<b>Dr. Surekha Deshmukh</b> , Treasurer IEEE Pune Section, Professor, PVG's COET
		Research Opportunities in Use of Artificial Intelligence in Data Analytics
15:15 - 15:30	15	Break
15:30 - 16:45	75	<b>Dr. Shashidhar Koolagudi</b> National Institute of Technology Karnataka, Surathkal
		Feature Ext. & Analysis from Speech Data

- a) Dr. Amlan Chakrabarti's talk on "*Software-Hardware Co-design for new Generation IoTs*" focused on hardware-software co-design which is a recent technological trend among the system designers and design engineers to facilitate the design of small embedded systems especially in the internet of things (IoT) space. He explained that the Co-design methodologies are implemented as new "types" of electronic design and automation tools, which are intended to give relief to designers struggling with provisional divisions of hardware and software components, and the associated integration problems. In this pre-conference tutorial, he emphasize on fundamental as well as advanced strategies of hardware software co-design and its application in developing intelligent and robust IoT infrastructure. He covered following key aspects in his talk:-
- i. Models and methodologies of system design
  - ii. Hardware software partitioning and scheduling
  - iii. Co-simulation, synthesis and verifications
  - iv. System on chip for IoT Applications
  - v. Reconfigurable and partially reconfigurable targets for IoT applications.



Dr. Amlan, also explained the concept of components of IoT, machine-to-machine communication, human-to-machine communication, vertical sectors of IoT, IoT Ecosystem and many more technical aspects. Dr. Amlan helped us understand know-how to make world a smarter one with emerging technologies like IoT and clarified myths of IoT



**Dr. Amlan Chakrabarti delivering a Pre-Conference Tutorial Talk at ICDMAI 2017**

- b) The second talk on “*Data Analytics R&D Opportunities*” was given by Dr. Manasi Patwardhan, where she explained the concept of Data Science, which covers many aspects starting from statistics and probability theory to data mining, machine learning, etc. She provided a complete understanding of different subareas of data science and explained how data science in short is applied statistics by providing some case studies. She further explained advance data analytics techniques such as data mining, machine learning, deep learning, etc and its current applications. In her simple and yet effective style, she explained the concept of data analytics and various application of it. She shared the details of five projects on which she is working and received research grant. She explained data analytics with respect to Indian Classical music, mental

health, Gyan shodh, facial expression in real time environment, aesthetics. Dr. Manasi truly played the data analytics chords of participants.



**Dr. Manasi Patvardhan delivering a Pre-Conference Tutorial Talk at ICDMAI 2017**

- c) Post lunch session was delivered by Dr. Surekha Deshmukh on “**Research Opportunities in Use of Artificial Intelligence in Data Analytics**”. She discussed that the restructured Indian Power Sector has opened numerous research opportunities, in the area of data analytics, wherein power system-data is a treasure to understand the real picture of power system. With advancement in smart metering, smart sensors, smart instrumentation, it is very much possible to collect huge data with minimum time line, but the real challenge is to analyze the data in respect of utilizing it for gaining real time solutions. She further explained that the power system data has characteristics of being random, uncertain and volatile in many of the cases. The artificial intelligent tool has an ability to understand, adopt, incorporate and generalize these features while analyzing it, which gives improved accuracy in data analytics. In her tutorial she emphasized on following details:-

- i. The significance of variety of power system-data with wide features
- ii. The necessity of huge data collection and data analytics
- iii. The role of Artificial Intelligence (AI) in power system data analytics
- iv. Real time applications in domains as short term planning, short term forecasting, economics of power generation, real time markets, power trading

She covered most important practical points such as smoothening techniques of data, sample-strategy in data analytics, optimum data sets, development of AI tool for various applications, appropriate error evaluation technique. The tutorial also further covered the actual case studies of data analytics in association with Maharashtra State Electricity Transmission Company Ltd, Indian Energy Exchange, Suzlon Wind Energy.



**Dr. Surekha Deshmukh delivering a Pre-Conference Tutorial Talk at ICDMAI 2017**

d) The final talk of academia track was on “*Feature Extraction & Analysis from Speech Data*” by Dr. Shashidhar Koolagudi, who explained that pattern recognition and machine learning tasks are the first and the important phase is “Feature Extraction”. He briefed about features which are basically compact and enriched representation of the whole signal. In this pre-conference tutorial, he explained different features and their characteristics which are normally being extracted and popularly being used for implementing various speech tasks. He further explained the following categories of features:-

- i. Excitation source features
- ii. System features
- iii. Prosodic features

The information content, process of extraction and possible applications of each of the features mentioned above were discussed as the part of this tutorial by Dr. Shashidhar in extremely simplistic manner.



**Dr. Shashidhar Koolagudi delivering a Pre-Conference Tutorial Talk at ICDMAI 2017**

Participants thoroughly enjoyed all the talks of pre-conference tutorials in Academic Track.



**Participants at Pre-Conference Tutorial Talk at ICDMAI 2017**

Prof. Kirti Samrit and Dr. Neerja Asawale, Assistant Professors, ZIBACAR and Coordinators, **Industry Track of Pre-Conference Tutorial**, welcomed everybody to the First day of ICDMAI–2017. After giving a brief introduction about the conference, they introduced each and every speaker as per the schedule. Dr. Neha Sharma, Director, ZIBACAR, felicitated the esteemed speakers with a token of appreciation.



**Prof. Kirti and Dr. Neerja briefing the delegates regarding Pre-Conference Tutorial Talk**

Details of the talk under Industry Track are mentioned below:-

24th February 2017- <b>Pre Conference Tutorial: Industry Track</b>		
Venue: Bldg. D Class Room No. CR-303		
09:30 - 10:30	60	Breakfast and Registration
10:30 - 11:45	75	<b>Dr. Gopi Krishna Durbhaka</b> Senior Member IEEE, Fellow of ISECE Predictive Maintenance of Wind Turbines based on the Fault Behavior Pattern Analysis applying Machine Learning
11:45 - 12:00	15	Break
12:00 - 13:15	75	<b>Chaitanya Pandya</b> Project Manager, Eternus Solutions Pvt Ltd Use of Collaborative Bots (Co-Bots) in IT
13:15 - 13:25	10	Photo Session
13:15 - 14:00	45	Lunch
14:00 - 15:15	75	<b>Col. Inderjit Singh</b> Technology Evangelist, Solution Architect and a Mentor IoT Security: Implementation Challenges in Smart Cities
15:15 - 15:30	15	Break
15:30 - 16:45	75	<b>Prof. G. S. Mani</b> Chair IEEE Pune Section Technology Management

- a) The first talk of industry track was on “*Predictive Maintenance of Wind Turbines based on the Fault Behavior Pattern Analysis applying Machine Learning*” by Dr. Gopi Krishna Durbhaka, who explained the usage of renewable energies like Wind, Solar, Hydro and Tidal power would be the vital issue of the decade to meet the current energy requirements. Growing energy demand and environmental consciousness have re-evoked human interest in wind energy. As a result, wind is the fastest growing energy source in the world today. Wind turbines are used to generate electricity from the kinetic power of the wind, and its predictive maintenance using machine learning can make it really effective.
- b) Mr. Chaitanya Pandya delivered a talk on “*Use of Collaborative Bots (Co-Bots) in IT*”. Collaborative robots, also called co-bots, are increasingly working with humans in a wide range of industries, from small machine shops to large auto assembly lines. These machines help automate and streamline repetitive and potentially unsafe processes, while increasing productivity and efficiency. He gave lots of insight on the topic.



**Dr. Gopi Krishna Durbhaka being felicitated by Dr. Sanjay from Nigeria at Pre-Conference Tutorial**

- c) Col. Inderjit Singh delivered a tutorial talk on “*IoT Security: Implementation Challenges in Smart Cities*”. Col. Singh explained the various features that makes a city smart and he further discussed Security framework, People security, Connected vehicle security, Connected building security, Smart grid security, Network security, IoT security.
- d) Final tutorial talk was delivered by Prof. G. S. Mani on “*Technology Management*”



**Dr. Inderjit Singh Barara delivering a Pre-Conference Tutorial Talk at ICDMAI 2017**

Participants thoroughly enjoyed all the talks of pre-conference tutorials in Industry Track.



Participants at Pre-Conference Tutorial Talk and during Lunch at ICDMAI 2017



**Participants at ICDMAI 2017 on 24 February 2017**



**Team ZIBACAR at ICDMAI 2017**



**Day 02:**

All the delegates and participants arrived at 9.00 AM to the conference venue ie. Chhatrapati Shivaji Maharaj Auditorium, and registered themselves at registration desk. The auditorium was properly decked up and other preparations were diligently completed for the Inauguration function.



**Chhatrapati Shivaji Maharaj Auditorium at ICDMAI 2017**



**Dr. Neha Sharma welcoming and ushering the Guests to Chhatrapati Shivaji Maharaj Auditorium**

The programme begun at 09.30 AM sharp as per schedule and the details of the inauguration function are mentioned below:-

<b>25<sup>th</sup> February 2016, Saturday: INAUGURATION FUNCTION</b>	
<b>TIME</b>	<b>DETAILS</b>
08.30 am – 09.30 am	Registration
09.30 am – 09.35 am	Saraswati Pujan & Saraswati Vandana
09.35 am – 09.40 am	Felicitation of Guests on the Dais
09.40 am – 09.45 am	Welcome Address by Prof. Jayesh Katkar, Executive Director, ZES
09.45 am – 09.50 am	Introduction of ICDMAI by Dr. Neha Sharma, General Chair, ICDMAI 2017
09.50 am –10.00 am	Address by General Chair, Dr. Vijay Bhatkar
10.00 am – 10.10 am	Address by General Chair, Dr. P.K. Sinha
10.10am – 10.15am	Address by IEEE Pune Section Chair, Prof. G.S. Mani
10.15am – 10.20am	Address by Chief Guest, Dr. Valentina Balas
10:20 am – 10:25 am	Address by Guest of Honor, Dr. Harrick Vin
10:25 am – 10:30 am	Vote of Thanks and National Anthem



**Lightening the Lamp to mark the Inauguration of ICDMAI 2017**



**Felicitation of the Guests at ICDMAI 2017**



Inaugural Addresses at ICDMAI 2017



Release of Abstract Book at ICDMAI 2017

Inauguration function was followed by Keynote session by Chief Guest, Dr. Valentina Balas, Professor, University of Romania and Guest of Honor, Dr. Harrick Vin, Vice President and the Global Head of Digitate, a Tata Consultancy Services Venture. Dr. Valentina spoke on topic which is very useful for budding researchers - *Advanced Research Directions in Intelligent Systems*, whereas Dr. Harrick Vin's address on "*Leading the Cognitive Wave*" set the stage for the conference.



Keynote Address by Dr. Valentina Balas and Dr. Harrick Vin at ICDMAI 2017 on 25 February 2017

After Keynote address, the delegates dispersed for the **Session 1** in four different tracks. Post lunch keynote address was by Dr. Raghunath Shevgaonkar, Ex-Director IIT Delhi, and Ex-Vice Chancellor University of Pune, who spoke on “*Envisioning Future and Preparing for it*”. Dr. Ashok Deshpande, Founding Chair Berkeley Initiative in Soft Computing (BISC)-Special interest Group (SIG), delivered a plenary talk on the topic “*Fuzzy logic is Not Fuzzy*”. After post-lunch session of keynote and plenary talk, the delegates once again dispersed for the **Session 2** in four different tracks.



**Keynote Address by Dr. Shevgaonkar and Dr. Ashok Deshpande at ICDMAI 2017 on 25 February 2017**

There was a **Robotics Show** organized by Defense Research and Development Organization (DRDO) for the delegates and participants. The show was conducted by Dr. Alok Mukherjee from DRDO.



**Robotics Show by DRDO at ICDMAI 2017 on 25 February 2017**

In the evening, a traditional **Cultural Program** was organized by in-house faculty of Zeal Education Society, followed by gala **Banquet Dinner**.



**Guests and Delegates enjoying Cultural Evening and Banquet at ICDMAI 2017 on 25 February 2017**



**Glimpse of Guests and Delegates at ICDMAI 2017 on 25 February 2017**



Glimpse of Guests and Delegates at ICDMAI 2017 on 25 February 2017

**Day 03:**

The delegates and participants arrived by 9.00 AM to the conference venue and the day 03 begun with the Plenary talk by Dr. Subramanian, Chair IEEE-Delhi Section on “*Innovation in Data Science/Engineering - Innovative use cases (INDIA) Analytics Fuels Growth of a Nation*”, followed by a keynote by Dr. Lakhmi Jain, Professor at University of Canberra, Australia and Bournemouth University, United Kingdom on “*Intelligent Data Processing and Practical Application*”.



**Keynote Address by Dr. Subramanian and Dr. Lakhmi Jain at ICDMAI 2017 on 26 February 2017**

The day progressed with the most awaited session on “**Smart City Discussions**”. Smart City is and will definitely be one of the most important challenges over the next few decades. From now until 2050, it is estimated that more than six billion people will be living in urban environments, i.e., nearly 75% of the Earth’s population. The mass concentration of individuals in cities creates many opportunities, but also carries with it its share of urban management problems: pollution, poverty, security, cost of living, mobility, etc. Therefore, to provide relevant and vital inputs on the topic, various eminent speakers were invited - Col. Inderjit Singh (Technology Evangelist, Solution Architect and a Mentor), Prof. G. S. Mani (Chair, IEEE Pune Section), Dr. Surekha Deshmukh (Treasurer IEEE Pune Section, PVG’s COET), Mr. Jitendra Tanna (President & CEO, Eternus Solutions Pvt Ltd) and Ms. Neha, Expert from Five Element. Speakers did a great job in generating healthy discussion on the topic.



**Smart City Discussion at ICDMAI 2017 on 26 February 2017**

Followed by the Smart City Session, there was a plenary talk by Dr. Eleni Mangina, Associate Professor, University of Strathclyde (UK) on “**Emerging Technologies and Data Management**”.



**Plenary Session by Dr. Eleni Mangina at ICDMAI 2017 on 26 February 2017**

Innovation is enhanced by a culture of innovation, encouragement of talented inventors and entrepreneurs, collaboration between academics and business people, and proactive investing. Innovation is at the heart of wealth creation and can be increased by conscious support. To promote innovation, an exclusive **Innovation Track** is another highlight of IEEE ICDMAI 2017. We received approx 15 innovative works out of which only 02 has been selected for presentation.



**Innovative Work presented by Prof. G.S. Mani at ICDMAI 2017 on 26 February 2017**



After session 3, there was a plenary Talk by Dr. Sanjay Mishra, Professor of Computer Engineering at Covenant University, Ota, Nigeria, on “*Innovation in Researches through research clusters*”. The delegates once again dispersed for the **Session 4** in four different tracks.



**Keynote Address by Dr. Saniav Mishra at ICDMAI 2017 on 26 Februarv 2017**

Dr. Rajesh Arora could not make it to the conference because of some emergency. Final valedictory keynote talk was delivered by Dr. D. H. Manjaiah, professor & chairman of BoS in Computer Science. Mangalore University, on very interesting topic “*Importance of Open Source Software [OSS] Computational tools for Researchers*”.



**Guests and Delegates at ICDMAI 2017 on 26 Februarv 2017**

Award distribution is a much awaited event in every researchers life, as it gives the returns to the efforts put in by them throughout their research Endeavour. It gives a sense of achievement and a sense of responsibility towards fulfilling further commitments towards research. Therefore, the Best paper Awards were declared for each track and the winners were bestowed with a Trophy and Certificate. On the recommendations of Judges, few Consolation Prizes were also announced to encourage students for good work.



**Winner of Best Paper Award at ICDMAI 2017 on 26 February 2017**

Aristotle quoted that “*Excellence is never an accident. It is always the result of high intention, sincere effort, and intelligent execution; it represents the wise choice of many alternatives - choice, not chance, determines your destiny*”. As per the technical programme committee ICDMAI 2017, the efforts, innovation, intelligent execution presented by all the authors were exemplary and an achievement in itself. At the end, Delegates were requested to collect their certificate from the registration desk and submit their feedback form.



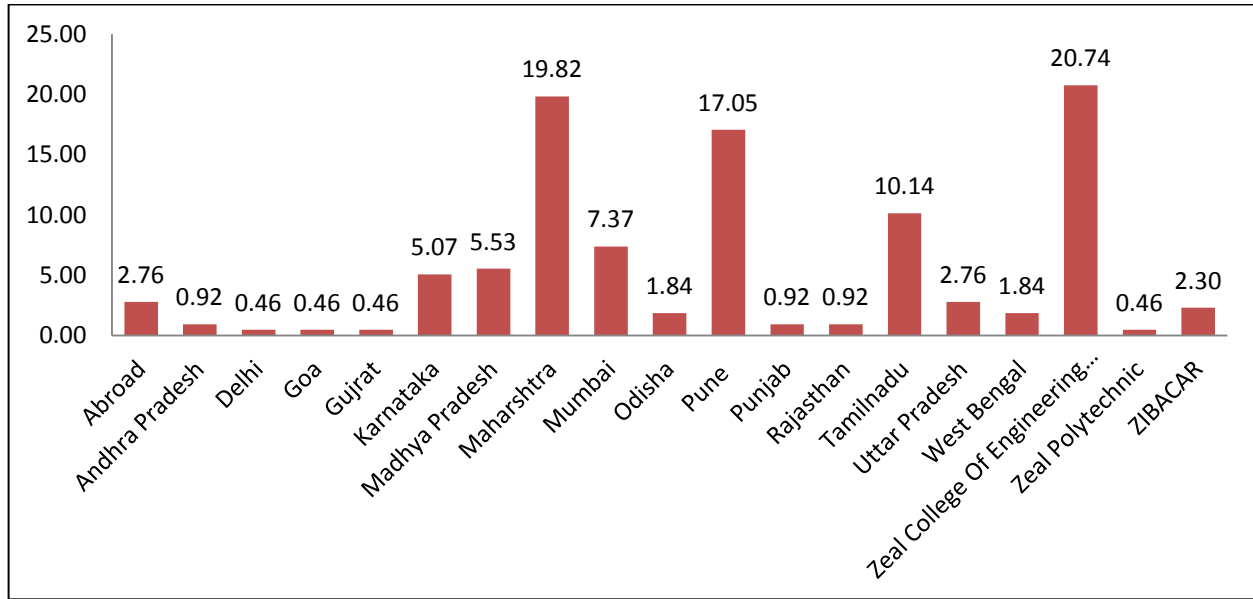
**Bidding Adieu to all the Guests and Delegates at ICDMAI 2017 on 26 February 2017**

Finally, ICDMAI 2017 concluded with a promise to organize ICDMAI again next year.

## 12. ICDMAI-2017 PAPER SUBMISSION METRICS

### 12-A. Response to the Conference

The conference started receiving overwhelming response from all states of India as well as abroad, soon after the conference information was uploaded on the website. This response was evident from the fact that total **450 research papers** that we received for the conference. The graph below shows the distribution of papers received for the conference:-



### 12-B. Review Process

- 1) Solicit Papers/Call for paper
- 2) Conduct plagiarism check of the submitted paper in respective track (Cross Check Tool provided by IEEE)
- 3) Depending on the result, take appropriate action from the following options: -
  - a. If Plagiarism > 50%, then Reject and inform the Author
  - b. If Plagiarism < 50 % and > 30%, then Send back to the Author for the improvement
  - c. If Plagiarism < 30 %, then Accept and inform the Author regarding provisional acceptance
- 4) Assign each paper to the three appropriate Reviewers for Double Blind-review.
- 5) Pursue with the reviewers and encourage them to submit timely review report.

### 12-C. ICDMAI 2017 Metrics

450 Research papers have been submitted for this conference and out of them only **15% papers are selected for oral presentation**. The details of the paper selection and registration statistics are given below:-

Particulars	Information
Total paper received	450
Paper qualified after the plagiarism test	180
<b>Paper selected after double blind review</b>	<b>66 (15%)</b>
Number of participants registered as listener	01
Number of participants registered for Pre-Conference Tutorials	40
<b>Total Delegates registered for ICDMAI 2017</b>	<b>107</b>
Total papers presented at the conference	63
Absenteeism	03
Number of Indian States from where papers were received	15
Papers submitted from Industry	TCS, IBM, Tech Mahindra
International representation at the conference	Australia, Ireland, New Zealand, Romania, Nigeria, New York-US, Yemen, India

**The list of reputed Institutions and Industries from where the papers were submitted:-**

**A.K. Choudhury School of Information Technology , University of Calcutta**

AIMACT, Banasthali University, Rajasthan

AISSMS, IOIT, PUNE

**Amity University, Mumbai**

Amrita School of Business, Coimbatore, Tamilnadu

**Amrita Vishwa Vidyapeetham University, Coimbatore, Tamilnadu**

Amrutvahini College of Engineering, Sangamner

**Aligarh Muslim University, Uttar Pradesh**

Bharati Vidyapeeth College of Engineering, CBD Belpada, Navi Mumbai

BNCE, Bangalore, Karnataka

**Central Research Laboratory, Bharat Electronics Limited, Ghaziabad, UP**

Computer Engineering Department, MAEER's, Maharashtra Institute of Technology, MIT

**Defence Institute of Advanced Technology, Pune**

**Department of Instrumentation and Control, College of Engineering, Pune (COEP)**

Dwarkadas J Sanghvi College of Engineering, Mumbai

Fr. C. Rodrigues Institute of Technology, Vashi

G H Raisonni Collage Of Engineering, Nagpur

G L Bajaj Group of Institutions, Mathura

**Government Engineering College, Goa**

**IBM, Tech Mahindra**

IET DAVV, Bansal Institute of Science and Technology, Oriental Institute of Science and Technology, Indore, MP

**ITM University**

Jiwaji University, Gwalior

JSS Science and Technology University, Mysore  
K.E. Society's Rajarambapu Institute Of Technology Rajaramnagar, Islampur, Sangli  
**KIIT UNIVERSITY, Odisha**  
KKWIEER, Nasik  
KSWU, Bijapur, Karnataka  
L.R.Tiwari college of Engineering, Mira Bhayandar  
LNCT bhopal, MP  
Lovely Professional University, Phagwara  
Madhav Institute Of technology & Science Gwalior, India  
Maharishi Arvind College of Engineering and Research Center,Sirsi Road,Jaipur  
**Manipal Institute of Technology**  
**Massey University, Newzealand**  
MGMCET Navi Mumbai  
MITCOE,Pune  
**National Institute of Technology Karnataka, Surathkal**  
**New York University**  
NITM Gwalior  
PCCOE  
PICT,Pune  
PSGR Krishnammal college for women, Coimbatore, Tamilnadu  
PVG's college of Engineering,Pune  
Raksha Shakti University, Gujrat  
Sambalpur University, Odisha  
Sandip Institute of Technology & Research Center, Nashik, Maharashtra  
SES's R. C. Patel Institute of Technology, Shirpur  
SLRTCE, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai  
SRGI Jhansi, india  
SVCET, Tamilnadu  
Trinity college of engg and research,pune  
VESIT, Mumbai  
Vidyalankar Institute of Technology, Mumbai  
Vignan University, Andhra Pradesh  
Shri Guru Gobind Singhij college Engineering and Technology  
Vishwakarma Institute of Technology  
**VIT University, vellore, Tamilnadu**  
**VITM Gwalior**  
**VJTI, Mumbai Maharashtra**  
**VTU, Belagavi, UBDTCE, Davangere, Karnataka**  
**Yemen and Mangalore University, Karnataka**  
**TCS, Bangalore**

## 12-D. Paper Presentation Session Summary

The selected papers were divided in four tracks which were presented in 03 sessions. Each session was of 90/105 mins and was assigned a session Chair. The evaluation parameters to evaluate the paper presentation were - Depth of Literature survey, Material Methods Used, Experimental Result, Conclusion Drawn and Relevance to the Industry/Society. Time allotted was 10 mins for presentation and 05 mins for Question & Answer. The details regarding the Session Chair(s) and Coordinators for each track are given below:-

25th February 2017					
Mins	Building D	Conference Hall	CR-204	CR-302	CR-303
90	Session 1	<b>Track 1</b> (Data Analytics in Electrical Engineering)	<b>Track 2</b> (Innovations in Electronics and Telecommunication Engineering)	<b>Track 3</b> (Analytics in Computer Engineering and Application)	<b>Track 4</b> (Data Management in Functional Areas)
		Session Chair 1 Dr. Sanjay Misra	Session Chair 1 Dr. Shashidhar Koolagudi	Session Chair 1 Dr. Valentina Balas	Session Chair 1 Col. Inderjeet Singh
		Session Chair 2 Dr. Mahadev Unde	Session Chair 2 Dr. Suresh Shirbahadurkar	Session Chair 2 Dr. S. A. Ubale	Session Chair 2 Dr. Anand Jumle
		Session Co-ordinator Prof. Anjali	Session Co-ordinator Prof. Madhavi	Session Co-ordinator Prof. Kirti	Session Co-ordinator Dr. Neerja
105	Session 2	<b>Track 1</b> (Data Analytics in Electrical Engineering)	<b>Track 2</b> (Innovations in Electronics and Telecommunication Engineering)	<b>Track 3</b> (Analytics in Computer Engineering and Application)	<b>Track 4</b> (Data Management in Functional Areas)
		Session Chair 1 Dr. Surekha D.	Session Chair 1 Dr. Amlan Chakrabarty	Session Chair 1 Dr. Manjaiah	Session Chair 1 Dr. K. Subramanian
		Session Chair 2 Dr. Mahadev Unde	Session Chair 2 Dr. Suresh Shirbahadurkar	Session Chair 2 Dr. S. A. Ubale	Session Chair 2 Dr. Anand Jumle
		Session Co-ordinator Prof. Anjali	Session Co-ordinator Prof. Madhavi	Session Co-ordinator Prof. Kirti	Session Co-ordinator Dr. Neerja

26th February 2017					
Mins	Building D	Conference Hall	CR-204	CR-302	CR-303
105	Session 4	<b>Track 1</b> (Data Analytics in Electrical Engineering)	<b>Track 2</b> (Innovations in Electronics and Telecommunication Engineering)	<b>Track 3</b> (Analytics in Computer Engineering and Application)	(Data Management in Functional Areas)
		Session Chair 1 Dr. Sanjay Deokar	Session Chair 1 Dr. Eleni Mangina	Session Chair 1 Dr. Valentina Balas	Session Chair 1 Dr. Sanjay Misra
		Session Chair 2 Dr. Mahadev Unde	Session Chair 2 Dr. Suresh Shirbahadurkar	Session Chair 2 Dr. S. A. Ubale	Session Chair 2 Dr. Anand Jumle
		Session Co-ordinator Prof. Anjali	Session Co-ordinator Prof. Madhavi	Session Co-ordinator Prof. Kirti	Session Co-ordinator Dr. Neerja

The details of the track wise paper presentations are given below:-

Date/Time	Track	Paper No	Author Name	Title	
Day 2: 25-02-2017	11:30 - 13:00 (90 Mins)	Data Analytics in Electrical Engineering	10	Snehal Kor, Vivek Bavdhane and Anupama Patil	Identification of Underground Cable Fault Location and Development
			32	Ramanan G R, Manikandaraj S and Kamaleshwar R	Implementation of Machine Learning Algorithm for Predicting User Behavior and Smart Energy Management
			60	Pradip Bamane, Nikhil V. Patil, Rohan S. Kanase and Dnyaneshwar R. Bondar	Intelligent Energy Meter with Advanced Billing System and Electricity Theft Detection
			70	Biraja Prasad Nayak and Animesh Shaw	Reduction of Harmonics and Voltage Sag Compensation by Series Active Power Filter
			75	Sourabh Jalnekar and Vijay Gaikwad	PIC16 Based Blowdown Controller for Industrial Boilers
			76	Arun Thorat, Dr. Iranna Korachagaon and Mukund Maskar	A Review on Optimal power flow problem and solution methodologies
	15:00 - 16:45 (105 Mins)	Data Analytics in Electrical Engineering	78	Animesh Shaw and Biraja Prasad Nayak	Electric Vehicle Charging Load Filtering by Power Signature Analysis
			83	Aziz Makandar and Bhagirathi Halalli	Classification of Mass Type Based on Segmentation Techniques with Support Vector Machine Model for Diagnosis of Breast cancer
			108	Sagar Patil and Arun Thorat	Development of Fault Current Limiters: A Review
			118	Omkar Shinde and Vrsv Bharath Pulavarthi	STATCOM Converters and Control: A Review
			119	Sagar Patil and Rajanikant Metri	Power Quality Improvement Using Shunt Active Power Filter
			122	Sujay Madane and Dr.Sanjay Deokar	Harmonic mitigation in traction supply system by using half bridge converter



Paper Presentation at ICDMAI 2017

ate/ Time	Track	Paper No	Author Name	Title	
Day 2: 25-02-2017	11:30 - 13:00 (90 Mins)	Innovations in Electronics and Telecommunication Engineering	2	Rohini Jiwane	Detection of Mechanical Failure on Transformer by Frequency Response
			25	Shriroop Madiwalar and Medha Wyawahare	Plant Disease Identification: A Comparative Study
			61	Sidharth Bhorge and Ramachandra Manthalkar	Histogram of Directional Derivative Based Spatio-temporal Descriptor for Human Action Recognition
			66	Moresh Mukhedkar and Bhavesh Wagh	A 180 nm Efficient Low Power and Optimized Area ALU design using Gate Diffusion Input technique
			82	Aziz Makandar, Anita Patrot and Baby Patrot	Malware Class Recognition Using Image Processing Techniques
			107	Vaibhav Shinde and Mahesh Kulkarni	A Review on Design of Magneto rheological Nano-Fluid
	15:00 - 16:45 (105 Mins)	Innovations in Electronics and Telecommunication Engineering	124	Omkar Prabhune, Pradnya Sabale, Sonawane D. N and Prabhune C. L	Image Processing and Matrices
			128	Tanvi Thakur and Ameya Naik	Traffic density management using Internet of things
			364	Anita Gade	Development of Library Management Robotic System
			411	Pramila Kanawade and Sheetal Gundal	Tree Structured Vector Quantization Based Technique for Speech Compression
			414	Jayesh Pathak and Rekha Labade	Comparative Analysis of Microstrip feed, CPW feed & ACS feed UWB Antenna
			420	Ashish Gupta and Sandesh Jagadish	Machine Learning Oriented Gesture Controlled Device for the Speech and Motion Impaired



Evaluation of Paper Presentation at ICDMAI 2017



Date/Time	Track	Paper No	Author Name	Title	
Day 2: 25-02-2017	11:30 - 13:00 (90 Mins)	Analytics in Computer Engineering and Application	9	Vignesh R and Kumar Rishabh	Recommendation System to Simplify Opinion Formation
			23	Misha Kakkar and Harshita Tanwar	Predicting Future Fund Requirement for Women Empowerment Schemes using Data Analytics
			85	Mohit Gurnani, Yogesh Korke, Sandeep Udmale and Prachi Shah	Forecasting of sales by using fusion of Machine Learning techniques
			94	Neha Sharma, Deepali Sawai and Ganesh Surve	Data Analytics: Impacting Business in Big Way
			113	Reena Bhati, Sunil Sangve and Vidhya Gavali	Intrusion Detection System for Detecting Rogue Nodes in Vehicular Ad-hoc Network
			115	Abdo Guroob and Manjaiah D.H.	Triple integration optimization techniques in data Grid environment using OptorSim simulator
	15:00 - 16:45 (105 Mins)	Analytics in Computer Engineering and Application	314	Satyabrata Maity, Amlan Chakrabarti and Debotosh Bhattacharjee	Block-Based Quantized Histogram (BBQH) for Efficient Background Modelling and Foreground Extraction in Video
			319	Priyanka Sherkhane and Deepali Vora	Survey of Deep Learning Software Tools
			320	Tejaswini Mane	Smart Heart Disease Prediction System Using Improved K-Means and ID3 on Big Data.
			407	Tong Liu, Jasper Mbachu and Anuradha Mathrani	A Preliminary Investigation on Use of Construction Apps in New Zealand
			408	Owais Kazi, Akshat Jain, Shraddha Basantwani and Yogita Bang	Smart Surveillance Monitoring System
			413	Vivek Bardia and Crs Kumar	Process Trees & Service Chains Can Serve Us Better



Evaluation of Paper Presentation at ICDMAI 2017

Date/Time	Track	Paper No	Author Name	Title	
Day 2: 25-02-2017	11:30 - 13:00 (90 Mins)	Data Management in Functional Areas	29	Avinash Shivdas and Sougata Ray	Resource Utilization by Pharmaceutical Companies in India: Emphasis on R&D, Labor and Capital
			84	Sangeetha Gunasekhar and Sofi Dinesh	The impact of corporate governance and firm performance on chief executive officer's compensation: Evidence from central state owned enterprises in India
			120	Vishnu Tharavath, Deepak Gupta and Dr.Sangeetha Gunasekar	Factors Influencing Choice of Cuisines While Indian Consumers Eat Out
			133	Vishnu S Nair, Deepak Gupta and Sangeetha Gunasekar	Influence of Values on Quality Consciousness among Indian Consumers
			215	Vaibhav Kulkarni	An Exploratory Critical Theoretical Review of the Ongoing Theoretical Structure of the Flow of Management-Functions
	15:00 - 16:45	Data Management in Functional Areas	310	Paramita Ray and Amlan Chakrabarti	Twitter Sentiment Analysis for Product Review Using Lexicon Method
			317	Maheshwar Pratap Ms, Sangeetha Gunasekar, Deepak Gupta and Anitha Kaveri	Employment Guarantee Scheme through the Lens of Financial Inclusion
			321	Soni Vivek	Spirituality and Productivity - A Relationship Perspective
			360	Debarati Maiti, Deepti Rajagopal, Akankshya Kar, Pravin Bhaskar Ramteke, Shashidhar G. Koolagudi	Simulation of Cathode Ray Tube
			405	Indu Sofat, Anuradha Mathrani, Chris Scogings, Bo Li	Modular Web Service Design for Agility and Maintainability with Unity Container
e06	Arnab Ghosh Dastidar	Intermittent Demand Forecasting for Long Tail SKU's			



Paper Presentation and Evaluation at ICDMAI 2017

Date/Time	Track	Paper No	Author Name	Title
Day 3: 26-02-2017 14:30 - 16:15 (105 Mins)	Data Analytics in Electrical Engineering	127	Viraj Savakhande, Chandrakant Bhattar and Pctejasvi Bhattar	Voltage-lift DC-DC Converters for Photovoltaic Application-A Review
		136	Shridhar Kulkarni, Ajinkya Parit, Vrsv Bharath Pulavarthi and Sagar Patil	Comparative analysis of Three phase, Five phase and Six phase symmetrical components with MATLAB
		137	Amol Koshti and Mayuresh Rao	A Brief review on multilevel inverter topologies
		154	Sumit Patil and Vaiju Kalkhambkar	Hybrid Space Vector Pulse Width Modulation Voltage Source Inverter - A Review
		417	Chandrakant Kulkarni	A Novel Method for Evaluating Intercept Factor of Solar Line Concentrator System
		313	Mrinal Patil, Surekha Deshmukh and Ritu Agrawal	Electricity Price Forecasting Using Data Mining Technique
	Innovations in Electronics and Telecommunication Engineering	421	Prashant Salunke and Jui Kate	Advanced Smart Sensor Interface in Internet of Things for Water Quality Monitoring
		428	Bhushan Mahajan, Anjali Mahajan and Achamma Thomas	Co-operative push back Streaming and Routing in WSN
		55	Gauri Joshi and Nilesh Bhosale	Video Compression Using DWT algorithm implementing on FPGA
		114	Sandesh Ghate, Guntis Kulikovskis and Dr.Vivekananda Shanmuganathan	Design and Development of Soft Actuator for Surgical Application
	Analytics in Computer Engineering and Application	425	Prashant Vats and Raj Kumar Garg	AVINASH – A Three Tier Architectural Metric Suit for the Effort Estimation in Testing of OOS
		426	Asaram Janwale and Santosh Lomte	Enhancement of Cotton leaves images using various Filtering techniques
		e07	Tanashri Karle and Prof.Deepali Vora	Privacy Preservation In Big Data Using Anonymization Techniques
		139	Rutuja Deshmukh and Balasaheb Jagdale	Design and Development of Privacy Preserving Architecture for Mobile Users
	Data Management in Functional Areas	431	Kiran Pranesh K, Balasubramanian P and Deepti Mohan	The Determinants of India's Implied Volatility Index
		432	Prashant Krishnamurthy, Balasubramanian P and Deepti Mohan	Study On Relationship between Exchange Rate Return and Various Stock Indices Returns
		433	Dhamodharan K, Balasubramanian P and Deepti Mohan	Influence of Yamaganda on Stock Trading behaviour among Nifty 200 stocks: Using minute-wise data
		435	Ankitha Nair, Balasubramanian P and Lakshmi Yermal	Factors Influencing Herding Behavior Among Indian Stock Investors
		436	Nikita B, Balasubramanian P and Lakshmi Yermal	Impact of Key Macroeconomic Variables of India and USA on Movement of the Indian Stock Return in case of S&P CNX Nifty

Track wise **Best Papers Awards** were announced during the valedictory function:-

Track - 1: Data Analytics in Electrical Engineering

Paper\_Id. 75:- Sourabh Jalnekar

Track - 2: Electronics and Telecommunication Engineering

Paper\_Id\_421:- Jui Kate

Paper\_Id\_414:- Jayesh Pathak

Track - 3: Analytics in Computer Engineering and Application

Paper\_Id\_314:- Satyabrata Maity

Paper\_Id\_115:- Abdo Guroob

Track - 4: Data Management in Functional Areas

Paper\_Id\_29:- Sougata Ray

Paper\_Id\_405:- Indu Sofat

Paper\_Id\_88:- Ravindra Gadge

Special Consolation Prizes:

Paper\_Id\_433:- Dhamodharan K

Paper\_Id\_436:- Nikita B

Paper\_Id\_360:- Debarati Maiti, Deepti Rajagopal, Akanshya Kar

### **13. ECONOMIC IMPACT**

The proper financial planning and tight control over expenditure, without compromising on quality has made ICDMAI 2017 truly successful.

Total expenses of the conference - **Rs.9,51,875.00**

<b>Activity</b>	<b>Amount [in Rs.]</b>
Delegate Acquisition (Collaterals Design, Website Design, Email Blast)	Rs.125,000/-
Conference Set-up	Rs.167,266 /-
Guest Travel and Accommodation	Rs.333,720/-
Food and Banquet	Rs.121,268/-
Gifts and Awards	Rs.23,154/-
Conference Kit	Rs.12,937/-
Abstract Book and Proceeding in CD	Rs.35,172/-
Photography	Rs.9,200/-
Management Fee (@15%)	Rs. 124,158/-
<b>Total Budget</b>	<b>Rs.9,51,875/-</b>

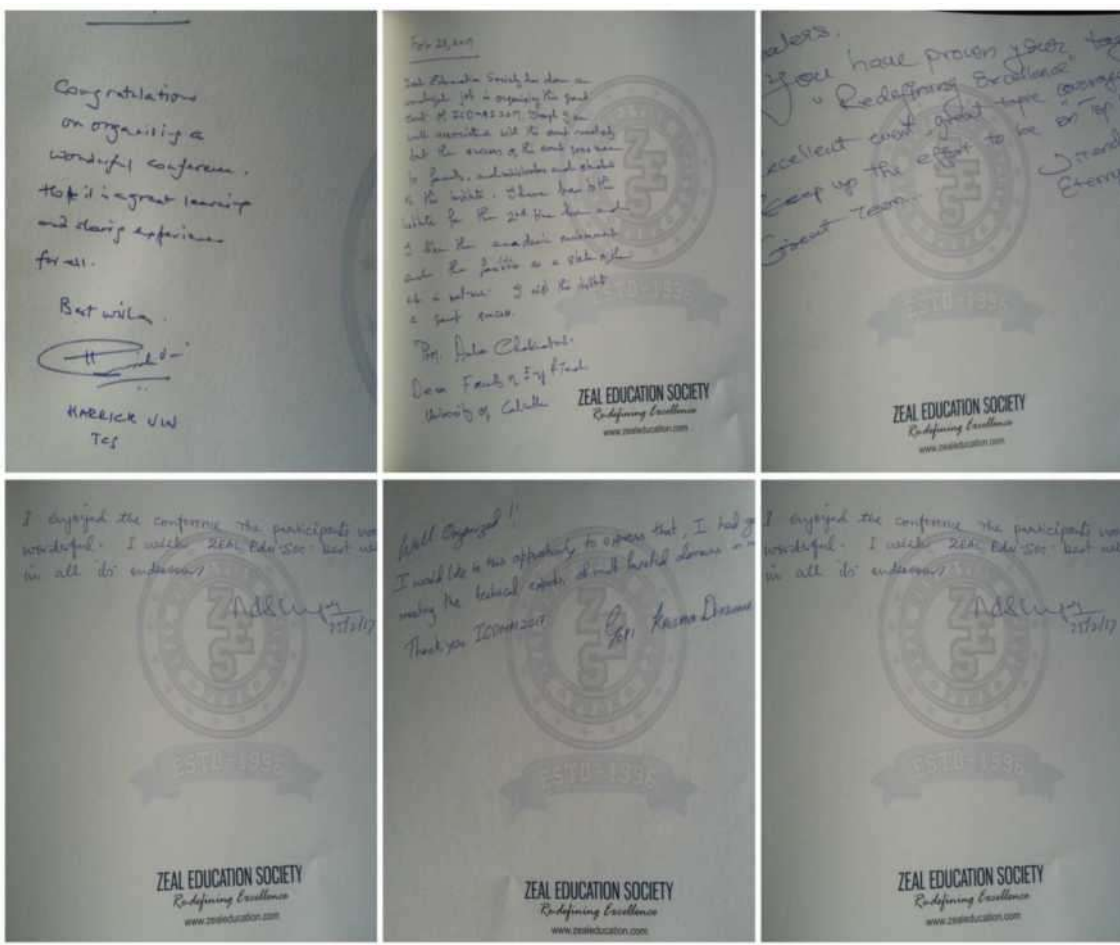
Income from On-line Registration – **Rs.524701.00**

On-Site Registration – **Rs.26200.0**

## 14. FEEDBACK

Obtaining feedback from the conference guests/delegates helps the organizer of the conference to strengthen the retrospection aspects to conduct similar kind of event in future. The feedback that we received from all the conference participants was overwhelming and the same has been compiled and depicted in below given table which was collected through the feedback form.

Category	About conference theme, arrangements, guest speakers, etc.	Ideas / improvements for the next conference	Overall remarks
Guests	Innovative ideas discussed, Excellent arrangements	Separate track for research scholars & students	Excellent Event Management, Cohesive Team
Paper Presenters	Very much contemporary Conference, Excellent keynote speakers, overall good arrangements	More time for presentation, Inclusion of Panel Discussion	Overall very good Experience



Feedback and Testimonial by Guests and Delegates at ICDMAI 2017

The conference was well organized and the quality of participants was higher than my expectations. The intention was good.

All the best & prosperity

ESTD - 1996

Indira Soffat  
Mansy Dhan  
New Delhi

**ZEAL EDUCATION SOCIETY**  
Redefining Excellence  
www.zealeducation.com

It has been my pleasure to be part of International E-Data Analysis, Management & Innovation which is very apt to the present day & future requirement of the world.

I express my gratitude to the Exec. Dir, Dir and the Education Society for meticulously planning and conducting the conference which has been a big success.

God bless the ZEAL Education Society &

Keep doing good work in the field of Education & Skill Development.

God Speed

ESTD - 1996

26/6/2017

**ZEAL EDUCATION SOCIETY**  
Redefining Excellence  
www.zealeducation.com

Having a happy moments in our life is a matter of destiny is a matter of opportunity. Really I have enjoyed the excellent program and participating through from the distinguished delegates through out the ICDMAI 2017, especially from ZEAL EDUCATION SOCIETY. I learn for good ideas & innovation to the society through the

Obheemata Institute

ESTD - 1996

**ZEAL EDUCATION SOCIETY**  
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ESTD - 1996

**ZEAL EDUCATION SOCIETY**  
Redefining Excellence  
www.zealeducation.com

Thanks to Prof. Anjan Chakrabarti for his kind invitation to present the emerging changes and data interpretation in India.

Dr. Anjan Chakrabarti  
University College Durgam  
School of Computer Science  
College of Science  
Deccan

ESTD - 1996

**ZEAL EDUCATION SOCIETY**  
Redefining Excellence  
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ESTD - 1996

Indira Soffat  
Mansy Dhan  
New Delhi

**ZEAL EDUCATION SOCIETY**  
Redefining Excellence  
www.zealeducation.com

I am here for the first time and accept it with pleasure to the conference held by a great person - Hon. Dr. Anjan Chakrabarti, a great mind, you invited in the conference. I am very surprised by the team work of the committee.

I am p. very surprised by the team work of the committee.

gratulations

26/2/17

ESTD - 1996

**ZEAL EDUCATION SOCIETY**  
Redefining Excellence  
www.zealeducation.com

I am p. very surprised by the team work of the committee.

gratulations

26/2/17

ESTD - 1996

**ZEAL EDUCATION SOCIETY**  
Redefining Excellence  
www.zealeducation.com

It is an honor to be part of the team members of Zeal, it is an opportunity to connect with so many experts from all over the world. I am very surprised by the team work of the committee.

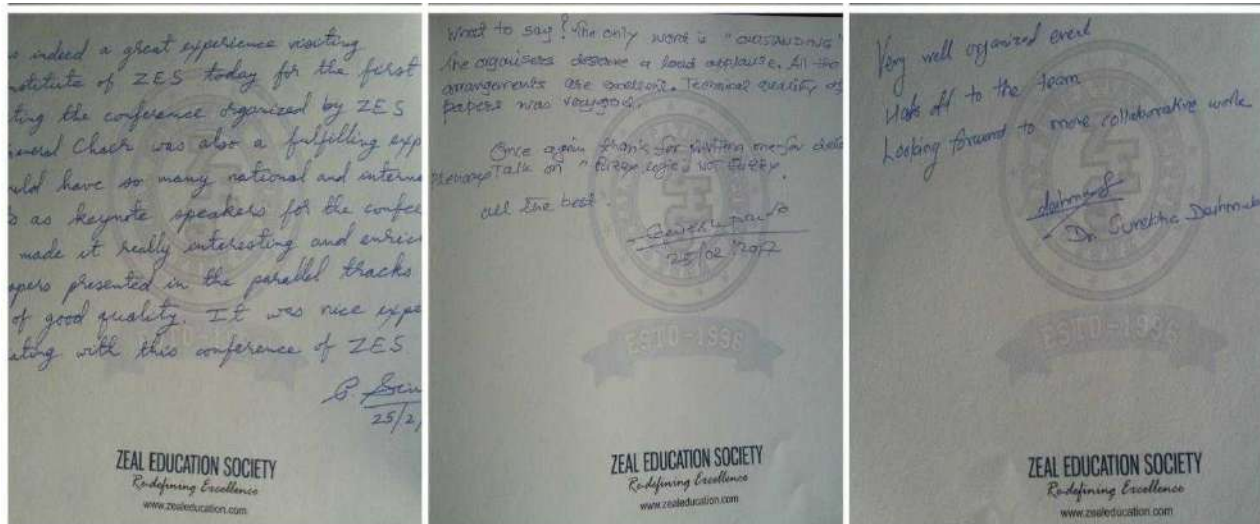
gratulations

26/2/17

ESTD - 1996

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**Feedback and Testimonial by Guests and Delegates at ICDMAI 2017**



**Feedback and Testimonial by Guests and Delegates at ICDMAI 2017**

**Takeaways from the International Conference for ZIBACAR**

**Students:**

The students and research scholars got the exposure to various national and international guests and speakers. Some of the student’s volunteers also got the opportunity to have one-to-one (face-to-face) interaction with all the invited speakers of the conference.

**Faculty Members:**

Faculty got the opportunity to exchange their knowledge, thoughts, innovations and research experiences in the broad field of Data Management, Analytics and Innovation on the common platform along with the renowned academic experts from India and abroad. Thought provoking discussion and interaction with the keynote speakers of international repute and the delegates from different parts of the country by ZIBACAR faculty, had already sown the seeds which will start sprouting in due course by way of academic and research collaborations, faculty exchange, invited talks, panel discussion events, etc. All abstracts presented by the faculty members were published in the conference CD with ISBN No. and will be soon published world most read digital resource, IEEE XPLORE.

**ZIBACAR:**

The conference organized by the Institute has further strengthened the overall brand image across globe. The Institute could successfully make a mark of its Excellence and has become a talk of the town for holding this prestigious event.

## 15. MEDIA COVERAGE



# ‘झील’मध्ये डेटा मॅनेजमेंटविषयी परिषद

पुणे : झील एज्युकेशन सोसायटी आणि आयईईई पुणे विभाग यांच्या संयुक्त विद्यमाने नुकतेच येथे ‘डेटा मॅनेजमेंट, ॲनॅलिटिक्स अॅण्ड इनोव्हेशन’ या विषयावरील तीन दिवसीय आंतरराष्ट्रीय परिषदेचे आयोजन करण्यात आले.

या परिषदेला प्रमुख पाहुणे म्हणून रुमानियातील विद्यापीठाच्या डॉ. वॅलेंटीना बलस उपस्थित होत्या. डॉ. पी. के. सिन्हा, कुलगुरू व संचालक, डॉ. एस. पी. मुखर्जी (इंटरनॅशनल इन्स्टिट्यूट ऑफ इन्फॉर्मेशन टेक्नॉलॉजी रायपूर), प्रा. जी. एस. मनी (अध्यक्ष

आयईईई पुणे विभाग) डॉ. हॅरीक वीन (ग्लोबल हेड इनोव्हेशन अॅण्ड ट्रान्सफॉर्मेशन, टीसीएस), डॉ. अमलान चक्रवर्ती, (डीन, अभियांत्रिकी विभाग, कलकत्ता विद्यापीठ), डॉ. नेहा शर्मा (संचालक, झील इन्स्टिट्यूट ऑफ बिझनेस अॅडमिनिस्ट्रेशन कॉम्प्युटर ॲप्लिकेशन अॅण्ड रिसर्च) हे यावेळी उपस्थित होते. या परिषदेला संस्थेचे संस्थापक संभाजीराव काटकर आणि कार्यकारी संचालक जयेश काटकर यांचे बहुमूल्य मार्गदर्शन झाले.

‘डेटा ॲनॅलिसिस व नवनिर्मिती ही काळाची गरज असून त्याद्वारे अचूक माहिती मिळवता येते, असे जयेश

काटकर यांनी सांगितले. या परिषदेसाठी ४५० पेक्षा जास्त शोधनिबंध पाठवण्यात आले होते, त्यापैकी फक्त १५ टक्के शोधनिबंधांची सादरीकरणासाठी निवड करण्यात आली. २०० शिक्षणतज्ज्ञ, संशोधक, उद्योग क्षेत्रातील तज्ज्ञ व विद्यार्थी परिषदेमध्ये सहभागी झाले होते. परिषदेमध्ये डॉ. रघुनाथ शेवगावकर, डॉ. अशोक देशपांडे, डॉ. के. सुब्रमनियन, डॉ. लखमी जैन, डॉ. एलेनी मॅजीना आदी मान्यवरांनी सहभागींना संबोधित केले. या परिषदेदरम्यान डीआरडीओ आणि एनडीए यांच्यामार्फत रोबोटीक्सची प्रात्येक्षिके सादर करण्यात आली.

## तीन दिवसीय आंतरराष्ट्रीय परिषदेची सांगता

झील एज्युकेशनतर्फे होते आयोजन

सिंहगड रोड, वि. २८ (प्रतिनिधी) - आयईईई पुणे सेकान आणि झील एज्युकेशन सोसायटी नव्हे पुणे यांच्या संयुक्त विद्यमाने २५ फेब्रुवारी २०१७ रोजी “इंटरनॅशनल कॉन्फरन्स ऑन डेटा मॅनेजमेंट, ॲनॅलिटिक्स अॅण्ड इनोव्हेशन” या तीन दिवसीय आंतरराष्ट्रीय परिषदेचे उद्घाटन करण्यात आले. परिषदेसाठी ४५० पेक्षा अधिक शोधनिबंध पाठवण्यात आले होते, त्यापैकी फक्त १५ टक्के शोधनिबंधांची सादरीकरणासाठी निवड करण्यात आली. सुमारे २०० शिक्षणतज्ज्ञ, संशोधन विद्वान, उद्योग क्षेत्रातील तज्ज्ञ व विद्यार्थी या परिषदेमध्ये सहभागी झाले होते.

डेटा ॲनॅलिसिस व नवनिर्मिती ही सध्याच्या काळाची गरज असून त्याद्वारे अचूक माहिती मिळवता येते हे लक्षात घेऊन ही परिषद घेतली

गेली. परिषदेसाठी भारतातील विविध भागातून तसेच भारताबाहेरूनही अमेरिकेला, अमेरिका, आयर्लंड, न्यूझीलंड, रोमानिया, नायजीरिया, जपान अशा आठ देशातील कवस्थांनी व श्रोत्यांनी सहभाग घेतला. अगोप्यरी डॉ. नेहा शर्मा यांनी परिषदेकडल दिली. पी. के. सिन्हा म्हणाले, डेटा ॲनॅलिसिस व नवनिर्मिती हे भारतीय आर्थीक इन्स्ट्रुमेंटचे प्रमुख मार्गचिह्न आहेत. विशेष म्हणजे प्रा. जी. एस. मनी यांनी इज्युक्युटीसी वरील हल्ला व नगणती दुप पितो या दोन उदाहरणांद्वारे डेटा ॲनॅलिसिस व नवनिर्मितीचे महत्त्व सांगितले. डॉ. हॅरीक वीन यांनी ही परिषद आर्थीक केंद्रवाकल संस्थेचे फौतुक केले.

या आंतरराष्ट्रीय परिषदेमध्ये अनेक मान्य वक्तव्यांनी सहभागींना संबोधित केले. आषआषाष



पुणे : तीन दिवसीय आंतरराष्ट्रीय परिषदेचे उद्घाटन करताना मान्य वर व झील एज्युकेशन संस्थेचे पदरथ.

दिल्लेचे माजी संचालक डॉ. रघुनाथ शेवगावकर, बकलेले इनिशिएटिव्ह इन सोल्यूट कॉन्सुल्टिंगचे संस्थापक अध्यक्ष डॉ. अशोक देशपांडे, डॉ. के. सुब्रमनियन, कॅनबेरा विद्यापीठ अॅनॅलिस्टाचे डॉ. लखमी जैन, डॉ. एलेनी मॅजीना, युनिव्हर्सिटी कॉलेज, आयर्लंड आदी मान्यवरांनी संबोधित केले. डॉ. अमलान चक्रवर्ती, डॉ. मानसी पटवर्धन, चॅरी आय टी पुणे, डॉ. सुखदा देशमुख, डॉ. शशिधर

एनआयटी कर्नाटक, आरईईई चे वरीष्ठ सदस्य डॉ. गोपीकृष्ण दुर्गाकर, चेतन्य पंत्या प्रोजेक्ट मॅनेजर, इटर्नॅस सोल्यूशन, कर्नल इंटरवॉल सिंग, आयईईई चे पुणे विभाग प्रमुख प्रा. जी. एस. मनी या मान्यवरांनी टक्करीअल सेवान मध्ये सहभागींना संबोधित केले.

या आंतरराष्ट्रीय परिषदेमध्ये अॅपिचॉत्रिकी व व्यवस्थापन क्षेत्रातील माहिती विस्तरेण व नवनिर्मिती

व्यवस्थापन विषयक विषयंवर लक्ष केंद्रित करण्यासाठी शिक्षणतज्ज्ञ, संशोधन विद्वान, उद्योग क्षेत्रातील तज्ज्ञ व विद्यार्थी यांच्यासाठी एक व्यासपीठ उल्लस्य करून देण्यात आले. परिषदेदरम्यान डीआरडीओ आणि एनडीए यांच्यामार्फत रोबोटीक्सची प्रात्येक्षिके करून दाखवली. तसेच मान्यवरांनी स्मार्ट सीटीकल चर्चा केली. उत्कृष्ट शोधनिबंधांची प्रमाणपत्रे देण्यात आली.



## आयईईई आंतरराष्ट्रीय परिषद आयसीडीएमएआय २०१७



आयईईई पुणे सेक्शन आणि झील एज्युकेशन सोसायटी न-हे पुणे यांच्या संयुक्त कॉन्फरन्स ऑन डेटा मॅनेजमेंट, ऑनॅलिटिक्स अँड इनोव्हेशन" या तीन दिवशीय आंतरराष्ट्रीय परिषदेचे उद्घाटन झाले. या परिषदेला संस्थेचे संस्थापक श्री संभाजीराव काटकर आणि कार्यकारी संचालक श्री जयेश काटकर यांचे बहुमूल्य मार्गदर्शन झाले. या परिषदेला प्रमुख पाहुणे म्हणून डॉ. वॅलेटीना बलस, अरड विद्यापीठ, रोमानिया उपस्थित होत्या. तर डॉ. पी.के. सिन्हा, कुलगुरु व संचालक, डॉ. एस.पी. मुखर्जी इंटरनॅशनल इन्स्टिट्यूट ऑफ इन्फॉर्मेशन टेक्नॉलॉजी रायपूर, प्रा. जी.एस.मनी, अध्यक्ष आयईईई पुणे विभाग, डॉ. हॅरीक वीन, ग्लोबल हेड इनोव्हेशन अँड ट्रान्सफॉर्मेशन टीसीएस, डॉ. अमलान चक्रवर्ती, डीन, अभियांत्रिकी, विभाग, कलकत्ता विद्यापीठ, डॉ. नेहा शर्मा, संचालक झील इन्स्टिट्यूट ऑफ बिझनेस अँड मिनिस्ट्रेशन कॉम्प्युटर ॲप्लिकेशन अँड रिसर्च, हे उपस्थित होते.

Annexure A



International Conference on  
Data Management, Analytics & Innovation

24 - 26 February 2017

Zeal Education Society, Pune, Maharashtra, India



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## Annexure B

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**Conference Record Number:** 39685

**Conference Title:**

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