

## IEEE UP Section Events

### UPCON-2018: 5th IEEE UP Section International Conf. on Electrical, Electronics and Computer Engg.



The 5<sup>th</sup> IEEE UP Section International Conference On Electrical, Electronics and Computer Engineering , ÜPCON-2018” was organised on November 2-4, 2018 jointly by Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh and University of the Ryukyus, Okinawa, Japan in the Campus of Madan Mohan Malaviya University of Technology, Gorakhpur.

The inaugural Session was opened with address by Vice-Chancellor of the University and General Chair of the conference Dr. S N Singh welcoming special guest Mayor of Gorakhpur City Sri Sitaram Jaiswal and Sri Madhusudan Gulati, chief guest Prof. P. Nagabhushan, Director IIIT Allahabad, Prof. Tomohisa Wada, Department of Information Engineering, University of the Ryukyus, Okinawa, Japan and other delegates. Other delegates, plenary speakers, Keynote speakers and Session Chairs include:

1. Prof. (Dr.) Jay Giri, Ex. Director, PSTSI at GE Grid Software Solutions, Washington USA
2. Dr. Kang Dongshik, Faculty of Engineering, University of the Ryukyus, Japan
3. Dr. Bhim Singh, HAG Professor, Department of Electrical Engineering, IIT Delhi , India
4. Prof G C Nandi, Professor (HAG) IIIT, Allahabad, India
5. Dr. Kumar Vaibhav Srivastava, Department of Electrical Engineering, IIT Kanpur, India
6. Prof John Thompson, School of Engineering, The University of Edinburgh, UK
7. Dr. Masato Saito, Faculty of Engineering, University of the Ryukyus, Japan
8. Prof. (Dr.) Vassilios Agelidis, Professor, Technical University of Denmark (DTU), Denmark
9. Dr Aristides Kiprakis, University of Edinburgh, UK
10. Dr. Yogesh Singh Chauhan, Department of Electrical Engineering, IIT Kanpur, India
11. Dr Naran M. Pindoriya, Department of Electrical Engineering, IIT Gandhinagar, India
12. Professor Asheesh Kumar Singh, MNNIT Allahabad, India
13. Dr. Seema Awasthi, IIIT Allahabad, India
14. Dr. Satish Kumar Singh, IIIT Allahabad, India
15. Dr. Dilip Kumar Sharma, GLA University, Mathura, India
16. Dr. Aseem Chandel, REC Manपुरi, India
17. Dr. Vinay Rishiwal, MJP Rohilkhand University, Bareilly, India

We received total 551 papers and 62 thesis for Ph.D. Symposium. The 244 papers were presented in 6 parallel technical sessions in total 33 sessions, The 11 Ph.D. thesis were presented in one Symposium session. There were 3 special sessions including one Women in Engineering (WIE), one IEEE Special Interest Group on Humanitarian Technology (SIGHT) and one Young Professional (YP) session. In each technical session one paper was awarded the best paper. Three Ph.D. thesis were awarded with 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> prizes with citation and cash prize of Rs. 8000/-, Rs. 5000/- and Rs. 3000/- respectively.

This conference was the biggest ever event organised by MMMUT, Gorakhpur. It became memorable for attendees and delegates after evening cultural program “Phoolon ki holi” performed by specially invited artists from Mathura on first day and “Kavi Sammelan” had been the evening attraction on second day of the event. The Valedictory Session was presided over by Vice-Chancellor Dr. S. N. Singh with gracious presence of IEEE Region 10 Director-Elect-2019 Sri Deepak Mathur and Dr. Bhim Singh, HAG Professor & Dean, IIT Delhi, India.

*Report by: Dr. Prabhakar Tiwari*

## CCTES-2018: International Conference "Computational and Characterization Techniques in Engineering & Sciences"



institutions from all over the Indian subcontinent.

The latest iteration of the IEEE International Conference on Computational and Characterization Techniques in Engineering & Sciences was organized by the Dept. of Electronics and Communication, Physics and Electrical Engineering, during 14-15, Sep 2018 at Integral University, Lucknow. The conference was attended by eminent academicians, faculty members, professionals, and students from various universities and representatives of government

The Conference started with the welcome address by Prof. S.Hasan Saeed (Conference General Chair, Head Electronics Department), who also briefed about the achievements of Integral University in the fields of research and technology. Dr. Nadeem Akhtar (Dean Engg., Director Planning & Research) shared his views on how CCTES has been an important part of Integral University. Prof. Aqil Ahmad (Vice-Chancellor), added towards the influence of CCTES, and how it encourages the different flows of ideas. Our Honble' Chancellor Prof. S.W. Akhtar, described how Integral University has had been carrying out the legacy of hosting the CCTES and its success.

The Conference was then addressed by guest Prof. Ing Sian Lun Lau Sian (Associate Dean, (Academics) Malaysia), and the Guest Of Honor, Dr. Khalid Khan, (CEng, Bombardier Transportation, Derby, UK), who were extremely grateful to be a part of it, and then all gathered for the release of the CCTES 2018 Souvenir, and furthermore mementos were presented as a token of gratitude felt. Prof. Monauwer Alam (Convener, Head Electrical Department) proposed the Vote of Thanks.

In the conference papers were presented in 7 major tracks:

- Advanced Computing, Software Engineering and IOT
- Data Communication and Signal Processing
- Electronics and Communication
- SS Application of Power Electronics in Renewable Energies
- Power Engineering, Digital Control System and Materials
- Renewable and Sustainable Energy
- Cybersecurity and IPR.

On 15th September, in the keynote address, Prof. Ekram Khan (AMU, Aligarh) described the Advancements of Digital Signal Processing, along with the Scope of IOT in the field of Agriculture, Temperature Monitoring. Prof. Ekram Khan, further talked about the Image Processing Devices and the typical encoders used, however his sheer focus was on the emerging trends of the digital signal & image processing. While concluding his keynote, he asked a very subtle yet impactful question, quoting "Everybody has a smartphone today, but do you even know why you have one? Do you even need one?"

In the conf. the papers were presented on topics that ranged from, Data Communications to Signal Processing, to Renewable Energy systems to Control Systems and IPRs. Every single paper presented here, had an edge over each other, as they all had described the emerging trends successfully, even explaining scenarios that have raised attention, as well as criticizing the existing methods and how they can be evolved, furthermore detailed surveys had an expert side to itself, as they were rich in data that had already been analyzed by the experts and were true to its form. A Skype Presentation session was also held that focused on authors presenting the Recent Trends of either tracks, showcasing a few newer methods that improved application of subjects, and deep surfaced reviews.

At the valedictory session, mementos were presented to best papers in all the seven tracks of the conference. The conf. came to an end with the vote of thanks by Dr. Imran Ullah Khan, Conference Chair & Organizing Secretary.

*Report by: Dr. Imran Ullah Khan*

Shares of the world's first trillion-dollar public company, Apple, have fallen over 38% between October 2018 and January 2019, costing it over \$450 billion in market capitalisation. CEO Tim Cook recently cut Apple's quarterly revenue forecast for the first time in nearly 20 years, adding the company expects to make \$84 billion, lower than the previous estimate of \$89-93 billion.



The second edition of the conference CICT'2018 held at PDPM IIITDM Jabalpur during 26-28 October 2018. CICT is a joint annual event of the four centrally funded Indian Institute of Information Technology (IIITs) viz. ABV IITM Gwalior, IIT Allahaabad, PDPM IIITDM Jabalpur, and IIITDM Kancheepuram. CICT is focused on information & communication technology (ICT) domain and provides a forum to professionals from industry, academia, government agencies and other institutions to exchange their latest research information and ideas in the field of ICT. CICT'2018 is technically sponsored by IEEE Bombay Section, IEEE UP Section, IEEE Madras Section, IEEE MP-Subsection, IEEE UP Section SP/C Joint Chapter and IETE Gwalior Sub-Centre. The conference is also financially sponsored by Brahmos Aerospace, MP Council of Science and Technology (MPCST) and IETE Gwalior Sub-Centre. The technical program of CICT'2018 features an array of keynote talks by eminent experts in the field of ICT along with two Tutorial Sessions, and a Women in Engineering (WiE) mini conference. The Conference also had a PhD symposium for providing a platform for recently graduated students to showcase their PhD work.

In the CICT2018, original unpublished research papers were presented in the following eight tracks:

- Track 1: Signal and Image Processing
- Track 2: Communication Systems
- Track 3: Networks and Information Security
- Track 4: Electronic Devices and Circuits
- Track5: Computational Intelligence & Machine Learning
- Track 6: Cloud and Big Data Management
- Track 7: Computer and Software Systems
- Track 8: Robotics and Control

The conference received total 143 papers in all the tracks out of which 82 papers were accepted for the presentation during 20 technical sessions of the conference. CICT2018 also witnessed 06 Keynote speeches by the eminent researchers of India and Abroad. The details of Keynote speeches are given below:

1. "Advances in C4I" by Dr. Sudhir Kumar Mishra, CEO & MD, BrahMos Aerospace.
2. "Geometric Modeling and Image Processing as Visual Informatics" by Prof. Yasushi Yamaguchi, University of Tokya, Japan.
3. "Modelling and analysis of communication systems with energy harvesting" by Prof. Vinod Sharma, IISc, Bangalore, India.
4. "Role of NPCIL simulation technologies in Nation building" by Ms. Lipika Behl, Chief Engineer (Scientific Officer-H+), NPCIL.
5. "Machine Learning in Speech Processing" by Dr. Sunil Kumar Kopparapu, Principal Scientist, TCS Research & Innovation, Mumbai.
6. "Data-driven Performance Optimization for IoT Communications" by Prof. Swades De, Department of EE, IIT Delhi.

CICT'2018 also featured two tutorials on "Visualizing Feature Extraction and Classifier Design: An Application to Face Recognition" by Prof. Jamuna Kanta Sing, Jadavpur University Kolkata and "Introduction and Applications of Deep Learning" by Prof. Shekhar Verma, IIT Allahaabad along with the PhD. Symposium in which two PhD thesis were awarded with First and Second Best PhD Thesis Award.

*Report by: Dr. Matadeen Bansal*



IEEE sponsored 3-days International Conference on “Advances in Computing, Control & Communication Technology (IAC3T-2018)” under the aegis of IEEE University of Allahabad Student Chapter was organized during September 21-23, 2018 at the Centre of Computer Education, Institute of Professional Studies, and University of Allahabad. This Conference has been technically sponsored by IEEE Computer Society, IEEE Signal Processing Society UP Section and IEEE Computational Intelligence Society UP Section. In the Conference, papers were invited under five tracks, namely, Communication Technology, Electronics and Control Systems, Software Engineering and Multimedia, Intelligence System and Advanced Computing. Total 24 quality papers in these areas were sorted out to be presented in four Technical Sessions. Eight keynote addresses were delivered by eminent speakers such as Prof. D.C. Pande, Distinguished Scientist, DRDO, Bengaluru; Dr. R.K. Sharma, Director, SSPL, DRDO; Dr. Narain Panigrahi, Distinguished Scientist, CAIR, DRDO; Prof. Subarna Shakya, Tribhuvan University, Nepal; Prof. Rubaiyat Yasmin and Prof. Mirza, University of Rajshahi, Bangladesh; Dr. Sandeep Paul, Dayalbagh Educational Institute, Agra and Dr. Tanveer J. Siddiqui, University of Allahabad.

A Software Development Competition under various themes such as Brain Inspired; Knowledge & Reasoning Based; Motion & Manipulation Based; Natural Language Processing Based; Spam Detection; Automated Governance through Improved Learning and Recommender System was also held.

The Conference began with a Tutorial on “Knowledge Based System Design” by Prof. Anupam Agarwal of IIT, Allahabad which covered the basics of Artificial Intelligence and the Demo Session providing glimpse of how an expert system should be designed.

In the Inaugural session, the chief guest, Prof. D.C. Pande, Distinguished Scientist, LRDE, DRDO said that tremendous growth has taken place in the field of Communication Technology. Mobile has reached every household and we are exploiting that region of electromagnetic spectrum which was not yet touched. At the same time it has thrown lot many challenges as a health hazard. So, it is realized that it has to be used in a limited way to avoid any serious health problem.

Dr. R.K. Sharma, Director, Solid State Physics Lab, DRDO, Guest of Honour said that all our activities are being governed and monitored by the cyber space. Battle space and cyber space has conversed because of all these three factors that have been taken up in the Conference i.e. Computing, Control and Communication. He said that it is required that the South Asian countries collectively look at its control in this direction. Prof. Rajeev Tripathi, Director, MNNIT talked about advances that have taken place in the abovementioned areas. He emphasized that ideas must not be limited by any kind of tool including the simulation tool. The Welcome Address was delivered by Prof. R.R. Tewari, General Chair, IAC3T-2018. The Vote of Thanks was delivered by Prof. Vivek Kumar Singh from BHU, Varanasi.

The Conference was well attended by around 50 delegates and experts from different Universities and eminent Technical organizations from India and IEEE University of Allahabad Student Chapter.

*Report by: Rajiv Ranjan Tewari*

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US-based startup Volo Beauty showed a ₹28,000 cordless hair dryer at ongoing technology event CES 2019 in Las Vegas, which uses infrared bulbs and radiant heat to dry hair. Its maker claims the dryer cuts down frizziness and the time taken to completely dry hair. It lasts up to 13 minutes on high heat and 24 minutes on medium.

French startup makes smart glasses to alert sleepy drivers



Two days, IEEE International Conference on Advances in Computing, Communication Control and Networking (ICACCCN-2018), was organized by department of CSE, IT and MCA, Galgotias College of Engineering & Technology, Greater Noida, India during 12-13 Oct 2018. The conference was technically co-sponsored by IEEE U.P. Section

The ICACCCN-2018 provides a rich environment of current & futuristic research topics to the delegates. All research topics were broadly categorized in 10 tracks from the field of Engineering and Sciences.

The technical program was rich and varied with keynote addresses and technical paper presentation sessions. There were 10 Keynote Speaker from National & International reputed Universities, Institutions and Industries, to enlighten the research scholars and participants. In total 42 technical sessions were organized for the paper presentations, including 4 technical sessions via Skype. Paper presentations in each technical session were evaluated by internal and external session chairs.

The conference ICACCCN2018 got tremendous response from all over the world & received over 567 research papers from more than 15 countries. All these submissions & review process were done through on line Easy Chair software. All the papers gone through rigorous review process & were reviewed by three reviewers. Reviewers from different countries participated in this review process & contributed significantly by providing their valuable review comments. After quality filtration by review committee, 245 papers were accepted & 225 papers were registered for final presentation. All the papers were checked through plagiarism detector software Turnitin.

Apart from this, two workshops were organized in the field of Computer Science & Engineering. One workshop was organized on the "IOT- Internet of Things" and another workshop on the "Machine Learning". Around 50 delegates participated in these workshops. More than 300 delegates participated in conference including, Authors, Co-Authors and Attendee (Conference and Workshop). The conference was stimulating, vibrant, constructive and well organised.

*Report by: Prof. (Dr.) Vishnu Sharma*

South Korean startup The Little Cat showed its nearly ₹1.2-lakh smart cat treadmill to keep pet cats fit in the ongoing technology event CES 2019 in Las Vegas. The wheel-shaped device uses LED lights, which move along the centre of the ring, encouraging cats to follow it. The device can be controlled by users through a connected app.

Japanese startup mui Lab showed its smart wooden plank that can play music at the ongoing technology event CES 2019 in Las Vegas. The touch-sensitive smart plank lets users adjust the temperature and use Google Assistant through its interface. The device also gives users the option to display text responses instead of audio responses.

Infosys Co-founder Narayana Murthy has said that technologies like AI won't render people jobless in future but create more opportunities. Giving the example of the UK, the US and Japan, he said, "[T]hose countries that absorb technology more enthusiastically, have reduced their unemployment much more than those which didn't".

## IEEE Day Celebrations at Rajkiya Engineering College Mainpuri



IEEE Student Branch, Rajkiya Engineering College Mainpuri celebrated IEEE DAY 2K18 along with the birth anniversary of Mahatma Gandhi and Shri Lal Bahadur Shastri on 2<sup>nd</sup> October which started with the lamp lightening ceremony by Director Prof. Baikunth Nath Rai, Dean of Academics Dr. Aseem Chandel, Mr. Prakash Kumar Singh, Mr. Baljeet Yadav and other faculty members. The event was attended by about 100 members.

The IEEE Day celebration started with cake cutting ceremony and continued with various events. In association with different student branch chapters of IEEE, a “Newsletter Making Competition” with the theme of “GREEN ENERGY, CLEAN ENERGY” was organized to inspire the upcoming generation about the future goals towards Renewable Energy.

A presentation about IEEE and its benefits was given by the Student Activity Convenor U.P. Section Dr. Aseem Chandel for making the students aware about the institute whose core mission is to restore research, innovation, excellence for the benefit of humanity the IEEE “Institute of Electrical and Electronics Engineers.”

The Student Branch Chair, Aman Shah, gave a brief report of the programs and events that had been organized in recent months.



On the same theme, a “Student Solar Ambassador Workshop” was organized in successful collaboration with IIT Bombay under which 40 pre-university students of class 10<sup>th</sup> to 12<sup>th</sup> from different schools like Aman International School Mainpuri, SBRL Academy Mainpuri etc were called for Solar Lamp Making. They had been provided with all the equipment and kit necessary for the construction of a solar - powered lamp along with the solar panel. The students were gifted with their self-made lamps and were made aware about the present innovations in these sectors.

Director, Prof. B.N. Rai appreciated the efforts of IEEE volunteers and Department of Electrical Engineering for organizing such a wonderful techno-social events. The student volunteers are provided with ‘Certificate of Organizing’ for their motivation.

*Report by: Aseem Chandel*



The Department of Electrical & Electronics Engineering of I.T.S Engineering College, Greater Noida hosted an International Conference on “Sustainable Energy, Electronics & Computing Systems, SEEMS-2018” in technical sponsorship of IEEE U.P. Section during October 26-27, 2018. The Conf. was inaugurated by Hon’ble Chief Guest, Prof. Salvatore Baglio, University of Catania, Italy, and Distinguished Keynote Speakers: Dr Jay Giri, Former. Director, GE Grid Software, Dr. Kumar Vaibhav Srivastava, Chairman, IEEE U.P. Section, Dr. Asheesh Kumar Singh, Vice-Chairman, IEEE U.P. Section, Mr. Raghav Agarwal, Director, Rotomag Motors & Controls Pvt. Ltd. Gujrat, Dr. Aseem Chandel, IEEE Conference Observer & Dr. Vikas Singh, Executive Director, I.T.S Group of Education, in the presence of delegates, authors, faculty & scholars.

General Chair, Dr. Monika Jain, Prof. & Head-EEE presented objectives & program highlights of SEEMS-2018. The Executive Director, Dr. Vikas Singh welcomed the gathering. Chief Guest, Prof. Baglio delivered inaugural talk on “Cantilevers, Magnets and Stoppers.. for Vibrational Energy Harvesting and other assorted Zero-Threshold “Diode Less” Applications. It was followed by a Keynote talk of Dr. Jay Giri, on “Managing Uncertainties of the Future Grid: Evolution of EMS Control Centers – PMU Synchrophasor Solutions “Keeping the Lights On! Yesterday, Today & Tomorrow!”

Next to this, a series of Plenary Session talks were delivered by Dr. Kumar Vaibhav, IIT Kanpur, on “Design Challenges of MIMO Antenna Systems for 5G Applications”, Dr. Asheesh Kumar Singh, MNIT Allahabad on “Power Quality Issues: Existing & Emerging Challenges”, Mr. Raghav Agarwal, Rotomag, Gujrat on “Solar Pump: Best Solution with BLDC Motor”. Mr. Akshat Jain, Cyware Labs USA, Bangalore on “Cyber Security in Sustainable Energy Infrastructure”.

It was followed by Skype session talks by distinguished international speakers Dr. Jai Govind , Asian Institute of Technology , Thailand on” Distributed Power Grids: A Future Energy System and Dr. Sheldon S. Williamson, Canada Research Chair, University of Ontario on “Power Electronics Enabled Electrified Autonomous Transportation and E-mobility.

After lunch, authors & research scholars presented their papers under four tracks: Energy, Electronics, Advance Computing & Interdisciplinary in the presence of reputed Session Chairs. A Student Conclave was also organized by IEEE UP Section Student Activity Convener., Dr. Aseem Chandel and Dr Asheesh K. Singh, MNIT-A.

The second day was started with welcome address by General Chair, Dr. Monika Jain followed by tutorial talk of Mr. Saurabh Nishad, CEO, Nexotron Infotech Ltd on “Industrial IoT : Its Vertical Applications in Real Time Systems”. Next Plenary Session:“Cloud Computing Paradigm: Access Control Models” was delivered by Prof. Shabana Mehruz, JMI Central University, India. It was followed by Skype sessions "The role of pneumatic actuation in haptic-enabled VR/AR systems by Dr. Aishwari Talhan, Postdoc Researcher, Kyung Hee University, South Korea,

The conf. ended with a valedictory session chaired by Mr. Nitin Kathuria, the organizing chair of SEEMS-2018 in which Best Papers Award was presented along with certificates for paper presentation to the authors

*Report by: Dr. Monika Jain*

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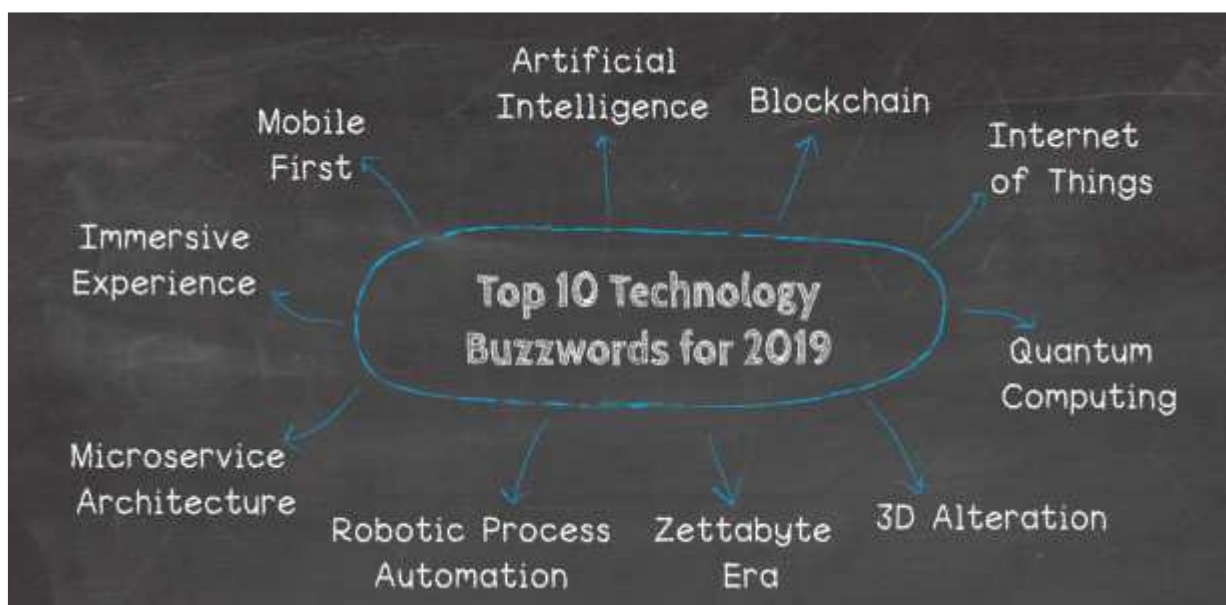
US company Chico's FAS' Soma brand showed a smart bra that can determine its user's "accurate" bra size at the ongoing technology event CES 2019 in Las Vegas. The bra, which is equipped with a measurement sensor and Bluetooth, captures key body measurements when slipped on by a user. It then sends the "accurate" bra size to a connected app.



The 2<sup>nd</sup> 2018 International Conference on “Micro Electronics and Telecommunication Engineering” was held on 20-21 September 2018 at SRM University, NCR Campus, Ghaziabad, Uttar Pradesh,. The conference was technically sponsored by the IEEE UP Section and held in collaboration with IEEE CPS USA. The theme of the conference was chosen to provide a forum for engineers, academicians, scientists and researchers to present the result of their research activities in the field of Micro Electronics and Telecommunication Engineering. The primary focus was to create an effective medium for research and education institutions to share ideas, innovations and problem solving techniques.

The conference sessions included 10 eminent speakers sharing their knowledge and ideas with the group of scholars, faculties and professionals. Out of 134 papers received across the world, 76 papers were accepted and the authors of 68 papers registered at the conf. and 66 papers were presented in nine different tracks.

*Report by: Dr. Rohit Sharma*



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