



General Information

Indian Conference on Signal and Image Processing- (IConSIP-2015) conference was held on 10th & 11th July 2015. This conference brought together an interdisciplinary group of professionals working in the field of Signal and Image Processing, Electronics & Telecommunication, Instrumentation & Control, Computing and Informatics Technologies. Shri Guru Gobind Singhji Institute of Engineering and Technology Nanded had organized a two day “Indian Conference on Signal and Image Processing- (IConSIP-2015)” under Center of Excellence in Signal and Image Processing. The scope of IConSIP-2015 was to provide a national forum for exchange of ideas among interested researchers, students, developers, and practitioners in the areas of signal processing, image processing, computing, communications, and informatics. Overall, it provided educational and informative updates on key domains of engineering and Technology.

Guests and Keynote Speakers:

- Dr. P. B. Vidyasagar, Vice-Chancellor, SRTM University, Nanded.
- Dr. Arun K Pujari, Computer Science at the University of Hyderabad, Hyderabad.
- Dr. Parag Kulkarni, CEO, EKLaT Research Lab, Pune.
- Dr. S. D. Joshi, Professor, IIT Delhi.
- Dr. B. H. Shekhar, Associate Professor, Mangalore University, Mangalore.

Patron:

- Dr. Laxman M. Waghmare, Director, SGGSIE&T, Nanded.

Conference Convener:

- Dr. Ravindra C. Thool, Professor, Department of Information Technology.

Session Chairs:

- Dr. K. K. Bhojar, Professor, Yeshwantrao Chavan College of Engineering, Nagpur.
- Dr. Thippeswamy G., Professor, B. M. S. Institute of Technology, Bangalore.
- Dr. G. V. Chowdhary, School of Computational Sciences, S.R.T.M.U.N, University.
- Dr. S.S. Gajre, Professor, SGGSIE&T, Nanded.
- Dr. S.G. Kejgir, Associate Professor, SGGSIE&T, Nanded.
- Dr. M. B. Kokare, Coordinator Center of Excellence (S&IP) SGGSIE&T, Nanded.
- Dr. A. V. Nandedkar, Associate Professor, SGGSIE&T Nanded.

Participants:

There were in total 35 participants of different Academic Institutes / Universities from India.

Organizing Committee:

- | | | | |
|--------------------|----------------------|--------------------|---------------------|
| • Dr. S.N. Talbar | • Dr. Y.V Joshi | • Dr. B.M. Patre | • Dr. U.V. Kulkarni |
| • Dr. R.S. Holambe | • Dr. D.D Doye | • Dr. S.T. Hamde | • Dr. M.P. Rajurkar |
| • Dr. S.V. Bonde | • Dr. R.R Manthalkar | • Dr. L.V. Birgale | • Dr. A.B Gonde |
| • Dr. A.R. Patil | • Dr. V. R. Thool | | |

The main objectives for conference were the following:

- To promote best practices in aspects of Signal Processing, Image Processing, Electronics & Telecommunication, Instrumentation & Control, Computing and Informatics Technologies.
- Recognize and discuss the multidiscipline determinants of challenges in Engineering and Technologies.
- Participation of Researchers and educators from a wide range of professional disciplines in knowledge transfer.
- Share knowledge and common experiences with others working in the conference domain.

Inauguration cum Opening Ceremony



IConSIP 2015 was commenced with the lighting of the lamp by a group of dignified persons as Honorable Dr. P. B. Vidyasagar , Vice-Chancellor, SRTMU Nanded, Dr. Parag Kulkarni, CEO, EKLaT Research Lab Pune, Dr. S. D. Joshi, Professor, IIT Delhi, Dr. K. K. Bhoyar, Professor, Yeshwantrao Chavan College of Engineering, Nagpur., Dr. G. V. Chowdhary, School of Computation, S.R.T.M.U.N, University, Dr. B. M. Dabade I/C Director SGGsIE&T Nanded, Dr. M. B. Kokare, Professor and Co-ordinator of Center of Excellence (Signal and Image

Processing), SGGsIE&T Nanded , Dr. A. V. Nandedkar, Professor and Coordinator of TEQIP II, SGGsIE&T Nanded., Dr. Ravindra C. Thool Professor, SGGsIE&T Nanded on 10th July 2015.



Conference Convener Dr. Ravindra C. Thool formally welcomed all the dignitaries on the dais and participants from the various parts of the country, colleagues, guests and students. He made audience aware about the IConSIP 2015 Conference objectives.

The opening ceremony included speeches by dignitaries starting with chief guest Dr. P. B. Vidyasagar, Vice-Chancellor, SRTMU Nanded followed by Dr. Parag Kulkarni, CEO, EKLaT Research Lab Pune, Dr. S. D. Joshi,

Professor, IIT Delhi, Dr. B.M. Dabade I/C Director SGGsIE&T Nanded, Dr. M. B. Kokare, Professor, SGGsIE&T Nanded, Dr. Ravindra C. Thool, Professor, SGGsIE&T Nanded.

Key Note Ceremony summary

On first day first key note speech given by Dr. S. D. Joshi , Professor from Indian Institute of Technology, Delhi on Versatility of Multi-rate Banks in domain of Signal Processing. Second key note speech was given by Dr. Parag Kulkarni, CEO of the EKLAT Research Lab, Pune on the topic of Machine Learning and Machine Vision in computer and informatics domain. On Second day first key note speech was given by Dr. B. H. Shekhar, Associate Professor from Mangalore University on topic “Role of computer vision and local/ global descriptors for Computer Vision Application” and second key note speech given by Dr. A. K. Pujari, Professor from University of Hyderabad, Hyderabad on topic of Multiclass Classification using SVM.



Conference Schedule:

Time		Day 1		Day 2	
8:30:00 AM to 10:30:00 AM		Break Fast and Registration		Break Fast and Registration	
10:30:00 AM to 11:00:00 AM		Inauguration		Inauguration	
11:00:00 AM to 12:15:00 PM		Key Note : 1		Key Note :3	
12:15:00 PM to 12:30:00 PM		Tea Break		Tea Break	
12:30:00 PM to 1:45:00 PM		Key Note : 2		Key Note 4:	
1:45:00 PM to 2:30:00 PM		Lunch Break		Lunch Break	
From	To	Track 1	Track 2	Track 1	Track 2
2:30:00 PM	2:45:00 PM	1570164249	1570117699	1570166665	1570163861
2:45:00 PM	3:00:00 PM	1570105893	1570107353	1570109487	1570105761
3:00:00 PM	3:15:00 PM	1570104427	1570104465	1570166669	1570164567
3:15:00 PM	3:30:00 PM	1570109507	1570108795	1570109629	1570175345
3:30:00 PM	3:45:00 PM	1570176555	1570105491	1570109787	1570137351
3:45:00 PM	4:00:00 PM	1570179483	1570109119	1570162487	1570173937
4:00:00 PM	4:15:00 PM	Tea Break		Prize distribution and valedictory	
From	To	Track 1	Track 2		
4:15:00 PM	4:30:00 PM	1570104277	1570164153		
4:30:00 PM	4:45:00 PM	1570111953	1570179467		
4:45:00 PM	5:00:00 PM	1570084481	1570175337		
5:00:00 PM	5:15:00 PM	1570109199	1570109407		
5:15:00 PM	5:30:00 PM	1570105421	1570111483		
5:30:00 PM	5:45:00 PM	1570103263	1570110501		

Paper Session 1

Paper Session 2

Paper Session 3

Key Note

Break

Function



Details of Paper Presented in Conference

Paper ID : 1570164249

Comparative Performance Assessment of Denoising Algorithms for NQR Spectrometer

Manthan Patel, M. Tech. Student, HBNI, Mumbai. **R. T. Keshwani**, Scientific Officer, ACSS, ED BARC, Mumbai. **Preeti Hemnani**, PHD Student HBNI, Mumbai. **Gopal Joshi**, Head ACSS, ED BARC, Mumbai.

Paper ID : 1570105893

Water Quality Monitoring System using Zigbee Powered by Solar

Smita Suresh Gaulkar, Jawaharlal Nehru Engineering College Aurangabad, India. **Girmallappa Revansiddsppa Gidveer**, Jawaharlal Nehru Engineering College Aurangabad, India.

Paper ID : 1570104427

Reliable, Low Cost and Automatic Saline Level Monitoring System Using Microcontroller ATMEGA 328 and Wireless Module CC2500

Mansi G. Chidgopkar, Jawaharlal Nehru Engineering College, Aurangabad, Maharashtra. **B. Aruna P. Phatale**, Jawaharlal Nehru Engineering College Aurangabad, Maharashtra.

Paper ID : 1570109507

Detection of Facial Emotions using Electromyography and Classification

D. G. Thulkar, M. Tech. Student, SGGSI&T, Nanded. **S. T. Hamde**, Professor, SGGSI&T, Nanded.

Paper ID : 1570176555

Biometric Palm Vein Extraction using Spatial Filters and Canny Edge Detector

Shriram D. Raut, Student, Solapur University. **Dr. Vikas T. Humbe**, Professor, S. R. T. M. U. N., Sub-Campus, Latur.

Paper ID : 1570179483

Dynamic Region Growing And Texture Merging For Segmentation of Color Image

Shobhit S. Nikose, M Tech Student, SGGSI&T Nanded. **A.K. Manjaramkar**, Assistant Professor, SGGSI&T Nanded.

Paper ID : 1570117699

A Biometric Modality based on Typing Behavior

Shaikh Mussavir Ahemad, M Tech Student, SGGSI&T. **J.V. Megha**, Associate Professor, SGGSI&T.

Paper ID : 1570107353

Optical Character Recognition for Handwritten Devanagari Script focused on Segmentation

Sapna B. Kamble, **Madhav V. Vaidya**, Department of Information Technology, SGGSI&T, Nanded -431606 (M. S.), India.

Paper ID : 1570104465

User Authentication by Mouse Signature: A Survey paper

Abhay A. Jadhav, M Tech Student, SGGSI&T. **J.V. Megha**, Associate Professor, SGGSI&T, Nanded.

Paper ID : 1570108795

A Neighbor Coverage-Based Probabilistic Rebroadcast for Reducing Routing Overhead in Mobile Ad Hoc Networks

Mayur G.Rathi, M Tech Student, SGGSI&T. **A.K. Manjaramkar**, Assistant Professor, SGGSI&T, Nanded.

Paper ID : 1570105491

Segmentation of MRI Brain Images and Improve Execution Time & Performance for Automatic Diagnosis

Prashant L. Mandale, M Tech Student, SGGSI&T. **J.V. Megha**, Associate Professor, SGGSI&T, Nanded.

Paper ID : 1570109119

Paper Name A Review on Efficient Dissemination of XML Content

Vivek N. Waghmare, Research Scholar, SGGSI&T. **Dr. Ravindra C. Thool**, Professor, SGGSI&T, Nanded.

Paper ID : 1570104277

An Interactive Image Retrieval using Support Vector Machine

Nilesh Bhosle, Dept. of Electronics and Telecommunication Engg., Dnyanganga College of Engineering and Research, Pune, **Manesh Kokare**, Associate Professor, SGGSI&T, Nanded.

Paper ID : 1570111953

Artificial Neural Network Algorithm for Human Hand Gesture Recognition

Gaurav O. Gajbhiye, **Sanjog P. Petkar**, Department of EXTC, Sinhgad College of Engineering (S.C.O.E)-Pune. **Roshan S. Patil**, Department of EXTC, Prof. Ram Meghe Institute of Tech. & Research, Badnera-Amravati.

Paper ID : 1570084481

Discrete wavelet transformed based Image Super-Resolution

Prof. Pramod S. Jadhav, Professor, Anatrao Pawar College of Engineering & Research, Parvati, Pune.

Paper ID : 1570109199

Multichannel Gabor based Iris Recognition

Prithviraj D. S. Bawankar, M Tech Student, SGGSI&T. **Mane Kaushik**, M Tech Student, SGGSI&T.
Sumit S. Jagtap, M Tech Student, SGGSI&T. **Usha R. Kamble**, SGGSI&T, Nanded.

Paper ID : 1570105421

Street Lightening System Based on the Solar Energy

Sailee D.Sheldarkar, **Chhaya S. Khandelwal**, Department of Electronics & Telecommunication Jawaharlal Nehru Engineering College Aurangabad.

Paper ID : 1570103263

Fusion of Geometric and Textural Features for Human Age Classification

Jayant Jagtap, M Tech Student, SGGSI&T. **Manesh Kokare**, Associate Professor, SGGSI&T, Nanded.

Paper ID : 1570164153

Registration Plate Recognition From Still Images And Videos In Real Time Conditions

Glence Joseph, **Aravind G.**, **Andan H. M.**, M Tech Scholar Amrita School of Engineering Bangalore. **Dr. Tripty Singh**, Assistant Professor Amrita School of Engineering Bangalore.

Paper ID : 1570179467

Secure System Using 3D Image Password

Mr. Bahusaheb B. Vikhe, M.Tech Student, RKDF School of Engineering Indore. **Mr. Mahesh D. Nirmal**, Asst. Prof., Dept of Computer Engg. P.R.E.C LONI. **Mr. Prashant B. Vikhe**, Asst. Prof., Dept of Computer Engg. P.R.E.C LONI.

Paper ID : 1570175337

A Survey on Multiplicity formation of H.264/AVC Videos

Ashwini Gorakh Kamble, Department of Computer Engineering ZES's DCOER, Narhe. **Mr. Sunil M. Sangve**, Department of Computer Engineering, ZES's DCOER, Narhe. **Dr. Ravindra C. Thool**, Professor, SGGSI&T, Nanded.

Paper ID : 1570109407

Number Plate Recognition System For Indian Cars

Snehal D. Rokade, M Tech student, SGGSI&T, Nanded. **Prof. M.V. Vaidya**, Associate Professor, SGGSI&T, Nanded,

Paper ID : 1570111483

A Survey of Digital Video Authentication and Tampering Detection

D.M. Humbe, **SS.G. Kejgir**, S.G.G.S. Institute of Engineering and Technology, Nanded, Maharashtra, India.

Paper ID : 1570110501

Performance Evaluation of Quarried Routing using Genetic Algorithm in MANET

Dr. Arun Biradar, Dept. of CSE EWIT, Bangalore, **Mohammed Khurram**, Dept of IT, GCE, Ramanagaram. **Dr. R. C. Thool**, Dept of IT, SGGSI&T Nanded. **Dr. V R Thool**, Dept of IE, SGGSI&T Nanded.

Paper ID : 1570166665

Design Of Low Voltage Bandgap Reference Circuit Using Subthreshold MOSFET

Sushma S Sangolli, Student, B.V.B College of Engineering and Technology, Hubli. **Rohini Hongal**, Professor, B.V.B College of Engineering and Technology, Hubli. **Ramesh Karmungi**, Manager in Analog domain, SmartPlay Technology, Bangalore.

Paper ID : 1570109487

Robust Iris Recognition for Person Identification

Usha R. Kamble, Assistant professor, SGGSI&T. **Dr. L. M. Waghmare**, Director, SGGSI&T Nanded

Paper ID : 1570166669

Design of BiCMOS based low temperature coefficient bandgap reference

Deepa Talewad, Student, B.V.B College of Engineering and Technology, Hubli. **Anilkumar Nandi**, Professor, B.V.B College of Engineering and Technology, Hubli. **Ramesh Karmungi**, B.V.B College of Engineering and Technology, Hubli.

Paper ID : 1570109629

Android based Electrocardiogram signal acquisition and display

R. K. Kanhe, Dept. of ETC, M.I.T., Satara, Aurangabad. **S. T. Hamde**, Professor, Dept. of Instrumentation Engineering, S.G.G.S.I.E.T, Nanded.

Paper ID : 1570109787

Discrimination Between Dry and Wet cough sound using Signal processing tools

Ms. S. A. Walke, **Mrs. V. R. Thool**, Instrumentation Engineering S.G.G.S. Institute of Engineering & Technology, Vishnupuri, Nanded.

Paper ID : 1570162487

Single Carrier with Frequency Domain Equalization SC/FDE System Combined with Multiple Access IFDMA

Tufik M. Buzid, Algabel Algharbi University, Tripoli.

Paper ID : 1570163861

Data Driven Approaches for Pronunciation Adaptation Modeling in ASR systems

Akella Amarendra Babu, **Ramadevi Yellasiri**, **Akepogu Ananda Rao**, CSE Department Jawaharlal Nehru Technological University Anantapur, Anantapuramu, Andhra Pradesh, India.

Paper ID : 1570105761

Survey on Use of Crowdsourced User Preferences for Visual Summarization of Image Collection

Rupali T. Waghmode, Department of Computer Engg. ZES's DCOER Narhe, Pune, India. **Mr. Sunil. M. Sangve**, Department of Computer Engg. ZES's DCOER Narhe, Pune, India. **Dr. Ravindra C. Thool**, Department of Information Tech. SGGSI&T, Nanded,

Paper ID : 1570164567

ACCIDENT PREVENTION AND ROAD TRAFFIC MONITORING USING VANET

Anil Meshram, **Prof. R.A.Patil**, Department of Electronics and Telecommunication College of Engineering, Pune, INDIA.

Paper ID : 1570175345

A Survey on various techniques used in Visual Cryptography

A. B. Patkure, **Mr. S. M. Sangve**, Dept of Comp. Engg. ZES's DCOER, Pune. **Dr.R.C.Thool**, Dept of IT, SGGSI&T, Nanded.

Paper ID : 1570137351

Anomaly Network Intrusion Detection Systems (ANIDS): A review

Mr. Sunil Sangve, Department of Computer Engineering, ZES's DCOER Pune. **Dr. Ravindra C. Thool**, Professor, SGGSI&T, Nanded.

Paper ID : 1570173937

Survey and Evaluations of GSM Security Approach towards the Present Situation

Anuradha Bhalerao Pawar, M.E. (VLSI), Department of Electronics & Communication Engineering, SVCOE, Indore, (M.P), India.

Prize distribution and Valedictory Ceremony

Prize distribution and valedictory Ceremony started with felicitating Dr. B. H. Shekhar, Associate Professor, Mangalore University, Mangalore and Dr. Thippeswamy G., Professor, B. M. S. Institute of Technology, Bangalore followed by their speeches and prize distribution to the best paper awardees.



Best paper awards were given to the papers namely
“Data Driven Approaches for Pronunciation

Adaptation Modeling in ASR systems “presented by Akella Amarendra Babu, Ramadevi Yellasiri and Akepogu Ananda Rao, CSE Department Jawaharlal Nehru Technological University Anantapur, Anantapuramu, Andhra Pradesh, India. , “Optical Character Recognition for Handwritten Devanagari Script focused on Segmentation” presented by Sapna B. Kamble and Madhav V. Vaidya, Department of Information Technology, SGGSE&T, Nanded, “Robust Iris Recognition for Person Identification” presented by Usha R. Kamble, Assistant professor, SGGSE&T and Dr. L. M. Waghmare, Director, SGGSE&T Nanded., “Android based Electrocardiogram signal acquisition and display” presented by R. K. Kanhe, Dept. of ETC, M.I.T., Satara, Aurangabad. S. T. Hamde, Professor, Dept. of Instrumentation Engineering, S.G.G.S.I.E.T, Nanded.

In the end, Dr. R. C. Thool offered a vote of thanks to all including Dr. B. M. Dabade, I/C Director SGGSE&T and Dr. Laxman .M. Waghmare Director, SGGSE&T, Nanded without whom this event wouldn’t have been possible. He thanked all the invited guests for gracing the occasion by their solemn presence and to all the participants of the IConSIP 2015 who were the main ingredient of this Conference. He also thanked Center of Excellence (Signal and Image Processing) for providing all kind of facility to conduct such Conference in the Institute.

Outcome:

We provided a national forum for exchange of ideas among interested researchers, students, developers, and practitioners in the key areas of computing, communications, and informatics. The IConSIP 2015 has addressed key topics and issues related to key aspects of Signal and Image Processing, Electronics & Telecommunication, Instrumentation & Control, Computing and Informatics Technologies.

Acknowledgements

We would like to express our gratitude to everyone who contributed to the success of this event, especially the dedication and hard work of the conference planning committee. We would also like to thanks to Shri Guru Gobind Singhji Institute of Engineering and Technology Nanded and Center of Excellence in Signal and Image Processing for their Contributions. Without the work and support of the conference committee, sponsors, speakers and the public engagement, this conference would not have been possible

Dr. Ravindra C. Thool
Conference Convener
IConSIP 2015