

Sarvajanik Education Society
Sarvajanik College of Engineering and Technology
Dr. R K Desai Marg, Athwalines, Surat- 395001
SCET Multi-Disciplinary Conference on Engineering & Technology (SMDCET)

NATIONAL CONFERENCE
on

“Sustainable Computing and Information Technology” (SCIT 2017)

25th -26th March 2017

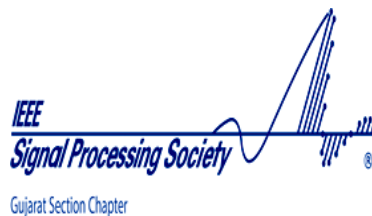
organized by

Computer Engineering Department

Information Technology Department

Master of Computer Application Department

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Sarvajanik College of Engineering and Technology, Surat organized SCET Multidisciplinary Conferences on Engineering & Technology (SMDCET-2017) during 25th-26th March 2017. Under this banner, the National Conference on “Sustainable Computing and Information Technology” (SCIT 2017) was organized jointly by the Computer Engineering Department, Information Technology Department and Master of Computer Application Department.

The aim of SCIT 2017 was to gather technocrats from different states of India on a common platform, and to promote research activities in all fields of Computer Science & Engineering. SCIT 2017 encompassed research under the themes of i) Networking, Security & Distributed Computing, ii) Artificial Intelligence & Soft Computing iii) Software Engineering and other advances in the field of computing.

The inaugural function of the multi-conference took place 10:00 AM on 25th March 2017 at the Tifac Seminar Hall. During the inaugural Dr. S R Gandhi, Director SVNIT was invited as chief guest and Dr. U B Desai, Director, IIT Hyderabad and Shri Rajiv Bhatnagar, Director, Hazira facility, ESSAR Steel were guests of honor.



Inauguration Function

Keynote Address

Dr. U B Desai delivered a keynote address on “No Smart cities without sensors”. The talk was well appreciated by the audience who acquired useful information on what can be done with affordable sensor technology and how smart city innovation can transform their lives.



Keynote Address

The national conference SCIT 2017 comprised of paper presentations organized under three tracks 1) “Networking, Security and Distributed Computing”, 2) “Artificial Intelligence and Soft Computing” and 3) “Software Engineering & Advances in Computing”. There was also a guest talk by Dr. Dipti Rana from NIT, Surat on the topic “Social Computing”. In addition, there were other events especially for UG students such as Poster Presentation, Quiz Contest (Quizard), Relay Coding and C- Programming Contest (Sensus Codice).

Guest Talk

A guest talk was organized at the N. J. Seminar Hall on 26th March 2017 at 9:30 AM under the banner of SCIT 2017. The title of the talk was “Social Computing” which was delivered by Dr. Dipti Rana from NIT, Surat. The audience comprising conference participants, students and

faculty members of IT/CO/MCA benefited from the knowledgeable talk and interactive discussion with the speaker.



Guest talk on Social Computing

Paper Presentations

SCIT 2017 received 43 research papers from which 20 papers were selected for presentation, after a peer-review process based on their originality and technical quality. The selected papers were presented in three technical sessions.

Session 1 covered the track “Networking, Security and Distributed Computing”. This session encompassed the technical areas: “Wireless Computing”, “Cluster, Cloud and Grid Computing”, “Computer Networks, Security and Privacy”, “Cryptography”, “Ad-hoc, Distributed and Parallel Networks”, “Digital Watermarking”, “RFID Applications”, “Mobile Computing”, “Biometrics”, “Ubiquitous Computing & IoT”, “Bioinformatics” and “Big Data Analytics”. Dr. Ami Choksi from Computer Engineering Dept., CKPCET was session chair for this track.



Track 1: Networking, Security and Distributed Computing

Session 2 covered the track “Artificial Intelligence & Soft Computing”. This session encompassed the technical areas: “Pattern Recognition and Analysis”, “Natural Language Processing”, “Data Mining: Text/Web/Opinion/Spatial”, “Robotics”, “Virtual Reality”, “Genetic Algorithms”, “Swarm Intelligence”, “Fuzzy Logic”, “Artificial Neural Networks”, “Computer Graphics and Animation”, and “Image Processing”. Dr. Jatinder Saini from NCCA, Bharuch was session chair for this track.





Track 2: Artificial Intelligence & Soft Computing

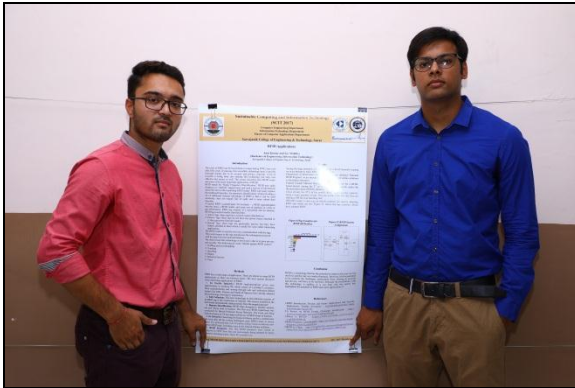
Session 3 covered the track “Software Engineering” and “Advances in Computing”. This session encompassed the technical areas: “Software Lifecycle Models”, “Requirement Specification”, “Version Control”, “Software Testing”, “Risk Assessment”, “Software Quality Assurance”, “Image Processing”, “Cloud Computing”, “Algorithmics” etc. Dr. Dipti Rana from NIT, Surat was session chair for this track.



Track 3: Advances in Computing

Poster Presentation

The poster presentation comprised of display and presentation of posters pertaining to different technical areas in the computing field such as Mobile Computing, Artificial Intelligence, Computer Networks, Robotics etc. There were 18 entries in the poster session. Evaluation of the poster session was done by Prof. Vishruti Desai from CKPCET, Surat.



Scholar Session - Poster Presentation

Quiz Competition (Quizard)

The quiz competition received an enthusiastic response with 202 entries from students all over south Gujarat. The quiz was conducted in two rounds. The first round comprised an online quiz in which students answered multi-choice questions pertaining to technology, general knowledge and aptitude. The second round was an audio-visual round of quizzing which saw a tough face-off between the final six teams. The winners presented with certificates.



Quiz Competition

Relay Coding

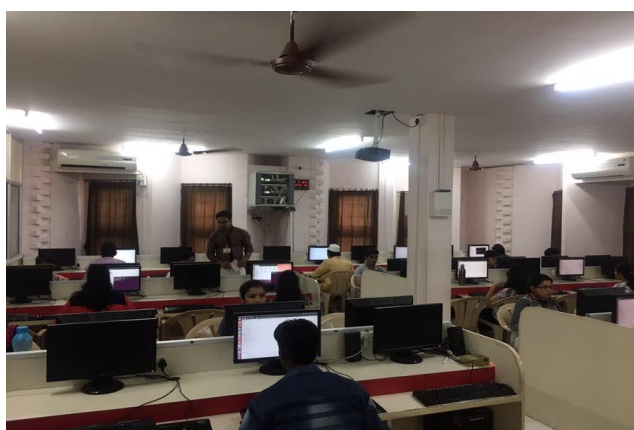
Relay coding was organized on 26th Mar 2017 in 3 rounds named as Code, Decode and Repeat. The event being very interesting one, received an overwhelming response from all over South Gujarat. In all 110 teams (team of 2) participated in round one, out of which 52 teams were selected for round two. Out of these 52 teams, 34 teams qualified for round three, the final round. In the final round total 3 teams had completed the relay of programming and stood winners.



Relay Coding

Sensus Codice (C- Programming Contest)

Sensus Codice was organized on 25th-26th March, 2017. This event received overwhelming response and a magnificent success. "Sensus Codice" was a technical event conducted with two rounds. The first round conducted on 25th March was on 'C' programming language in which jumbled form of code was given. Sensus Codice's second round was conducted on 26th March, in which students had to locate errors in the given program. Total 35 students participated in the event. Winners were awarded with prizes and certificates.



Sensus Codice

Acknowledgements

We sincerely thank all the guests, keynote speakers, reviewers, technical session chairs, and authors of selected papers for their contribution. We are thankful to SES management and Principal, SCET Dr. Vaishali Mungurwadi, for firm support in all our endeavors. We are privileged to acknowledge Computer Society of India (CSI), Indian Society for Technical Education (ISTE), IEEE Signal Processing Society, Gujarat Section Chapter and the Institution of Electronics and Telecommunication Engineers (IETE) for their technical support. We thank our worthy sponsors 'JMD Infotech', 'Jupiter Automation', 'Shreeji Computer Consultancy' and 'Avantis Enterprise' for their financial support.