

## REPORT

Date: 09/03/2018

### Conference on Electronics & Telecommunication Engineering (CETE 2018)

- **Conference Dates:** 23<sup>rd</sup> & 24<sup>th</sup> February, 2018
- **Conference Venue:** Thakur College of Engineering & Technology, Kandivali (E), Mumbai-400101, Maharashtra, India

- **About the Conference:**

Conference on Electronics & Telecommunication Engineering (CETE 2018) was an event of Thakur College of Engineering & Technology (TCET), Mumbai under MULTICON-W 2018. The objective of the conference was to bring professional engineers from industry, academics, research organizations and research scholars of matching interests on a common platform to share new ideas, experiences and knowledge in these fields of Engineering and Technology. Such interactions will facilitate better understanding about technological developments all across the world amongst the peers. CETE 2018 solicits research papers describing significant and innovative research contributions in the field of Communication and Networking, Signal processing and Antenna & Microwave Devices. Submissions were invited on a wide range of research topics, spanning both theoretical and systems research.

The tracks of the conference included:

1. *Conference on Signal Processing & Applications (CSPA)*
2. *Conference on Advances in Communication Engineering (CACE)*
3. *Conference on Antenna & Microwave Engineering (CAME)*

#### **I. Keynote Addresses:**

CETE 2018 encompassed two keynote addresses on Day 1 (23<sup>rd</sup> February, 2018)

##### **Day 1, Keynote Address 1:**

**Topic:** Organic Semiconductors for flexible & stretchable electronics

**Speaker:** Dr. P. Chakrabarti, BHU, Varanasi, India

**No. of Participants:** 40

**Overview:** The key highlights of the talk included discussion on organic material history with their classes and low molecular weight. A discussion on configurable polymer structures, Sigma bonding, Pi transition, Organic versus inorganic intra-bond transition and quantum dot transition took place. Biodegradable organic materials and their electrical properties were discussed in detail. Applications such as organic TFT, smart phone, organic LEDs, solar cells, lasers and wearable's were also discussed by the speaker.

**Day 1, Keynote Address 2:**

**Topic:** Wireless Sensors for substation monitoring

**Speaker:** Dr. Shubhlaxmi Kher, Arkansas State University

**No. of Participants:** 40

**Overview:** The key highlights included discussion on power wire sensor availability with respect to power dissipation and balance out with communication. Homogenous sensors and heterogeneous sensors used for network grids were discussed. Algorithms for implementation of complex structures and simpler installation were discussed. Companies like GE Dimensions, Capgemini, COMTROL uses this technology. Architecture of WSN monitoring subsystem was also discussed by the speaker.

**II. Resource Person Feedback:**

1. **Dr. Shubhalaxmi Kher:** Conference initiative, organizing, execution and content are at par with other international conferences, great effort.
2. **Mr. Bhargav Thakar:** Superb efforts put in by faculty as well as students.
3. **Mr. Mujib Tamboli:** Excellent efforts by staff and students, keep it up.
4. **Dr. J. H. Nirmal:** Excellent team work, students are highly motivated.

**III. Conference Participation Details:**

Paper Details	TCET	External	Total	Remarks	
Total Papers Received:	65	46	111	51 – UG 8 – PG 4 – Ph. D. 2 – Faculty	13 – Theem COE 7 – Goa COE 4 – MGM 3 – K. J. Somaiya COE
Total Papers Registered:	48	22	70		
Total Papers Scheduled:	65	35	100	Abstracts were not scheduled	
Total Papers Presented out of Scheduled:	32	22	54	5 PG students shifted to Engineering Colloquium	
% Presentation out of registered:	<b>66.6%</b>	<b>100%</b>	<b>77.14%</b>		

#### IV. Conference Evaluation Details:

After a thorough evaluation of papers presented, the session chairs identified the following papers as the most contributive papers:

- **Details of Most Contributive Internal Papers (Final-year students) identified by Session Chairs:**

Sr. No.	Paper ID	Paper Title	Author Names	Strength	Session Chairs
1	24	Receiver for High-Resolution Level Gauge Based on FMCW Radar	Sanath Acharya, Niraj Jangid, Tarush Shenoy	Based on literature study done, innovation and actually implemented the idea and actually derived the conclusions.	Dr. J. H. Nirmal
2	16	Transmitter system for high resolution level gauge based on fmcw radar	Sumit Kushwaha, Suhas Hegde, Nilesh Jha, Shivraj Joshi	Based on literature study done, innovation and actually implemented the idea and actually derived the conclusions.	Dr. J. H. Nirmal
3	8	Real-Time Communication Braille Glove for Deaf and Blind	Rohit Tiwari, Miti Shah, Tanvi Shah	Looks to be a nice concept, team also has good clarity about the work being done.	Mr. Roshan Makkar
4	22	Haptic Based Sign Language Interpreter	Swayam Bhosale, Harsh Kalla, Kashish Kitawat	Overall good work and team looks confident of their skills.	Mr. Roshan Makkar
5	110	Enhancing Performance of Wireless Optical Link In WBANS	Shivam Agarwal, Priyanka Dubey and Nachiket Bane	Good idea, could answer all questions, showing the team has good knowledge	Mr. Bhargav Thakar
6	17	Convivial - Connecting Homes	Amit Pathak, Amit Mishra, Ravi Pandey	Good idea	Dr. J. H. Nirmal
7	12	Optimizing Hidden Markov Model for Online Signature Verification	Mayuri Sawant Rasika Bagwe Shimoni Mistry Manoj Chavan	Good presentation and work done is impressive	Mr. Pravin Jain
8	34	Design of virtual lab based CPLD experiments	Radhika Kehalkar Jatin Kacha Satyam Pandey	Good idea	Dr. J. H. Nirmal
9	14	Smart Attendance Monitoring System	Abhinav Meta, Sachin Manral, Karan Parikh	Good team work and presentation	Mr. Rahul Jain
10	27	Human-Vehicle Interconnection Using AD-HOC Network	Shivani Seksaria Shweta Nair	Results are good	Mr. Roshan Makkar

• **Details of Most Contributive Papers Identified by Session Chairs:**

Sr. No.	Paper ID	Paper Title	Author Names	Affiliation	Strength	Session Chairs
1	71	Smart Floor Cleaner Robot	Rahul Indulkar, Tanmay Patil, Anup Sankhe, Prathmesh Lingam, Khemchand Attarde	Theem College Of Engineering, Boisar	Good results	Dr. J. H. Nirmal
2	59	Fingerprint authentication using a combination of local feature detectors and SIFT	Harshal Patil Ameya Naik	K. J. Somaiya College of Engineering	Impressive work	Mr. Pravin Jain

• **Scope of Improvement in Paper Preparations and Presentations:**

The goal of the conference is to create a world-class forum for discussing cutting edge research, and directions for new innovations and technology. To accomplish the goal in paper presentations by internal students, following improvements are suggested:

1. More experimental results should be added to the paper rather than just a survey or a review.
2. Several papers encompass only the proposed methodology – its implementation is not included in the paper. A high-quality paper demands showing results and its discussion.
3. More articles should be referred while preparing the paper and hence more references should be cited and listed.

**V. Feedback Survey:**

• **Findings from the survey:**

The survey conducted on Day 1 and Day 2 shows that proper conduct of the conference. Some of the major appreciations include:

- 1) Well management and organization of the conference
- 2) The contributions of session chairs are extremely valuable
- 3) Excellent knowledge sharing platform
- 4) Keynotes addresses were very good
- 5) Motivational speech during inauguration

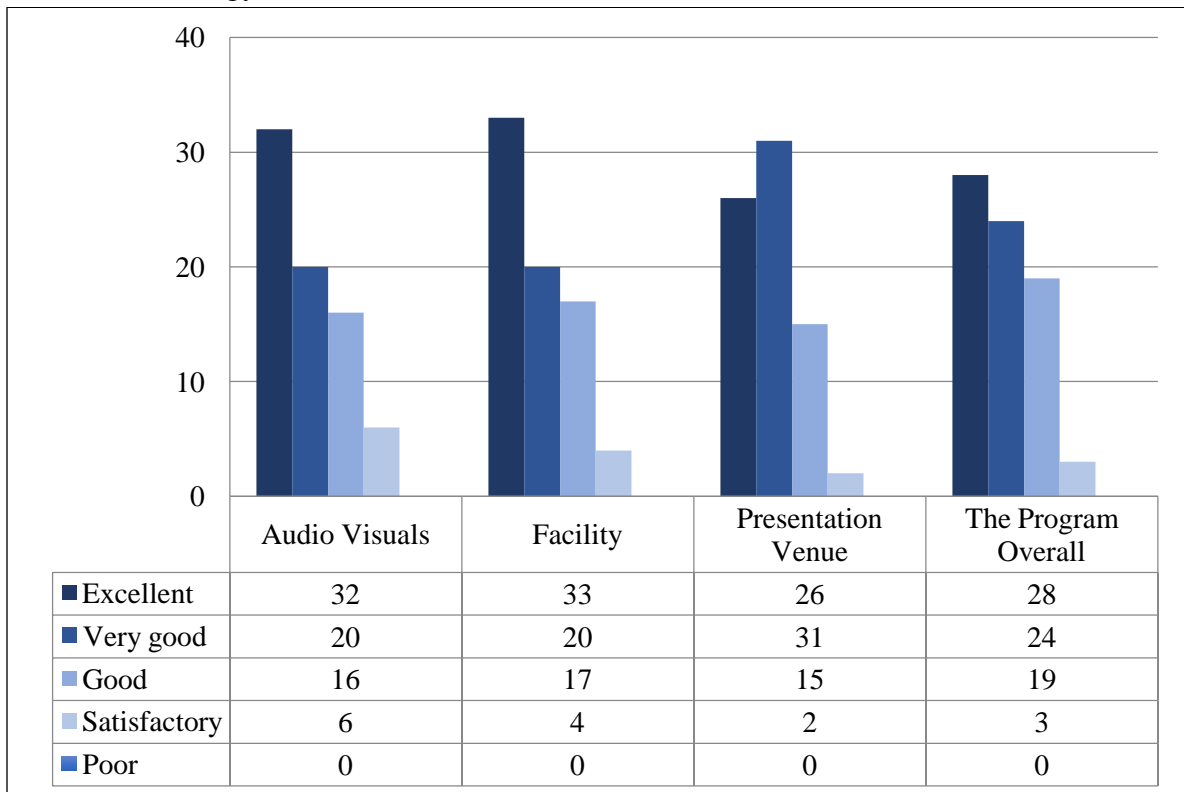
• **Recommendations:**

- 1) Certificates should be provided to all members of group (with no additional cost).
- 2) Conference fees should be decreased

• **Feedback**

Rated very high with the following notes from the delegates:

1. Excellent Coverage, Good Technical Presentation
2. Great hospitality and excellent transportation arrangement
3. State-of-art infrastructure, proper venue management and guidance
4. Cooperative staff members, Conducive environment
5. Good Affiliation for the Proceedings publication like McGraw Hill
6. Affiliation with UGC approved International Advanced Research Journal in Science and Technology (IARJSET)



**Session Chairs for Presentation:**

**Externals:**

1. Dr. J. H. Nirmal (Professor, K. J. Somaiya College of Engg.)
2. Dr. N. K. Rana (Principal, Theem College of Engg.)
3. Mr. Bhargav Thakar (BDM – Siemens)
4. Mr. Dnyaneshwar Kamble (IEEE, Bombay Section)
5. Mr. Roshan Makkar (Senior Scientist - SAMEER)
6. Mr. Tamboli Mujib (Assistant Professor - Anjuman-Islam's Kalsekar Technical Campus)
7. Mr. Rahul Jain (COO - Oswin Industries)
8. Mr. Pravin Jain (Technical Director Dataserve Infotech Pvt. Ltd.)

**Internals:**

1. Dr. Lochan Jolly (Technical Chair, Dean SSW)
2. Dr. Vinitkumar J. Dongre (Convener, HOD, EXTC)
3. Mr. Sanjeev Ghosh (Co-Convener CSPA, Dy HOD, EXTC)
4. Dr. Madhuri Mavinkurve (Associate Professor, EXTC)
5. Dr. Payel Saha (Associate Professor, EXTC)
6. Mr. Shailendra Shastri (Co-Convener CAME, EXTC)
7. Dr. Sangeeta Mishra (Co-Convener CACE, EXTC)

**Key arrangements**

**1. Venue arrangement :**

- i. Paper presentation: B 107 and B 108 (1<sup>st</sup> Floor)
- ii. SE/TE Presentations: B 110 and B 111 (1<sup>st</sup> Floor)
- iii. Conclave: Lab 103, 105, 115, Ph. D. Lab (4<sup>th</sup> Floor) and M. E. Lab (4<sup>th</sup> Floor)
- iv. Inaugural function: Auditorium (2<sup>nd</sup> Floor)
- v. Keynote and Valedictory function: New Seminar Hall – I (4<sup>th</sup> Floor)
- vi. Food arrangement: TSAP, Multipurpose Hall

**2. Registration kit/Proceeding distribution – Office counter**

**Proceeding Distributed**

- No. of Proceedings (CD) : 90 (Approx.)  
 Extra (Dignitaries) : 10 (Approx.)

**Events Attendance**

Participation		Participants / Delegates		
Sr. No.	Event	Day 1	Day 2	Day 1 + Day 2
1	Key Note address	40	-	40
2	Inaugural & Valedictory Function	40	20	60

**Conference Statistics:**

Papers Received	111
Total Paper Registered	70
Total Paper Presented	54
Total Authors	313
Camera Ready Copy	102

**Two Days Presentation Details:**

1. Total Papers Received: 111 (313 Authors)
2. Total Papers Scheduled: 100/111 (90%)
3. Total Papers Registered: 70/100 (70%)

**Day 1: 23<sup>rd</sup> February, 2018**

Sr. No	Conference Particulars	No. of Papers Presented	No. of Students Attended	Consolidated Percentage
1.	CACE (Venue 107)	16/21	-	76.19%
2.	CSPA & CAME (Venue 108)	11/22	-	50.00%
3.	SE: In-House Technical Paper Presentation	7/9	-	77.78%
4.	TE: In-House Technical Paper Presentation	0/3	-	0%
5.	Computer Network Workshop	-	34/35	97.14%
6.	Conclave (Android)	-	51/51	100%
7.	Conclave (TCAD)	-	55/55	100%
8.	Conclave (Advanced CCNA)	-	35/35	100%
9.	Conclave (Arduino)	-	40/40	100%
10.	Conclave (SDN)	-	27/27	100%

**Day 2: 24<sup>th</sup> February, 2018**

Sr. No	Conference Particulars	No. of Papers Presented	No. of Students Attended	Consolidated Percentage
1.	CACE (Venue 107)	15/27	-	55.55%
2.	CSPA & CAME (Venue 108)	13/30	-	43.3%
3.	SE: In-House Technical Paper Presentation	3/15	-	20%
4.	TE: In-House Technical Paper Presentation	4/11	-	36.36%
5.	Computer Network Workshop	-	34/35	97.14%
6.	Conclave (Android)	-	39/51	76.47%
7.	Conclave (TCAD)	-	53/55	96.40%
8.	Conclave (Advanced CCNA)	-	35/35	100%
9.	Conclave (Arduino)	-	37/40	92.50%
10.	Conclave (SDN)	-	27/27	100%

**Consolidated Statistics: (Day 1 + Day 2)**

Sr. No	Conference Particulars	No. of Papers Presented	No. of Students Attended	Consolidated Percentage
1.	CACE (Venue 107)	31/48	-	64.6%
2.	CSPA & CAME (Venue 108)	24/52	-	46.15%
3.	SE: In-House Technical Paper Presentation	10/24	-	41.67%
4.	TE: In-House Technical Paper Presentation	4/14	-	28.57%
5.	Computer Network Workshop	-	34/35	97.14%
6.	Conclave (Android)	-	45/51	88.23%
7.	Conclave (TCAD)	-	54/55	98.18%
8.	Conclave (Advanced CCNA)	-	35/35	100%
9.	Conclave (Arduino)	-	39/40	97.5%
10.	Conclave (SDN)	-	27/27	100%

## VI. SWOC Analysis:

<b>1.</b>	<b>Strength</b>	<ol style="list-style-type: none"> <li>1. First time conference organized solely by the Department of Electronics and Telecommunication along with five conclaves, SE and TE Idea presentations with 28 faculty members and 6 supporting staff</li> <li>2. Association with McGraw Hill and International Advanced Research Journal in Science and Technology (IARJSET). 30-40% updation for selected papers</li> <li>3. Single platform offering wide variety of event available for participant to choose from</li> <li>4. Excellent Infrastructure and flexible location</li> <li>5. Personalization of quality service, learning atmosphere and food to provide the ultimate satisfaction</li> <li>6. Creative team with impressive list of technical experience of team</li> <li>7. Strong and varied advisory board</li> <li>8. Highly qualified staff members for managing the conference</li> <li>9. Cross disciplinary approach</li> <li>10. Good contacts in teaching and industry, hence we have a very good pool of experts and large number of publicity database</li> <li>11. In house publications</li> </ol>
<b>2.</b>	<b>Weakness</b>	<ol style="list-style-type: none"> <li>1. Quality of technical papers at initial stage</li> <li>2. Abstracts not getting converted to papers</li> <li>3. Response from outside India is less</li> <li>4. High startup and event management cost increases publication fees</li> <li>5. 58.5% internal and 41.4% external papers out of total papers</li> <li>6. Paper format changed a week ago</li> <li>7. Less no. of Ph.D. and M. E. papers</li> <li>8. Parallel activities of internal students</li> </ol>
<b>3.</b>	<b>Opportunities</b>	<ol style="list-style-type: none"> <li>1. Publicity can be started 6-8 months in advance to get good papers so that authors get good time to do research</li> <li>2. Listing this event would boost our branding with various institutes all over the world</li> <li>3. Ability for attracting more external from various states of India and world</li> <li>4. This event would offer the platform for academic, research and practitioner community to promote and share the research ideas to drive "Make in India"</li> <li>5. Add more people from outside India in the conference committee</li> </ol>
<b>4.</b>	<b>Challenges</b>	<ol style="list-style-type: none"> <li>1. Growing number of conferences by nearby institutes</li> <li>2. Less participation from external delegates and industry experts</li> <li>3. Less sponsorship offered by external institutions</li> <li>4. International bodies are reluctant for the affiliation, mainly due to quality of papers</li> <li>5. Detecting and correcting plagiarized papers</li> <li>6. Involvement of alumni's and stake holders</li> </ol>

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