

Report On
**“Online International Conference on
Smart Materials and Emerging
Technologies for
Industry 4.0 (SMETI 2020)”**

held on 16th – 17th October 2020

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING



Dr. S. Ramesh Babu



Dr. M. Mohandass

Coordinator



Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head

Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Dr. S. Ramesh Babu

Convenor

Online International Conference on Smart Materials and Emerging Technologies for Industry 4.0 (SMETI 2020)

16th & 17th October 2020

Report

The two-day online International Conference on Smart Materials and Emerging Technologies for Industry 4.0 (SMETI 2020) was organized through online mode. Dr. M. Mohandass, Associate Professor, Mechanical Engineering department welcomed the dignitaries Prof. Seeram Ramakrishna, Director of centre for Nanofibers and Nanotechnology & Vice president of Research Strategy of NUS, Dr. A.C. Muthiah, Chairman, Governing Council, Sri Venkateswara Educational and Health Trust, Dr. M. Sivanandham, Secretary, Sri Venkateswara Educational and Health Trust, Dr. S. Ganesh Vaidyanathan, Principal, Sri Venkateswara College of Engineering and Dr. S. Ramesh Babu, Hod/Mechanical Engineering and Coordinator of this International Conference. Dr. S. Ramesh Babu briefed about the theme of the International conference and thanked the All India Council for Technical Education for considering the conference request proposal and sanctioning a sum of Rs. 50,000/- for organizing an International Conference through online mode. The coordinator also thanked the management for their their enthusiastic and moral support for organizing various events for the benefit of the society and also for research and developmental initiatives in the Institute.

In his Presidential Address, Dr. A. C. Muthiah, Chairman, Governing Council, SVEHT advised that it is not sufficient for an engineer to be a specialist in a particular field of science, they need to be versatile in other fields of engineering and technologies as well, for it is, no longer possible for anyone discipline to address the setbacks, problems, or concerns associated with these challenges single-handedly. They have to adopt interdisciplinary approaches to handle and resolve the key global challenges. M. Sivanandham, Visiting Professor, Department of Biotechnology and Secretary, Sri Venkateswara Educational and Health Trust mentioned that the 21st century, probably can be called as “The Century of Technologies” and the rapid developments in various technologies is possible only because of the variety of materials that were developed out of rigorous R & D. Dr. S. Ganesh Vaidyanathan, Principal, SVCE, in his Presidential Address spoke about the objectives of a

conference, the outcomes of an effective conference, the standard of presentation required for such International Conference and various other benefits of actively taking part in conferences. Dr. S. Ganesh Vaidyanathan also expressed that the challenges in the implementation of Industry 4.0 Standard necessitates the forum of scientists and researchers to come together and share their knowledge on solutions adopted in Engineering and Technology across the globe

Dr. K. R. Santha, Vice Principal and HoD/EEE introduced the chief guest to the gathering. Prof. Seeram Ramakrishna, Director of centre for Nanofibers and Nanotechnology & Vice president of Research Strategy of NUS spoke about the Intelligent materials and its scope to the gatherings. He also spoke of the importance of integrating industry required skills in the curriculum to prepare the graduates for the reality in the industry and how there is a requirement only for people skilled in managing the various aspects of manufacturing and production as manual labor is being taken over by technological innovations which are more precise and time-saving in doing the same operations. The inaugural session came to a close with the release of the conference proceedings through online mode. Finally, Dr. S. Anitha, HoD/ Computer Science and Engineering department presented the vote of thanks.





Dr. M. Mohandass, Associate
Professor/Mechanical Engineering Department



Dr. S. Ramesh Babu, Coordinator



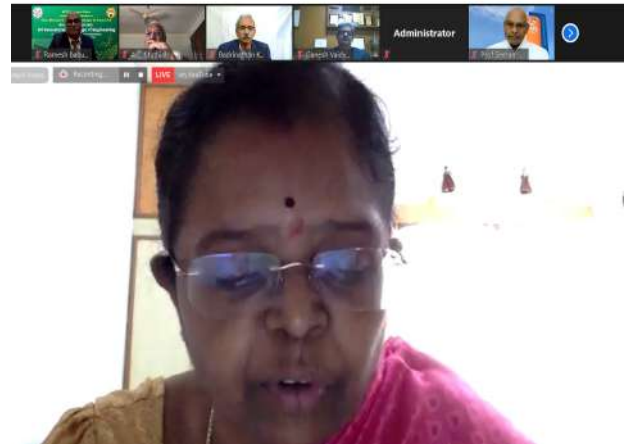
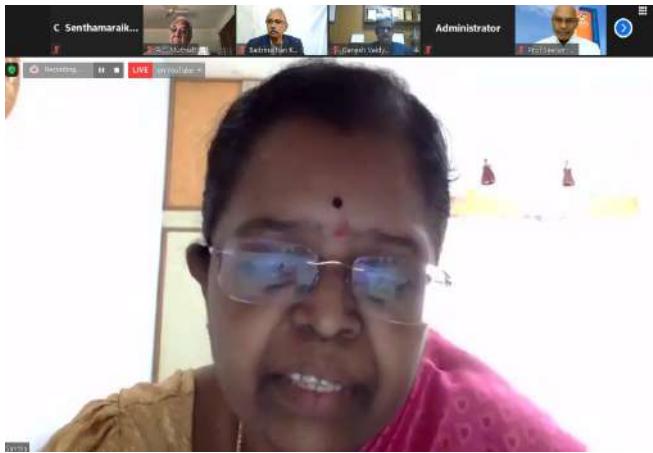
Dr. A.C. Muthiah, Chairman, Governing Council, SVEHT



Dr. M. Sivanandham, Secretary, SVEHT



Dr. S. Ganesh Vaidyanathan, Principal, SVCE



Dr. K. R. Santha, Vice Principal and HoD/EEE





Prof. Seeram Ramakrishna, Director of centre for Nanofibers and Nanotechnology & Vice president of Research Strategy of NUS



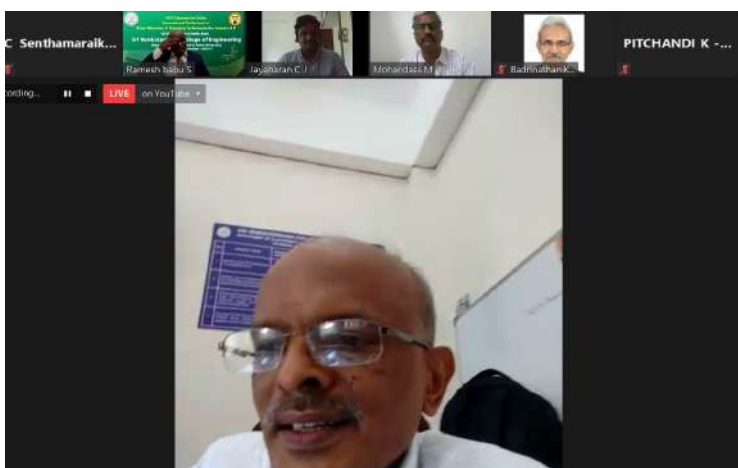
Dr. K. S. Badrinathan

Dean Education Development & Professor /MEC



Dr. S. Anitha

HoD/ CSE



Dr. S. Muthu Kumar

Professor and Head / ECE



Day 1 (16th October 2020)

09.30 a.m. - 10.30 a.m.	<i>Inauguration</i> <i>(Welcome Address, Coordinator address, Chairman address, Principal, Secretary address, Chief Guest Inaugural Address-International Speaker)</i>									
10.30 a.m. - 10.45 a.m.	Break									
10.45 a.m. - 11.30 a.m.	<p style="text-align: center;">Mr. Jayaharan C J, PMP Deputy General Manager - IIoT and Automation Projects Enterprise Process Solutions, Ramco Systems Limited, Chennai Topic - Future of Industrial Automation <i>YouTube live stream</i></p>									
TECHNICAL SESSION-I										
11.40 Noon. - 01.00 p.m.	Stream-1 MEC/AUT/MAR/CVE				Stream-2 CSE/INT		Stream 3 CHE / Applied Chemistry	Stream 4 ECE/EEE		
	MECH	AUTO	MAR	CVE	CSE	IT	CHE/ Chemist ry	ECE	EEE	
01.00 p.m. - 01.45 p.m.	Lunch Break									
01.45 p.m. - 02.30 p.m.	MEC/AUT/MAR/CVE			<p style="text-align: center;">Dr. A. Arockiarajan Professor, Dept. of Applied Mechanics, IIT Madras Topic: Mechanics of Smart Composites <i>Google meet link-1: https://meet.google.com/nhu-fkud-iww</i></p>						
	CSE/INT			<p style="text-align: center;">Dr. Ts. Chockalingam Aravind Vaithilingam Associate Professor, Taylor's University, Malaysia, Topic: University as central piece Innovation Driver within the IR 4.0 Eco-system <i>Google meet link-2: https://meet.google.com/rud-wtzo-ear</i></p>						
	BIO/CHE			<p style="text-align: center;">Dr. P. A. Balakumaran Microbial Processes and Technology Division (MPTD) CSIR- NIST, Thiruvananthapuram Topic: 13C Based Metabolic Flux Analysis <i>Google meet link-3: https://meet.google.com/kba-upoi-nrh</i></p>						
	ECE/EEE			<p style="text-align: center;">Dr.Vaidehi Vice chancellor, Mother Theresa University, Kodaikanal , Tamilnadu Topic: Machine Learning in IoT</p>						

		<i>Google meet link-4: https://meet.google.com/wdd-jkju-dep</i>						
02.30 p.m. - 02.45 p.m.	Break							
TECHNICAL SESSION-II								
02.45 p.m. - 04.15 p.m.	Stream-1 MEC/AUT/MAR/CVE		Stream-1 BIO/CHE		Stream-3 CSE/INT		Stream 4 ECE/EEE	
	MECH	AUTO	CSE	IT	CHE	BIO	ECE	EEE

Day 2 (17th October 2020)

09.00 a.m. – 10.00 a.m.	MEC/AUT/MAR/CVE	<p style="text-align: center;">Dr. T Ram Prabhu Scientist and Deputy Director, DRDO, Govt of India Topic: Research Scopes in Metal Additive Manufacturing <i>Google meet link5: https://meet.google.com/gfk-jfqj-hrv</i></p>						
	CSE/INT	<p style="text-align: center;">Dr. V. Masilamani Asso. Prof., Computer Science Engineering, IITDM, Kanchipuram Topic: Machine Learning algorithms for Image Quality measure and application <i>Google meet link-6: https://meet.google.com/suo-qguh-hbz</i></p>						
	BIO/CHE	<p style="text-align: center;">Mr. K. Sadanand Regional Sales Director: SEA – industrial Water Technologies Solenis Singapore Pvt. Ltd Topic: Insight into Total Water Management <i>Google meet link-7: https://meet.google.com/qfz-hsie-qwb</i></p>						
	ECE/EEE	<p style="text-align: center;">Dr. Shriram Vasudevan Asso. Prof. / ECE, Amrita University, Coimbatore, Tamil Nadu Title: Innovation with the IoT and Deep Learning <i>Google meet link-8: https://meet.google.com/cna-wnfz-inh</i></p>						
10.00 a.m to 10.15 am	Break							
TECHNICAL SESSION-III								
10.15 a.m. – 12.30 p.m.	Stream-1		Stream-1		Stream-3		Stream 4 ECE/EEE	

	MEC/AUT/MAR/CVE		CSE/INT		BIO/CHE/APP Science		
	MECH	MECH	CSE	IT	CHE	Physics	ECE
12.30 p.m. - 01.00 p.m.	<i>Lunch Break</i>						
<i>TECHNICAL SESSION-IV</i>							
01.00 p.m - 02.45 p.m	<i>Stream-1</i> MEC/AUT/MAR/CVE			<i>Stream-2</i> CSE/INT		<i>Stream-3</i> BIO/CHE / Applied Sciences	<i>Stream 4</i> ECE/EEE
	MECH		MECH		CSE		CHE/Chem istry
03.00 p.m. - 03.15 p.m.	<i>Break</i>						
03.15 p.m. - 04.00 p.m.	<i>Valedictory & Announcement of Best Papers</i>						

PAPER PRESENTATION
LIST OF TRACKS WITH PAPER ID

Sl.No	Stream/ Track		Paper ID
Day 1 (16th October – 2020), Fore Noon (11.40 a.m. –01.00 p.m.)			
1	Stream-I	Track-I	MECH
		Track-II	AUTO
		Track-III	MAR
		Track-IV	CVE
			<p>14650, 14655, 14677, 14690, 14709, 14711, 14725 Session Chair1: Dr. K.S.Badrinathan, Prof. MEC/SVCE - (9840807665) Chair2: Dr V MuthuKumar, Prof./Mech/SEC - (9176941555) Google meet link-9: https://meet.google.com/bih-pwis-qdv</p> <p>14745, 14755, 14767, 14817, 14842, 15215 Session Chair1: Dr.J.Venkatesan, Prof. & Head/AUT/SVCE - (9444339292) Chair2: Dr.S.Premnath, Asso. Prof./AUT/SVCE - (9841693964) Google meet link-10: https://meet.google.com/nin-fhgr-dix</p> <p>14723, 15255, 15259, 15328, 15342 (MAR) Session Chair1: Prof. S Kalidoss, MAR/SVCE - (9500181788) Chair2: Mr. V. Guruswamy, MAR/SVCE - (99944 36427) Google meet link-11: https://meet.google.com/ujs-hnek-jdv</p> <p>14737, 15277,15311, 15314, 15315, 15323 (CVE) Session Chair1: Dr.R.Kumutha, HOD/CVE/SVCE - (9894125626) Chair2: Dr.R. Subashchandrabose, HOD/CVE/Visvodaya Engineering College, Nellore - (+91 98404 53574) Google meet link-11(a): https://meet.google.com/exd-nguz-mkt</p>

2	Stream-II	Track-I	CSE	14661, 14664, 14733, 14740, 14751 Session Chair1: Dr C Jayakumar_Prof. CSE/SVCE - (9884217734) Chair2: Dr K.S.Gayathri, Asso. Prof./CSE/SVCE - (9445454188) Google meet link-12: https://meet.google.com/ykx-synw-uud
		Track-II	IT	14689, 14753, 14763, 14795, 14805 Session Chair1: Dr.G.Sumathi, Prof./IT/SVCE - (9444364243) Chair2: Ms.N.Devi, A.P/IT/SVCE - (9840584719) Google meet link-13: https://meet.google.com/sqr-gagb-bvo
3	Stream-III	Track-I	CHE	14649, 14776, 14688, 14844, 15222, 15327 Session Chair1: Dr.Nalinkanth V Ghone, Prof./CHE/SVCE - (8122603376) Chair2: Dr.M.Yogeshkumar, Asso. Prof./CHE/SVCE - (7358271984) Google meet link-14: https://meet.google.com/ryw-zzkk-fax
4	Stream-IV	Track-I	ECE	14651, 14750, 14756, 14758, 14769, 14777 Session Chair1: Dr.G.Padmavathi Prof./ECE/SVCE - (9600138593) Chair2: Dr.R.Gayathri, Asso. Prof./ECE/SVCE - (9884811501) Google meet link-15: https://meet.google.com/tam-eyph-vkn
		Track-II	EEE	14756, 14847, 14892, 15211, 15213, 15217 Session Chair1: Dr.N K Mohanty,Prof./EEE/SVCE - (8668165607) Chair2: Dr.S G Bharathidasan, Asso. Prof./EEE/SVCE (9994423534) Google meet link-16: https://meet.google.com/qvn-okuw-hgr
Sl.No	Stream/ Track		Paper ID	
Day 1 (16th October – 2020), After Noon (02.45 a.m. –03.45 p.m.)				
5	Stream-I	Track-I	MECH	14726, 14727, 14732, 14752, 14754, 14757, 14761, 14762

				<p>Session Chair1: Dr.S.Saravanan,Prof/MEC/SVCE - (9994752977) Chair2: Dr. M. Puviyarasan, Prof/MEC/PEC - (9444838655) Google meet link-17: https://meet.google.com/xuv-ovqe-dky</p>
		Track-II	AUTO	<p>15224, 15243, 15244, 15246, 15250, 15308 Session Chair1: Dr.K.Bhaskar, Professor/AUT/REC - (9159474837) Chair2: Dr.V.Ganesh, Asso. Prof/AUT/SVCE - (6380883699) Google meet link-18: https://meet.google.com/rpe-wnjv-whx</p>
6	Stream-II	Track-I	CSE	<p>14786, 14812, 14814, 14826 Session Chair1: Dr J.M.Gnanasekar Prof./CSE/SVCE -(9444508360) Chair2: Dr N.Rajeswari, Asso.Prof./CSE/SVCE - (9444085192) Google meet link-19: https://meet.google.com/jyv-rwxg-bxx</p>
		Track-II	IT	<p>14806, 14810, 14811, 14813 Session Chair1: Dr.V.Vidhya, Prof & Head/IT/SVCE - (7339462720) Chair2: Ms. V.M.Sivagami, Asso. Prof/IT/SVCE (9884203202) Google meet link-20: https://meet.google.com/zai-rmrj-zym</p>
7	Steam-III	Track-I	CHE	<p>15303, 15304, 15306, 15307, 15309 Session Chair1: Dr.G.Arthanareeswaran, Prof. /CHE/NIT, Trichy- (9940361673) Chair2: Dr.R.Govindarasu, Asso. Prof./CHE/SVCE - (9444841014) Google meet link-21: https://meet.google.com/ynr-wpqq-bdg</p>
		Track-II	BIO	<p>14658, 14735, 14856, 15223, 15248, 15245, 15267, 15341 Session Chair1: Dr.R.B.Narayanan, Visiting Prof./Bio/AU-(9840459828)</p>

				Chair2: Dr. S. Prabhu, Prof.,/BIO/SVCE – (9840180535) Google meet link-22: https://meet.google.com/cvq-zmvd-awi
8	Stream-IV	Track-I	ECE	14779, 14780, 14782, 14783, 14796, 14798 Session Chair1: Dr.G.Padmavathi, Prof./ECE/SVCE - (9600138593) Chair2: Dr.R.Gayathri, Asso.Prof./ECE/SVCE - (9884811501) Google meet link-23: https://meet.google.com/xyj-fwud-mxf
		Track-II	EEE	15218, 15220, 15221, 15240 Session Chair1: Dr.Sudhakar K Bharathan,Prof./EEE/SVCE- (9487702103) Chair2: Mr.S.Kumaravel, A.P/EEE/SVCE - (9940695670) Google meet link-24: https://meet.google.com/qvn-okuw-hgr

Sl.No	Stream/ Track	Paper ID		
Day 2 (17th October – 2020), Fore Noon (10.15 a.m. –12.30 p.m.)				
9	Stream-I	Track-I	MECH	14775, 14792, 14830, 14841, 14846, 14849, 14870, 14903, 14926, 15190 Session Chair1: Dr.N.Venkateswaran, Prof & HoD/REC – (9444325794) Chair2: Dr.S.Ponnuvel, Asso. Prof./MEC/SVCE – (89393 29433) Google meet link-25: https://meet.google.com/zbj-qjno-wib
		Track-II	MECH	15202, 15203, 15204, 15208, 15212, 15219, 15233, 15241, 15251, 15253 Session Chair1: Dr. R.Ramesh, Prof/MEC/SVCE – (94452 47374) Chair2: Dr. S. Chezhan Babu, Prof./MEC/PEC – (9444953552) Google meet link-26: https://meet.google.com/emi-rgcb-wgj

10	Stream-II	Track-I	CSE	14835, 14890, 14929, 15026, 15200, 15242 Session Chair1: Dr Anitha R HOD/CSE/SVCE – (9952337212) Chair2: Dr N.M.Balamurugan, Asso.Prof./CSE/SVCE-(9445949121) Google meet link-27: https://meet.google.com/suq-enzf-dcx
		Track-II	IT	14819, 14821, 14822, 14855, 14871 Session Chair1: Dr.T.Sukumar, Asso. Prof/IT/SVCE - (9578074435) Chair2: Dr.C.Yaashuwanth, Asso. Prof/IT/SVCE -(9840956105) Google meet link-28: https://meet.google.com/yuo-zbbk-cqq
11	Stream-III	Track-I	CHE	14695,14899, 15310, 15312, 15318, 15322 Session Chair1: Dr. R. Senthilkumar, A.P/University of Technology and Applied Sciences, Suhar, Sultanate of Oman Chair2: Ms.Vijaya Lakshmi.A.C, A.P./CHE/SVCE – (98848 52020) Google meet link-29: https://meet.google.com/qry-pxne-pmq
		Track-II	Physics	14670, 14790 Session Chair: <u>Dr. A. Bhaskaran</u> , HOD/APH/SVCE - (9865613099) Google meet link-30: https://meet.google.com/pgm-ujif-ypw
12	Stream-IV	Track-I	ECE	14789, 14802, 14804, 14823, 14831, 14840, 14853 Session Chair1: Dr. B. Shanthini Prof./IT/St. Peters - (9345111200) Chair2: Dr.G.A.Sathish Kumar, Prof./ECE/SVCE-(9445265296) Google meet link-31: https://meet.google.com/jnc-dhbe-mox

Sl.No	Stream/ Track		Paper ID	
Day 2 (17th October – 2020), After Noon (01.00 P.m. –02.45 p.m.)				
13	Stream-I	Track-I	MECH	15254, 15256, 15257, 15260,15262, 15265, 15266 Session Chair1: Dr. N.Muthukrishnan,Prof/MEC/SVCE –(9884096626) Chair2: Dr.R.Murugan, Prof/MEC/PIT, (9976837999) Google meet link-32: https://meet.google.com/ufi-pqdg-tiv
		Track-II	MECH	14672, 15269, 15270, 15274, 15305, 15326 Session Chair1: Dr.S.Gopinath,Prof/MEC/SVCE – (94451 15107) Chair2: Dr. M. Selvaraj, Asso. Prof./MEC/SSN –(9944456575) Google meet link-33: https://meet.google.com/meo-jtjq-tdf
14	Stream-II	Track-I	CSE	15247, 15249, 15258, 15279 Session Chair1:Dr P. Janarthanan, Asso. Pro./CSE/SVCE - (9443087791) Chair2: Dr R.Jayabhaduri, Asso.Prof./CSE/SVCE - (9444117480) Google meet link-34: https://meet.google.com/xjk-hwpz-mgo
15	Stream-III	Track-I	CHE/ Chemistry	15271, 15302, 15319, 15320, 15321,15326 Session Chair1: Dr.K.Haribabu, A.P./ CHE/NIT, Calicut-(+919495224777) Chair2: Dr. R.Palani, Asso.Prof./CHE/SVCE - (+919840633197) Google meet link-35: https://meet.google.com/qmd-ojrw-jyw
16	Steam-IV	Track-I	ECE	14862, 15210, 15214, 15261 Session Chair1: Dr. B. Shanthini Prof./IT/St. Peters - (9345111200) Chair2: Dr.G.A.Sathish Kumar, Prof./ECE/SVCE- (9445265296) Google meet link-36: https://meet.google.com/nku-uvns-osv

KEYNOTE SESSION – 1 REPORT

Mr. Jayaharan C J, PMP, Deputy General Manager - IIoT and Automation Projects, Enterprise Process Solutions, Ramco Systems Limited, Chennai delivered the keynote session on Future of Industrial Automation. Dr. S. Muthukumar, HoD/ECE introduced the chief guest to the audience and also the vote of thanks. Mr. Jayaharan explained about the various elements of Industry 4.0 and explained about the challenges the company will be facing due to the automation.

The image displays four screenshots from a Zoom meeting, arranged in a 2x2 grid. The top-left screenshot shows a man with glasses speaking. The top-right screenshot shows a man with glasses and a headset speaking. The bottom-left screenshot shows a slide titled "Mobile Applications" with text and a smartphone image. The bottom-right screenshot shows a slide titled "Cloud controlled vehicle..Olli runs on IBM Watson" with a diagram of a vehicle and its sensors.

Mobile Applications

Mobiles have become an indispensable part of our day to day life.

With the connectivity and data cost becoming more affordable, flexibility in carrying mobile anywhere, cheaper device, BYOD etc. is helping the penetration of mobile usage in the Factories.

Mobile Apps:

- ✓ Improve the overall efficiency of the operations in the factories.
- ✓ Alert employers instantaneously on any critical issues.
- ✓ Improve timely, precise, error free data collection which improves the quality of the overall product and process.
- ✓ Wearables helps hands free operation improving effectiveness

Cloud controlled vehicle..Olli runs on IBM Watson

Rear facing LIDAR (1) Forward facing LIDAR (3)

Interior Cameras (2) Stereo camera (sign recognition)

Interior temperature sensor Exterior temperature sensor

Passenger Counter Window fog sensors (2)

GPS Odometer sensors (4)

Wheel speed sensors (4) Impact sensors (2)

Suspension rotation sensors (2) Wheel speed sensors (4)

 Suspension rotation sensors (2)

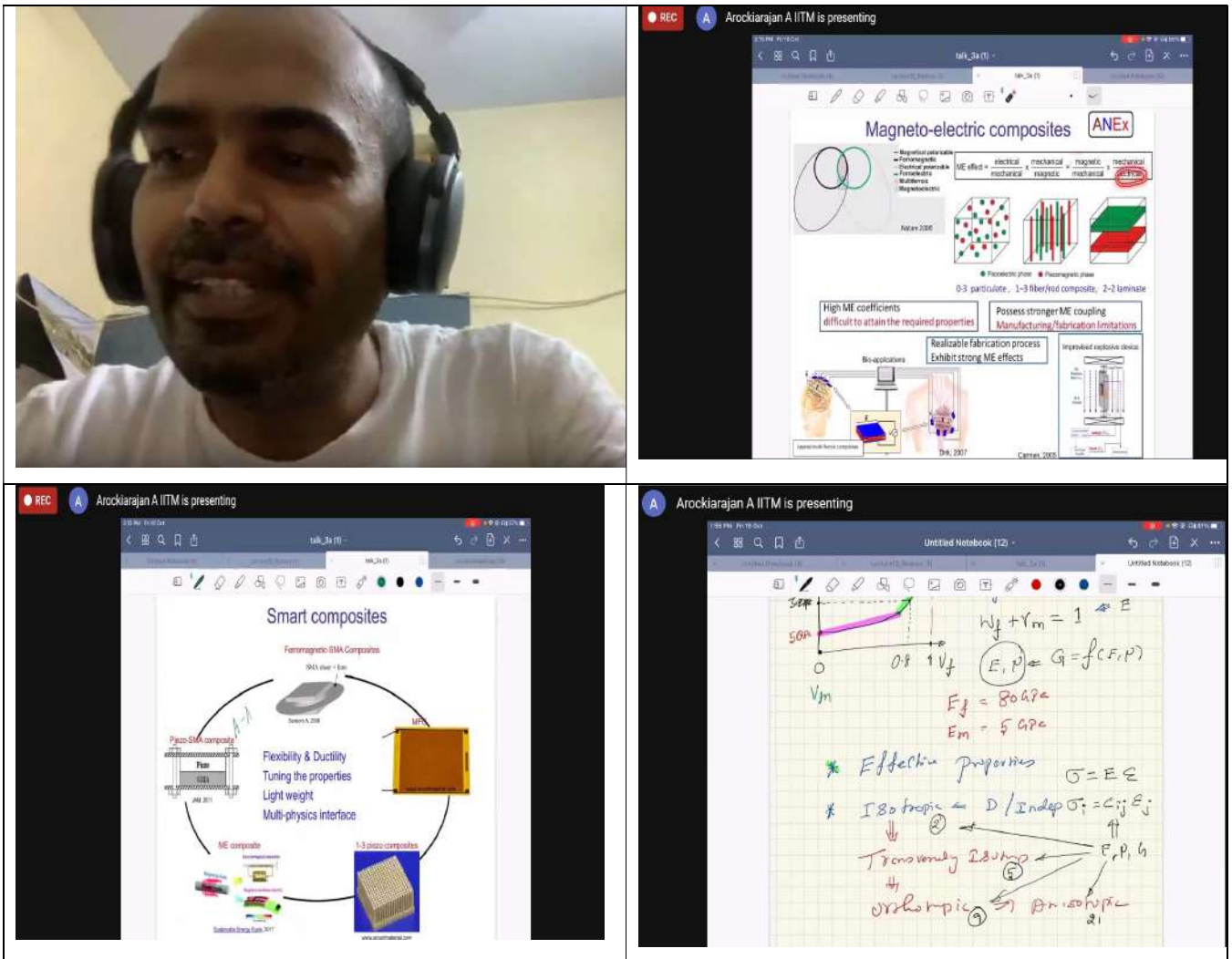
 Suspension height sensors (2)

CIVIL/AUTO/MECH/MAR STREAM

KEYNOTE SESSION – 2- REPORT


Dr. A. Arockiarajan, Professor, Dept. of Applied Mechanics, IIT Madras, delivered the expert lecture on Mechanics of smart materials. Dr. A. Arockiarajan emphasized the need for smart materials in the current scenario and also explained the modelling aspects of smart materials to the participants.

Dr. P. Venkateswara Rao, Professor, Civil Engineering introduced the chief guest and also delivered the vote of thanks



KEYNOTE SESSION – 3- REPORT

Dr. T Ram Prabhu, Scientist and Deputy Director, DRDO, Govt of India delivered an expert lecture on Research scopes in Metal additive Manufacturing. Dr. Ramprabhu explained the various materials than can be used for metal additive manufacturing and also explained the challenges while using those materials. Dr. Ramprabhu also explained the need for metal additive manufacturing for various space application components. Dr. M. Mohandass, Associate Professor in Mechanical Engineering department introduced the chief guest and also presented the vote of thanks.

	<p>REC Dr Ram Prabhu T is presenting</p> <h3>Classification</h3> <ul style="list-style-type: none"> Metal & Alloys: <ul style="list-style-type: none"> Powder Bed Systems <ul style="list-style-type: none"> Laser /Electron beam Binder jetting Powder Feed Systems <ul style="list-style-type: none"> Laser /Electron beam Wire Feed Systems <ul style="list-style-type: none"> Electron beam / Laser beam / Plasma arc / Electric arc Polymers: <ul style="list-style-type: none"> VAT Photo Polymerization Fused Deposition Modeling Material Jetting Digital Light Processing Fused Filament Fabrication <h3>Popular Processes</h3> <ul style="list-style-type: none"> New Part Development <ul style="list-style-type: none"> Laser Powder Bed Fusion (EOS) → Manufacturers <ul style="list-style-type: none"> 3D Systems (US) Concept Laser (DE) EOS (DE) Matsuura (JP) Realizer (DE) Renishaw (UK) SLM Solutions (DE) Part Salvaging / Repair (DED Method) <ul style="list-style-type: none"> Wire Arc Additive Manufacturing Laser Metal Deposition (Laser Powder Blown) 
<h3>Al alloys</h3> <p>Applications</p> <ul style="list-style-type: none"> Air frame structures for subsonic/Sonic/Supersonic Aircraft and UAVs <ul style="list-style-type: none"> Wing spar Bulk head, ribs, slot, brackets, fin, beams, fittings, skins, floor panels Fuselage frames Landing gear components Gear box casing Fuel and electrical systems Engine IGV in fan module/duct Stress non critical parts Missile structures Applicability – System exposed to < 120° C, Sea water exposure, Stress < 150-250 MPa <p>Grades amenable to AM</p> <ul style="list-style-type: none"> Al10SiMg (460 MPa) Al12Si AlF357 (390 MPa) <p>Proposal may be written on the following aspects</p> <ul style="list-style-type: none"> Laser scattering effects on Al alloys Precipitation hardening studies SCC studies on Al-Zn grades HCF (S-N Curve) and K_{IS} studies Pitting corrosion studies and Anodizing/Chromating studies Nano grain structure development Working temperature improvement for Al alloys Process Map design for New/Existing grades Wrought alloy grades (2xxx, 6xxx, 7xxx) Al-Li alloys development 	<h3>Ti alloys</h3> <p>Applications</p> <ul style="list-style-type: none"> Air frame structures for Hypersonic Aircraft <ul style="list-style-type: none"> Wing spar, Bulk head, Fuselage frames Landing gear components High strength fasteners (Bolts) Helicopter blades Filings Solid propulsion tanks - Missiles Aero engine <ul style="list-style-type: none"> Compressor disks Compressor blades Stress critical attachments Applicability – System exposed to < 500° C, Stress < 700 MPa <p>Grades amenable to AM</p> <ul style="list-style-type: none"> Ti6Al4V (1270 MPa) Ti6Al4V ELI (1050 MPa) Commercial Pure Ti (660 MPa) <p>Proposal may be written on the following aspects</p> <ul style="list-style-type: none"> Texture hardening or weakening studies (Due to HCP) S.T + Ageing studies (Effects of α, β, α', Martensite phases fraction/morphology on the properties) LCF studies (Cyclic strain – N curve) SCC and Hydrogen embrittlement Stress rupture studies Notch sensitivity Hot corrosion (Sulphide, Ammonia, Hydroxide atmosphere) and oxidation Coating studies on Ti alloys Hot erosion studies

BIO TECHNOLOGY / CHEMICAL/ APPLIED SCIENCE STREAM

KEY NOTE LECTURE 2 - BIOTECHNOLOGY

The session speaker Dr. P. A. Balakumaran (Microbial Processes and Technology Division (MPTD) CSIR- NIST, Thiruvananthapuram), presented a keynote lecture on 13C Based Metabolic Flux Analysis (13C – MFA). The speaker gave a detailed session about 13C and metabolic flux analysis. The session was interactive with the students and participants. Finally, the session was concluded with Q&A session with the session participants.

KEY NOTE LECTURE 3 –CHEMICAL ENGINEERING:

The second day of the AICTE sponsored International Conference SMETI2020 started with the welcome note by Ms. Apoorva Ravi of III year Chemical Engineering, who was coordinating the session. Dr. N. Meyyappan, HoD / CHE introduced the keynote speaker of the day, **Mr. K. Sadanand, Regional Sales Director: SEA – Industrial Water Technologies, Solenis Singapore Pte Ltd., South East Asia Division, JAKARTA, INDONESIA.**

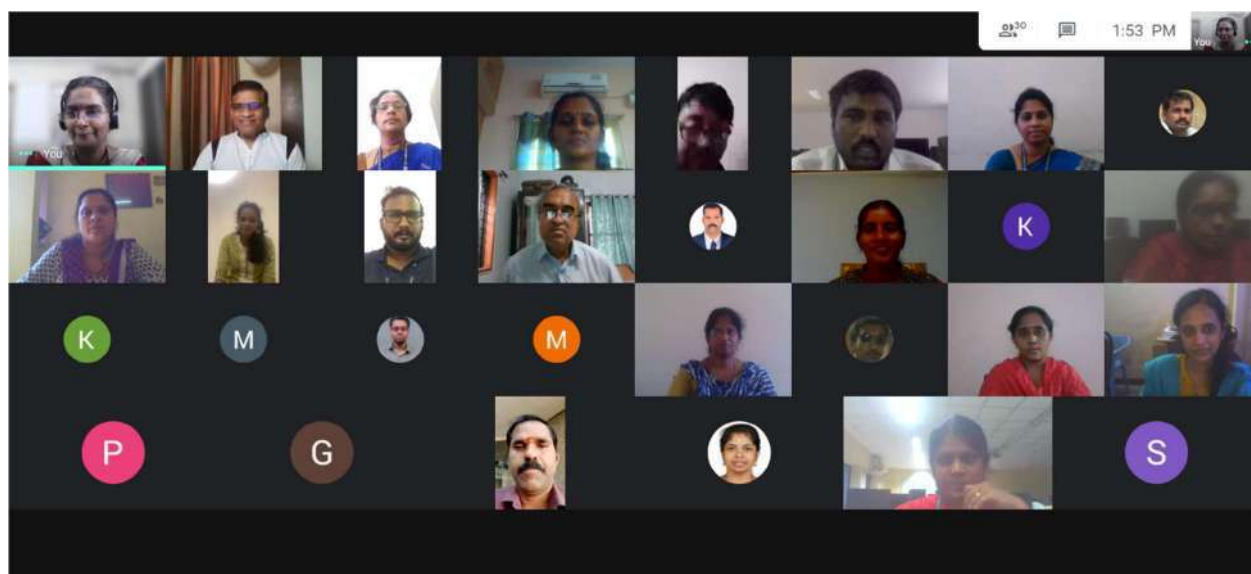
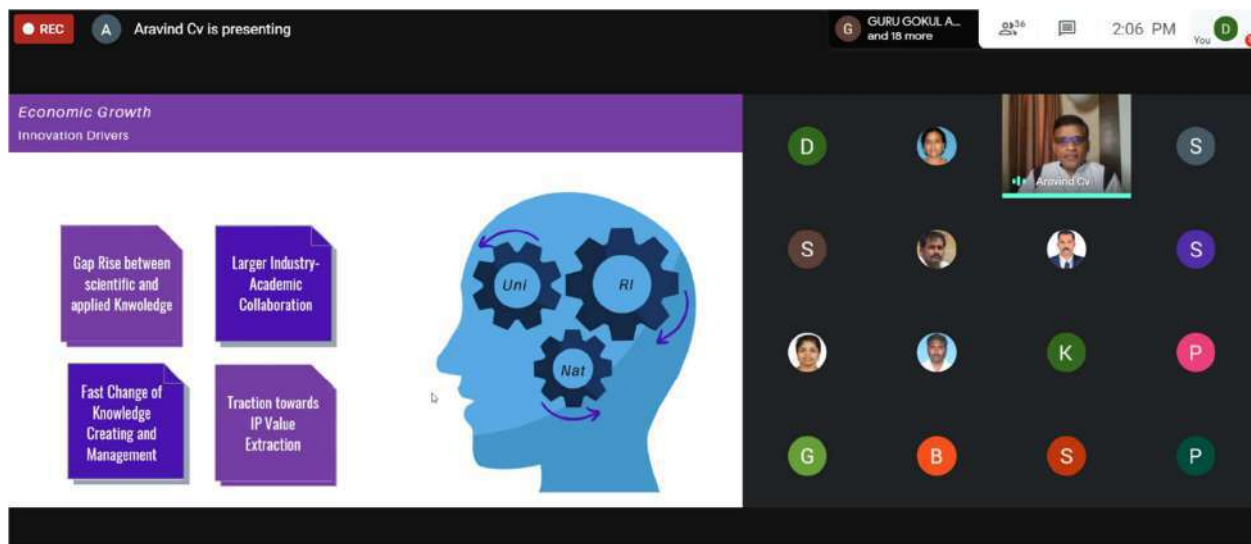
The session speaker **Mr. K. Sadanand** presented the keynote lecture on **Insight into Total Water Management**. He gave a detailed explanation on properties of water; contaminants present in natural source & wastewater. He discussed about various methods in which water treatment happens in industries and concepts of water treatment process. He had also gave a detailed overview on various emerging technologies in the field of water treatment and their impacts on the process. The session was attended by around **80 members** and the speaker was very interactive with the students and participants. Mr. Karthik Mohandass

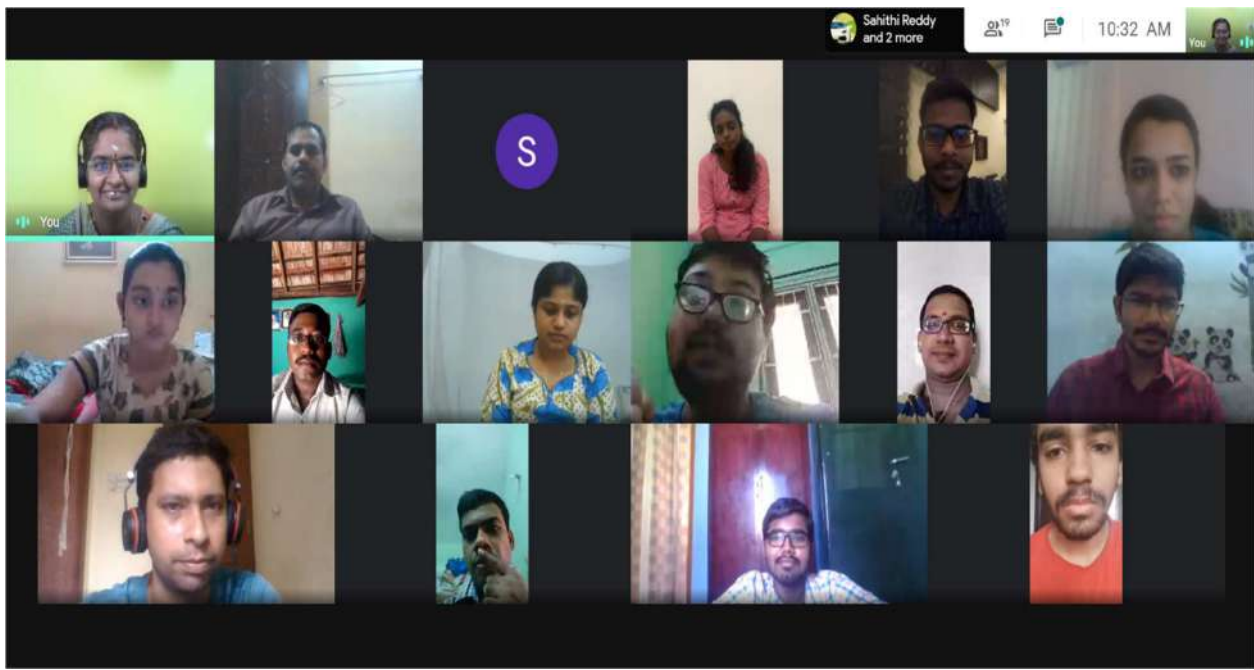
and Mr. Shesharam Chouhan, colleagues of the keynote speaker, also joined the session and gave valuable inputs regarding the process and about the prospects on Chemical Engineering, in general.

Finally, the session concluded with the Thanksgiving message by Ms. A.C. Vijaya Lakshmi, AP / CHE and Organizing Secretary of the Chemical Engineering Stream in the conference.

KEY NOTE LECTURE 2 – INFORMATION TECHNOLOGY

The session speaker Dr. Dr. Ts. Chockalingam Aravind Vaithilingam (Associate Professor, Taylor's University, Malaysia), presented a keynote lecture on “University as central piece Innovation Driver within the IR 4.0 Ecosystem”. The speaker gave a detailed session about IR 4.0 ecosystem. The session was interactive with the students and participants. Finally, the session was concluded with Q&A session with the session participants.





KEY NOTE LECTURE 3 – COMPUTER SCIENCE AND ENGINEERING

The session speaker Dr V. Masilamani, Associate Professor in Computer Science and Engineering, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram. Presented a keynote lecture on “Some Machine Learning Algorithms for Image Quality Prediction and Application”. The speaker gave a detailed session about image quality prediction. The session was interactive with the students and participants. Finally, the session was concluded with Q&A session with the session participants.

ECE / EEE stream

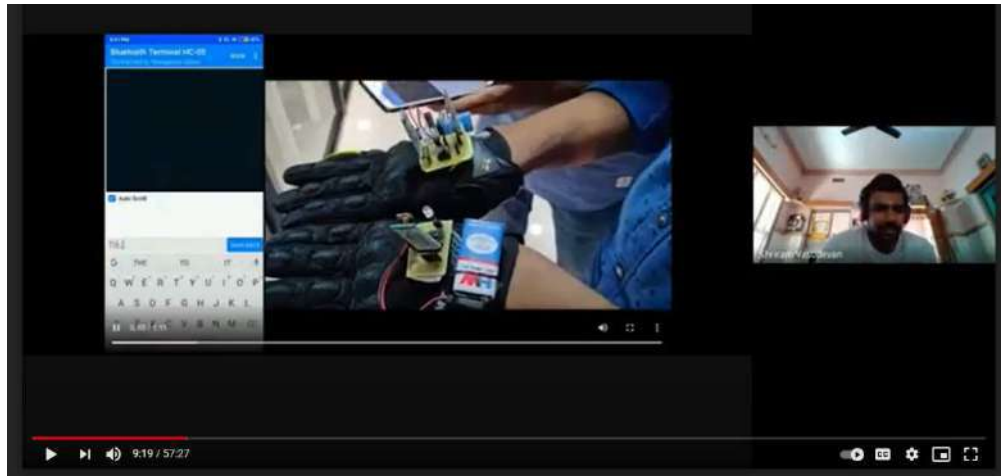
KEY NOTE -2

The keynote speaker, for track I and II was Dr.V.Vaidehi, Vice chancellor, Mother Theresa University, Kodaikanal, Tamil Nadu, who gave the keynote address on “Machine Learning in IoT”. Dr.K.R.Shantha, Vice Principal, SVCE, introduced Dr.V.Vaidehi, to the audience. The speaker gave a brief lecture on ‘why ML’, types of ML, ML routing, ML in data aggregation, IOT, Smart Measurement, Applications of IOT, IOT instrumentation in industry, IOT with cloud, IOT challenges, etc. The session was very informative.

KEY NOTE -2

The second day of the conference started with a Keynote Address. The keynote speaker, for track I and II was Dr. Shriram Vasudevan, Associate Professor / ECE, Amrita University, Coimbatore, Tamil Nadu, who gave the keynote address on "Innovation with the IoT and Deep Learning". The keynote speaker was introduced to the audience by Dr.S.R.Malathi. The talk was very inspiring to all the participants. The speaker emphasized to think about simple problems around any individual in the society and methods to solve them

using the technology available with us. Some notable projects were also highlighted and demonstrated. The smart indicator project, Surface water quality monitoring project, inventory monitoring using drone, Fall detection for elderly people, Detecting Miss placed items using Deep Learning, were all simply superb. A total of 45 participants attended the session. Finally the session coordinator Dr.S.R.Malathi, thanked the Vice Principal Dr.K.R.Shantha madam, Dr.S.Muthukumar Sir, HOD-ECE, all the Professors and faculty members of ECE and EEE department, Researchers and participants, dear students, for attending the session.



Technical Session Report

Auto / Civil / Mechanical / Marine Stream

Technical Session - 1

Date : 16.10.2020 Time :- 11.40 a.m to 1.00 pm

Sr. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best paper ID
1	Stream-I / Track 1	Dr. K.S.Badrinathan, Prof. MEC/SVCE & Dr V MuthuKumar, Prof./Mech/SEC	14650, 14655, 14677, 14690, 14709, 14711, 14725	7	14677
2	Stream-I / Track 2	Dr.J.Venkatesan, Prof. & Head/AUT/SVCE & Dr.S.Premnath, Asso. Prof./AUT/SVCE	14745, 14755, 14767, 14817, 14842, 15215	6	14745
3.	Stream-I / Track 3	Prof. S Kalidoss, MAR/SVCE & Mr. V. Guruswamy, MAR/SVCE	14723, 15255, 15259, 15328, 15342	5	15328
4.	Stream-I / Track 4	Dr.R.Kumutha, HOD/CVE/SVCE & Dr.R. Subashchandrabose, HOD/CVE/Visvodaya Engineering College, Nellore	14737, 15277,15311, 15314, 15315, 15323	6	15323

REC

Influence of Stacking Sequence on Mechanical and Wear Characteristics of Epoxy based Flax/Sisal Composite Laminates

Dr. R. Murugan, Professor

G. Rupesh

S. Stephen Paul Samson

Dr. Paul Theophilus Rajakumar, Professor

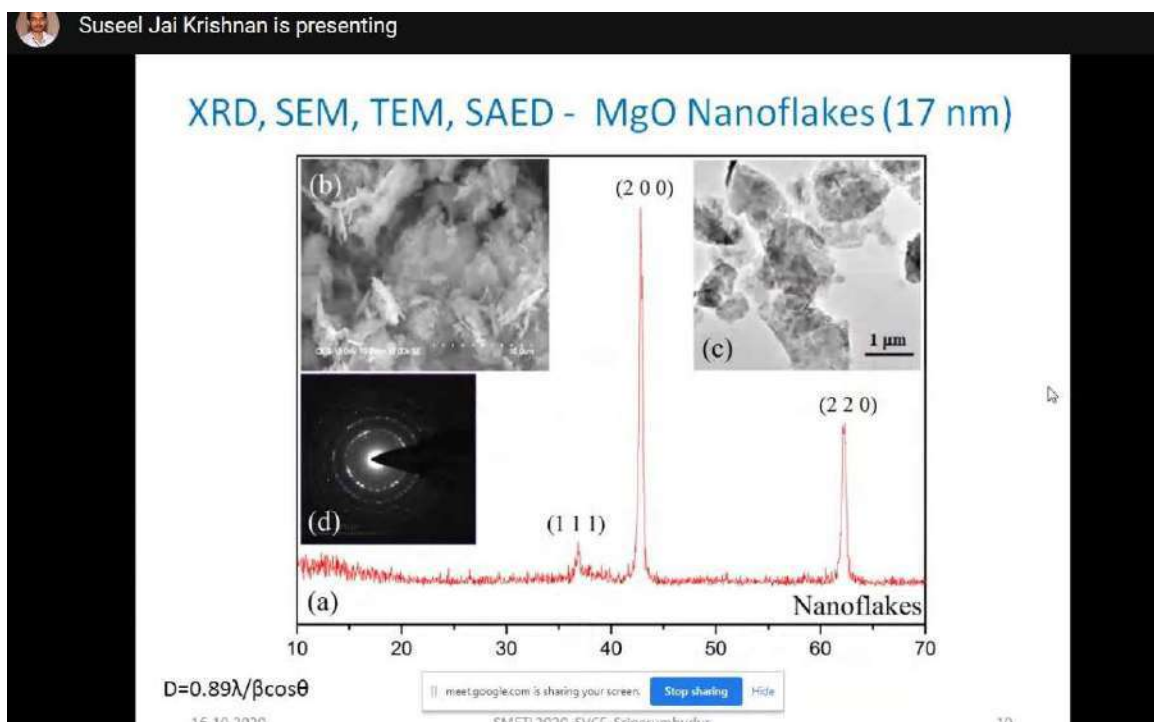


Department of Mechanical Engineering,
Panimalar Institute of Technology,

Technical Session – 2

Date : 16.10.2020 Time :- 2.45 p.m to 3.45 pm

Sr. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best paper ID
1	Stream-I / Track 1	Dr.S.Saravanan,Prof/MEC/SVCE & Dr. M. Puviyarasan, Prof/MEC/PEC	14726, 14727, 14732, 14752, 14754, 14757, 14761, 14762	8	14761
2	Stream-I / Track 2	Dr.K.Bhaskar, Professor/AUT/REC & Dr.V.Ganesh, Asso. Prof/AUT/SVCE	15224, 15243, 15244, 15246, 15250, 15308	6	15243



Technical Session - 3

Date : 17.10.2020 Time :- 10. 15 a.m to12.15 pm

Sr. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best paper ID
1	Stream-I / Track 1	Dr.N.Venkateswaran, Prof & HoD/REC & Dr.S.Ponnuvel, Asso. Prof/MEC/SVCE	14775, 14792, 14830, 14841, 14846, 14849, 14870, 14903, 14926, 15190	10	15190
2	Stream-I / Track 2	Dr. R.Ramesh, Prof/MEC/SVCE & Dr. S. Chezhan Babu, Prof./MEC/PEC	15202, 15203, 15204, 15208, 15212, 15219, 15233, 15241, 15251, 15253	10	15253

REC Dr. THIRUMALAI KANNAN K SNSCE is presenting

Assessment of Tribological Properties of Different Vegetable Oils Emulsions Using Pin on Disc Tribometer

Presented by,
R. Ruthuraj,
Assistant Professor,
Department of Mechanical Engineering,
SNS College of Engineering,

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Technical Session – 4

Date : 17.10.2020 Time :- 1.00 p.m to 2.45 pm

Sr. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best paper ID
1	Stream-I / Track 1	Dr. N.Muthukrishnan, Prof/MEC/SVCE & Dr.R.Murugan, Prof/MEC/PIT	15254, 15256, 15257, 15260, 15262, 15265, 15266	7	15256
2	Stream-I / Track 2	Dr.S.Gopinath, Prof/MEC/SVCE & Dr. M. Selvaraj, Asso. Prof./MEC/SSN	14672, 15269, 15270, 15274, 15305, 15326	6	15305

REC Deepak Sundrani is presenting

Paper ID 14672

Application of 3D printing in Construction: Some case studies

Deepak Sundrani
NICMAR, Pune

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Chemical / Biotech and Applied Science Stream

The technical sessions for the Stream III of the Chemical and Biotechnology Departments started with a warm welcome speech by Dr. N. Meyyappan, HOD/CHE, followed by the first technical session of the Stream.

TECHNICAL SESSION 1:

The First Technical Session of the stream was chaired by Dr.Nalinkanth.V.Ghone, Prof &Asst.HoD / CHE and Dr.M.Yogeshkumar, ASP / CHE. Ms.G.Sudha, AP / CHE and Dr.G.Saraswathi AP / CHE introduced the session chairs respectively to the participants. **88 members** have attended this session, and a total of **6 papers** were presented.All the presented papers were competitive to each other. This session was well coordinated by Ms.Selvapreethi, III year Chemical Engineering

TECHNICAL SESSION 2:

The Second Technical session was conducted as two tracks, one with Chemical Engineering and the other with Biotechnology.

TRACK:1 – CHEMICAL ENGINEERING:

Track 1 session, technical session in the Chemical Engineering stream was initiated with the a short note by Dr.N.Meyyappan, HoD / CHE. This session was chaired by Dr.G.Arthanareeswaran, Prof. /CHE/NIT, Trichy and Dr.R.Govindarasu, Asso. Prof. / CHE. Dr.N.P.Kavitha, AP / CHE and Dr.G.Manikandan AP / CHE introduced the session chairs respectively to the participants. 80 members have attended this session, and a total of **5 papers** were presented. All the presented papers were well received and were competent to each other. Ms.S.V.Shriraghavi of III year Chemical Engineering, coordinated this session in a neat fashion.

TRACK:2 – BIOTECHNOLOGY:

Track 2 session, technical session in the Biotechnology stream was initiated with the a short note by Dr.V.Sumitha, HoD i/c / BIO. This session was chaired by Dr.R.B.Narayanan, Visiting Prof. / AU Chennai and Dr.S.Prabhu, Prof. / BIO. Dr.Nalinkanth V Ghone also acted as a chair for this session. Around 30 members have attended this session, and a total of **8 papers** were presented. All the presented papers were well received and were competent to each other.

TECHNICAL SESSION 3:

The Third Technical Session of the stream was chaired by Dr. R. Senthilkumar, A.P/UTAS, Sultanate of Oman, and Ms.VijayaLakshmi.A.C, A.P./CHE. Dr.N.Meyyappan, HoD / CHE and Ms.N.Sundari, AP / CHE introduced the session chairs respectively to the participants. Dr.C.Anandbabu, Former Director, IGCAR and Former Professor, SVCE also joined the session. HoD / CHE, welcomed him and introduced him to the participants. He also invited him to chair the session along with others. **52 members** have attended this session, and a total of **6 papers** were presented. All the presented papers were competitive to each other. This session was well coordinated by Ms.Apoorva Ravi of III year Chemical Engineering.

TECHNICAL SESSION 4:

The fourth technical session in the Chemical Engineering stream was chaired by Dr.K.Haribabu, AP / CHE/NIT, Calicut, and Dr. R. Palani, ASP./CHE.Mr.S.Jaiganesh, AP / CHE and Dr.V.Divya AP / CHE introduced the session chairs respectively to the participants. **48 members** have attended this session, and a total of **5 papers** were presented. All the presented papers were well received and were competent to each other. Mr.M.S.Shreeyas of II year Chemical Engineering, coordinated this session in an organised manner. As all the sessions of the stream came to an end, Ms.A.C.Vijaya Lakshmi, AP / CHE and Organising Secretary of the Chemical Engineering Stream in the conference gave the thanks note to all those supported the smooth conduct of the sessions.

CSE / INT STREAM TECHNICAL SESSION REPORT **TECHNICAL SESSION I & II – PAPER PRESENTATION**

16thOctober, 2020

Sr. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best Paper ID
1	II/I (CSE)	Dr C Jayakumar Professor/CSE Dr K.S.Gayathri Associate Professor/CSE	14661, 14664, 14733, 14740, 14751	5	14751
2	II/I (CSE)	Dr J.M.Gnanasekar Prof./CSE Dr N.Rajeswari, Asso.Prof./CSE	14786, 14812, 14814, 14826	4	14786
3.	II/II (INT)	Dr.G.Sumathi, Prof/INT,SVCE Ms.N.Devi Assit.Prof/INT,SVCE	14689,14753,14763,14795,1 4805	5	14689
4.	II/II (INT)	Dr.V.Vidhya, Prof&Head/INT, SVCE & Ms.V.M.Sivagami Assoc.Prof/INT,SVCE	14806,14810,14811,14813	4	14811

TECHNICAL SESSION III & IV – PAPER PRESENTATION

17thOctober, 2020

Sr. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best paper ID
1	II/I (CSE)	Dr Anitha R HOD/CSE/SVCE Dr N.M.Balamurugan, Asso.Prof./CSE/SVCE	14835, 14890, 14929, 15026, 15200, 15242	6	
2	II/I (CSE)	Dr P. Janarthanan, Asso. Pro./CSE/SVCE Dr.R.Jayabhaduri, Asso.Prof./CSE/SVCE	15247, 15249, 15258, 15279	4	15249
3.	II/II (INT)	Dr.T.Sukumar Assoc.Prof/INT,SVCE Dr.C.Yaashuwanth Assoc.Prof/INT,SVCE	14819,14821,14822,14855,14871	5	14871

SESSION REPORT

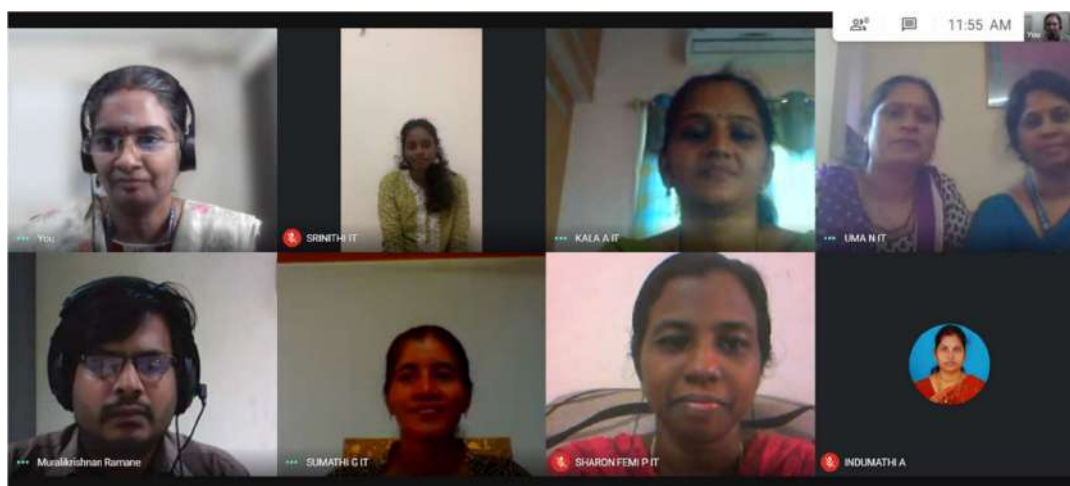
TECHNICAL SESSION 1: Technical session I was conducted as two tracks, one with Computer Science (Track I) and the other with Information Technology (Track II)

TRACK I-CSE

The First Technical Session of the stream was chaired by **Dr C Jayakumar** Professor/CSE **Dr K.S.Gayathri** Associate Professor/CSE. Totally **5 papers** were presented. All the presented papers were competitive to each other.

TRACK II-INT

The First Technical Session of the stream was chaired by Dr.G.Sumathi, Prof/INT, SVCE and Ms.N.Devi, Assit.Prof/INT, SVCE. Ms.Srinidhi, student of third year INT introduced the session chairs respectively to the participants. Totally **5 papers** were presented. All the presented papers were competitive to each other.



TECHNICAL SESSION 2: Technical session II was conducted as two tracks, one with Computer Science (Track I) and the other with Information Technology (Track II)

TRACK:1 – CSE:

This session was chaired by Dr J.M.Gnanasekar Prof./CSE and Dr N.Rajeswari, Asso.Prof./CSE. Totally **4 papers** were presented. All the presented papers were well received and were competent to each other.

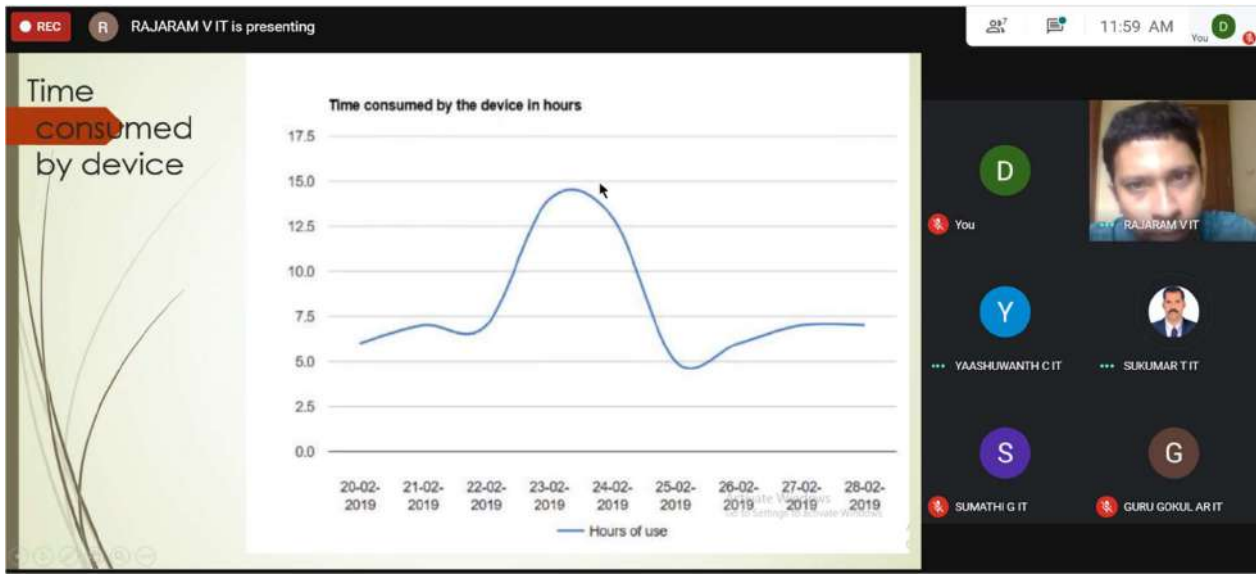
TRACK: II - INT

This session was chaired by Dr.V.Vidhya, Prof & Head/INT, SVCE and Ms.V.M.Sivagami, Assoc.Prof/INT, SVCE. Ms.Srinidhi, third year student of INT introduced the session chairs respectively to the participants. Totally **4 papers** were presented. All the presented papers were well received and were competent to each other.

TRACK III – INT:

Technical Session III of the stream was chaired by Dr.T.Sukumar, Assoc.Prof/INT, SVCE and Dr.C.Yaashuwanth, Assoc.Prof/INT, SVCE. Ms.Srinidhi, third year student of INT introduced the session

chairs respectively to the participants. Totally 5 **papers** were presented. All the presented papers were competitive to each other.



TECHNICAL SESSION 4:

TRACK I –CSE:

Technical Session III of the stream was chaired by Dr P. Janarthanan, Asso. Pro./CSE/SVCE, Dr.R.Jayabhaduri, Asso.Prof./CSE/SVCE. Totally 4 **papers** were presented.

As an overview, 2 keynote lectures (**one** at the International level and **one** at the National level) and ---- technical papers (--- from Computer Science and **14** from Information Technology Department) were presented in the conference.

ECE / EEE Technical Session Report

TECHNICAL SESSION I & II – PAPER PRESENTATION

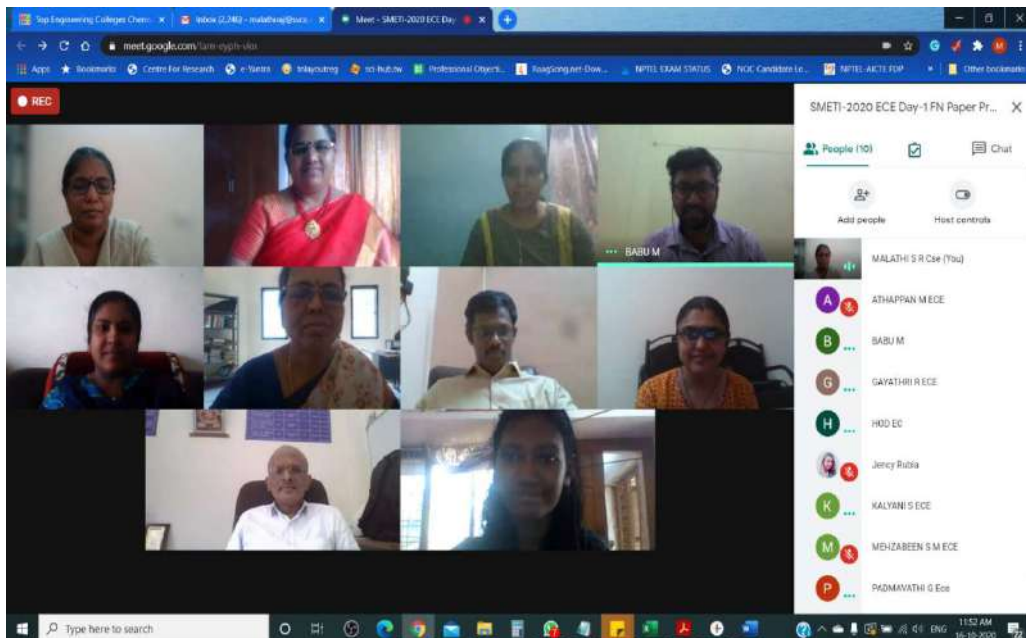
Day-1 (16th October, 2020)

Sl. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best Paper ID
1.	IV/I (ECE)	Dr.G.Padmavathi Professor /ECE/ SVCE Dr.R.Gayathri Assoc. Prof. /ECE/ SVCE	14651, 14750, 14756, 14758, 14769, 14777	6	14750
2.	IV/I (ECE)	Dr.G.Padmavathi Professor /ECE/ SVCE Dr.R.Gayathri Associate Professor /ECE/ SVCE	14779, 14780, 14782, 14783, 14796	5	14779
3.	IV/II (EEE)	Dr.S G Bharathidasan Assoc. Prof. /EEE/SVCE Dr. N K Mohanty Professor/EEE/SVCE	15214, 14847, 14892, 15211, 15213, 15217	6	14847

4.	IV/II (EEE)	S.Kumaravel Assistant. Prof/EEE/SVCE Dr. Sudhakar K B Professor/EEE/SVCE	15218, 15220, 15221, 15240	4	15218
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Day-1 (16-10-2020) (11.40 a.m. - 01.00 p.m) / Stream IV / Track – I / ECE / Technical Session – I

The technical session under Stream IV, Track-I was started with a welcome address by **Dr. S. Muthukumar, HOD/ECE**. The session was chaired by Dr.G.Padmavathi, Professor /ECE/ SVCE and Dr.R.Gayathri, Assoc. Prof. /ECE/ SVCE. The number of papers presented in this session was 6 and the total participants were 14. The paper-id 14750, titled 'Design and Analysis of Digital FIR Filter Using RLNS Fixed-Width Multiplier' was selected as the best paper out of the presented papers in this session. The session coordinator thanked the session chairs and the participants.



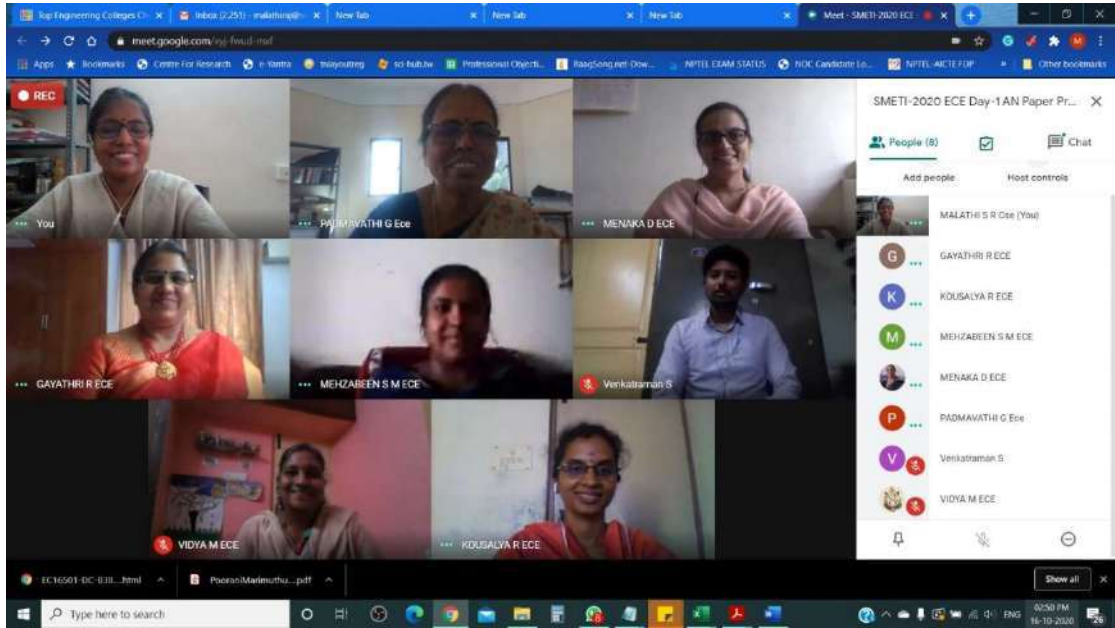
Day-1 (16-10-2020) (11.40 a.m. - 01.00 p.m) / Stream IV / Track – II / EEE / Technical Session – I

The First Technical Session of the stream was chaired by Dr. S G Bharathidasan, Asso. Prof / EEE / SVCE and Dr. N K Mohanty / Professor/EEE/SVCE. R.Karthikeyan welcomed the participants and introduced the session chairs. 12 members have attended this session, and a total of 6 papers were presented. All the presented papers were competitive to each other.

Day-1 (16-10-2020) (2.45 AM - 3.45 PM) / Stream IV / Track-I / ECE / Technical Session-II

In the second technical session the number of papers presented was 5 and the total participants were 15. The session was chaired by Dr.G.Padmavathi, Professor /ECE/ SVCE and Dr.R.Gayathri Assoc. Prof. /ECE/ SVCE. The paper-id 14779, titled ' A Survey on Automated Analysis of Multispectral Human

Chromosome Images ' was selected as the best paper out of the presented papers in this session. The session coordinator thanked the session chairs and the participants.



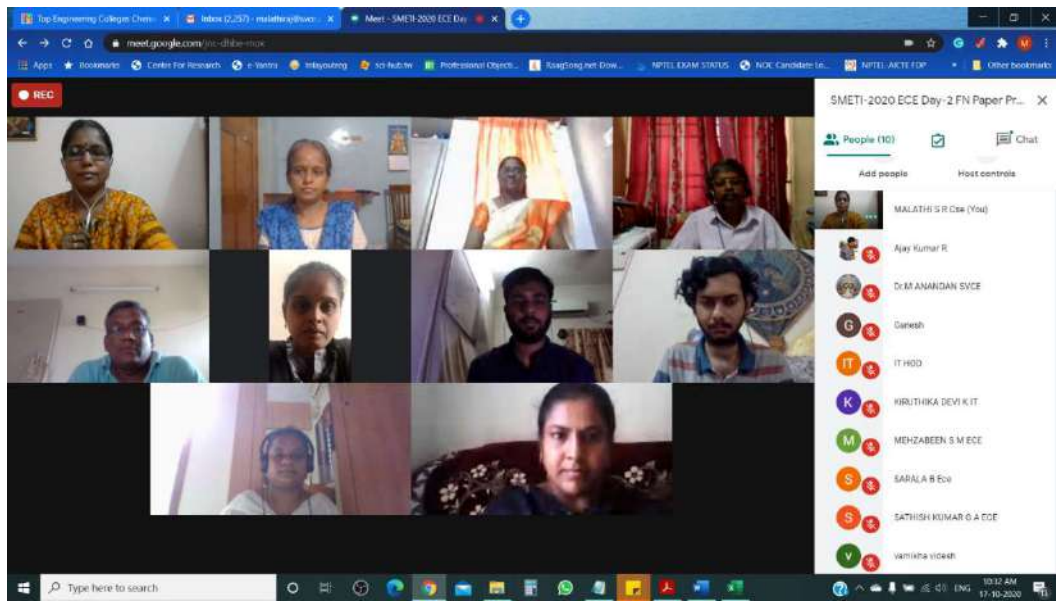
Day-2 (17-10-2020) (10.15 AM - 12.30 PM) / Stream IV / Track-I / ECE / Technical Session-III

TECHNICAL SESSION III & IV – PAPER PRESENTATION

Day-2 17th October, 2020

Sr. No	Stream/Track	Session Chairperson	Paper ID	No of papers	Best paper ID
1.	IV/I (ECE)	Dr. B. Shanthini Professor and HOD-IT St.Peter’s Institute of Higher Education and Research, Avadi, Chennai, TN. Dr.G.A.Sathish Kumar Professor /ECE/ SVCE	14789, 14802, 14804, 14823, 14831, 14840, 14853	7	14789
2.	IV/I (ECE)	Dr. B. Shanthini Professor and HOD-IT St.Peter’s Institute of Higher Education and Research, Avadi, Chennai, TN. Dr.G.A.Sathish Kumar Professor /ECE/ SVCE	14862, 15210, 15261, 14798, 14815	5	14862

After the keynote address the third technical session was started. The session was chaired by Dr. B. Shanthini, Professor and HOD-IT, St.Peter’s Institute of Higher Education and Research, Avadi, Chennai, TN and Dr.G.A.Sathish Kumar, Professor /ECE/ SVCE. The number of papers presented was 7 and the total participants were 15. The paper-id 14789, titled “Design of an area efficient and low power Composite S-box using Reversible logic cryptographic design” was selected as the best paper out of the presented papers in this session. The session coordinator thanked the session chairs and the participants.



Day-2 (17-10-2020) (1.00 PM - 2.45 PM) / Stream IV / Track-I / ECE / Technical Session-IV

The fourth technical session was also chaired by Dr. B. Shanthini, Professor and HOD-IT, St.Peter’s Institute of Higher Education and Research, Avadi, Chennai, TN and Dr.G.A.Sathish Kumar, Professor /ECE/ SVCE. The number of papers presented was 5 and the total participants were 12. The paper-id 14862, titled “A High-Performance Handwritten Character Recognition System Using Alex-Net Based on CNN for Tamil Language” was selected as the best paper out of the presented papers in this session. The session coordinator thanked the session chairs and the participants



The technical sessions for the two-day conference was conducted smoothly under Stream IV / Track-I (ECE) and Track-II (EEE) with two keynote address by eminent personalities.

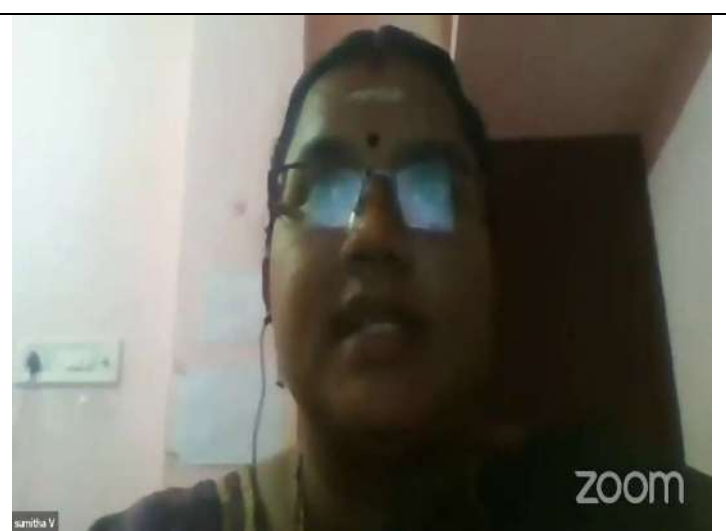
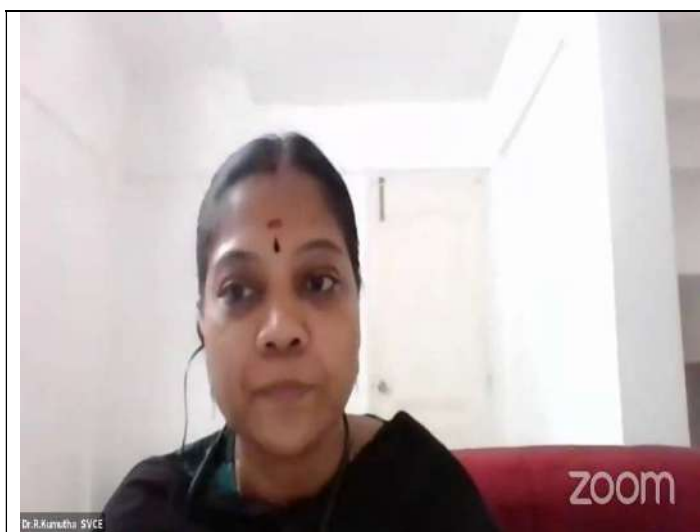
Valedictory report

The Valedictory function of the two-day online international conference on Smart Materials and Emerging Technologies for Industry 4.0 (SMETI 2020) was held on 16th and 17th October 2020 through online mode. Dr. V. Vidhya, HoD/Information Technology welcomed the dignitaries and also the participants. Prof. S. Krishnan, HoD/Marine Engineering department was the special guest for the valedictory function. The presidential address was delivered by Dr. S. Ganesh Vaidyanathan, Principal, SVCE. In his address he elaborated that the essential goal of Industry 4.0 is to make manufacturing – and related industries such as logistics – faster, more efficient and more customer-centric, while at the same time going beyond automation and optimization and detect new business opportunities and models.

Prof. S. Krishnan, began his valedictory address with his experience in Marine related industries and also shared the effect of automation in marine industries. The award of best papers in each stream was presented by Dr. V. Sumitha, HoD (i/c)/ Biotechnology department, Dr. A. Bhaskaran, HoD/Applied physics and Dr. G. Devasagayam, HoD/Applied Chemistry.

Dr. J. Venkatesan HoD/AE delivered the vote of thanks. The entire valedictory function was compered by Dr. R. Kumutha, HoD/Civil Engineering department





SMETI 2020
BEST PAPER AWARD

Sl.NO	Paper ID	Title/Author
1	14677	A STUDY ON SOLAR CHIMNEY POWER PLANT WITH SEMI CONVERGENT COLLECTOR AND DIVERGENT CHIMNEY <i>Rajamurugu Natarajan, Venkatesan Jayaraman</i>
2	14689	A NOVEL CONCEPT DRIFT DETECTION FRAMEWORK FOR TIME-EVOLVING STREAM DATA <i>Muralikrishnan Ramane, Gnanasekar J M</i>
3	14745	DATA SECURITY IN AUTONOMOUS VEHICLE BY CLOUD COMPUTING <i>Tilak Ramesh Babu, Anobhama V, Anitha R, Venkatesan Jeyaraman</i>
4	14750	DESIGN AND ANALYSIS OF DIGITAL FIR FILTER USING RLNS FIXED-WIDTH MULTIPLIER <i>JENCY RUBIA J, Sathish Kumar G A</i>
5	14751	A COMPARATIVE STUDY ON MACHINE LEARNING ALGORITHMS FOR TRAFFIC FLOW FORECASTING <i>Rajalakshmi V, Ganesh Vaidyanathan S</i>
6	14761	PREDICTING THE ISO-ELECTRIC POINT OF AQUA-ANTIFREEZE FLUID DISPERSED WITH COMBUSTION DERIVED MAGNESIUM OXIDE NANOPARTICLES <i>Suseel Jai Krishnan, P K Nagarajan, Venkatesan Jeyaraman</i>
7	14779	A SURVEY ON AUTOMATED ANALYSIS OF MULTISPECTRAL HUMAN CHROMOSOME IMAGES <i>Menaka Dinesh, Ganesh Vaidyanathan S</i>
8	14786	TRANSGENDER FACE RECOGNITION USING A VARIANT OF CONVOLUTIONAL NEURAL NETWORK (CNN) <i>R. Bhuvaneswari, S. Ganesh Vaidyanathan</i>
9	14789	DESIGN OF AN AREA EFFICIENT AND LOW POWER COMPOSITE S-BOX USING REVERSIBLE LOGIC CRYPTOGRAPHIC DESIGN <i>Sarala B, Sathish Kumar G A</i>
10	14790	ENHANCED THERMOELECTRIC PROPERTIES OF MG3SB2 UNDER UNI-AXIAL STRAIN: A FIRST-PRINCIPLES METHOD <i>Anandavadivel Annamalai</i>
11	14811	COMPARISON OF LONG SHORT TERM MEMORY(LSTM) AND MULTI-INPUT LSTM MODELS FOR AGRICULTURAL ENVIRONMENT PREDICTION <i>Jayanthi Devaraj, Vaishali Murugavel</i>
12	14862	A HIGH PERFORMANCE HANDWRITTEN CHARACTER RECOGNITION SYSTEM USING ALEX-NET BASED ON CNN FOR TAMIL LANGUAGE <i>Babitha Lincy R, Gayathri R.</i>
13	14871	SMART HOME INTEGRATED SYSTEM <i>Rajaram V, Balasubramanian S R, Kumaratharan N</i>
14	14892	SPEED AND MOTION CONTROL OF SERVO MOTOR FOR STEERING INDUSTRY <i>Rajaram R, Arulmozhi Subramanian, KR Santha, Rakshick srinivas</i>
15	14929	SMART TRAFFIC MANAGEMENT SYSTEM BY VEHICLE DENSITY DISSOLVING METHOD <i>MAHESH G K, BALAMURUGAN N M, MALAISHREE G, MADHUMITHA B</i>

16	15190	EXPERIMENTAL STUDIES ON THE COMBUSTION DERIVED ZINC OXIDE NANOPARTICLES AS FUEL ADDITIVES TO EVALUATE THE EMISSION CHARACTERISTICS OF A DIESEL ENGINE <i>Dhanesh C, Venkatesan J, Suseel Jaikrishnan</i>
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