



Kriti



Volume: 13
Issue: 2; August 2021

NEWS LETTER

15th AUGUST
INDEPENDENCE DAY



AMRITA
VISHWA VIDYAPEETHAM
DEEMED TO BE UNIVERSITY

AMRITA SCHOOL OF ENGINEERING,
Bengaluru

School Highlights

Independence Day

The college celebrated the 75th Independence Day in the campus on 15th August 2021. The flag was hoisted by Dr. Sriram Devanathan, and the small gathering paid respect followed by the National Anthem. The cultural events were aired on Teams. The cultural program included various dance performances, and a speech on the importance of independence and inner freedom as well. Ms. Tanisha D. spoke on 'Contribution of technology in My Bharat's development'. Ms. Yoshita rendered a poem titled, 'Tribute to the warriors of our Nation'. Mr. Rohit staged a mono act that brought in the theme of unity among farmers to fight against the British rule. The Raaga and Nanthana clubs celebrated the day with powerful patriotic song and dance respectively. The Squad team had a dialogue on the importance of respecting the freedom gained and on the relevance of inner freedom.



School Highlights



School Highlights

Joy of Giving

Amrita School of Engineering, Bengaluru, celebrated 'The Joy of Giving'- a token of appreciation for those who primarily contribute towards the maintenance of the campus environment. On 26th August 2021, the staff, consisting of the gardeners, electricians, carpenters, estate and facility staff, the canteen and mess staff, the security team, and the bus drivers were felicitated for their contributions, especially towards NAAC accreditation. Dr. R.S.S. Rao, the Vice Principal welcomed the gathering, and the Director of the campus, Viswamitra Chaitanya explained to the crowd the importance of A++ accreditation, and how their contribution in keeping the infrastructure well maintained is acknowledged by the university. Swamiji also wholeheartedly thanked them. As a token of appreciation a steel set consisting of a plate, a tumbler and a katori were distributed to all the invited staff, followed by a sumptuous meal.



School Highlights



Department of CSE

Papers Published

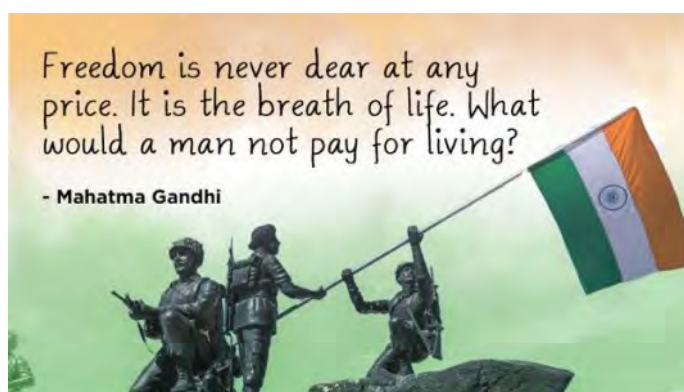
INTERNATIONAL JOURNAL			
NAME	TITLE	MONTH & YEAR	NAME OF THE JOURNAL
Author(s): Soumya Kuruvayil Suja P. P. S. Rama Sreekanth	"Emotion recognition from facial images with simultaneous occlusion, pose and illumination variations using meta-learning"	August 2021	Journal of King Saud University - Computer and Information Sciences. Production and hosting by Elsevier B.V. on behalf of King Saud University. https://doi.org/10.1016/j.jksuci.2021.06.012 Impact factor: 13.473
Author(s): Jithy Lijo Tripty Singh Venkatraman Bhat Moni Abraham Kuriakose	"Comparative Analysis of Volume Rendering Techniques on Craniofacial CT Images"	August 2021	Lecture Notes in Networks and Systems book series (LNNS, volume 190), 2021, pp. 945–957

Papers Presented

INTERNATIONAL CONFERENCES			
NAME	TITLE	DATE	NAME OF THE CONFERENCE
Presented By: S. Meghana Author(s): M. C. S. Sreejitha P. Sai Priyanka S. Meghana Nalini Sampath	"Statistical Test to Analyze Gene Micro Array"	20 th - 21 st August 2021	3 rd International Conference on Innovative Data Communication Technologies and Application- ICIDCA 2021

Faculty Achievements/Participation/Recognition

- Dr.Tripty Singh** reviewed a paper for International Journal of Biometrics published by Inderscience.



Department of ECE

Papers Published

INTERNATIONAL JOURNAL			
NAME	TITLE	MONTH & YEAR	NAME OF THE JOURNAL
Author(s): M. Vinodhini N. S. Murty T. K. Ramesh	"Crosstalk aware transient error correction coding technique for NoC link"	August 2021	Microelectronics Reliability Journal Elsevier publications Volume:124 (September 2021) Impact Factor: 1.589

Faculty Achievements/Participation/Recognition

- **Ms. Sunitha R.** received Publication Merit Award under Amrita Innovation & Research Awards 2021 (AIRA 2021) for publishing an article in an International Journal in 2020.

Departmental Activity

Exploring the computational mysteries of a forgotten sense

Ms. Sunitha R. delivered a talk titled, "Exploring the computational mysteries of a forgotten sense" as a part of ECE Department Research Talk, on 27th August 2021 at Amrita School of Engineering, Bengaluru. The abstract of the talk indicates that the brain, first and foremost, is an information processing machine. Like any other organ in the body, the brain too is a mass of cells. But unlike any other organ in the body, brain is a network of cells, a network that clearly distinguishes itself in its sheer size, complexity, and ability. The field of computational neuroscience started in 1952 with the development of Hodgkin and Huxley neuron, through nonlinear partial differential equations, the genesis of the action potential in the axon of the giant squid. These equations and the methods that arose from this combination of modelling and experiments have since formed the basis for every subsequent model for active cells. In this talk the computational mysteries of a forgotten sense would be explored.

New Appointment

Dr. Salija P. joined as an Assistant Professor in the Department of Electronics and Communication Engineering at Amrita School of Engineering, Bengaluru on 9th August 2021. She obtained her Ph.D. degree in Error control coding from Amrita Vishwa Vidyapeetham, Coimbatore. She received the M. Tech. degree from Karunya university, in 2013, and B.Tech. degree from Cochin University of Science and Technology, in 2011. Prior to joining Amrita, she has worked as an Assistant Professor at Government College of Engineering, Wayanad, and as a senior research fellow and junior research fellow in ISRO sponsored project at Amrita Vishwa Vidyapeetham, Coimbatore. Her areas of interest include channel coding for reliable and low latency communication, iterative decoder, and related areas. She has published papers in international journals and international conferences.



Department of EEE

Faculty Achievements/Participation/Recognition

Dr. Anand R.

- ⇒ Has delivered a talk on the topic "**The Immutable Force of Blockchain Technology - Entrepreneurship Perspective**" organized by QIS College of Engineering and Technology, Ongole, Andhra Pradesh on 12th July from 10.00 am to 11.30 am.
- ⇒ Has delivered a talk on the topic "**Blockchain Beyond the Hype: Real Use Cases**" organized by Hindustan College of Engineering and Technology, Coimbatore, Tamil Nadu on 24th August from 2.30 pm to 3.30 pm.

Dr. K. Deepa

- ⇒ Has delivered webinar on the topic "**Role of Electrical Engineers in Electrical Vehicle Era**" organized by IEEE PES Student Branch Chapter of College of Engineering, Attingal, Kerala on 15th August 2021 from 5 pm to 6.30 pm under the IEEE Student Activities Committee Virtual Speakers Bureau.
- ⇒ Was the session chair for IEEE 2021 Asian Conference on Innovation in Technology during 28th & 29th August 2021.

Departmental Activity

Towards Extreme Fast Charging of Electric Vehicles

IEEE PELS, IEEE IES Bengaluru Chapter, EEE Department, Amrita School of Engineering conducted a Webinar on topic "**TOWARDS EXTREME FAST CHARGING OF ELECTRIC VEHICLES**" on 11th August 2021 from 7 pm -8 pm.

The webinar commenced with the introduction of the speaker Vishnu Mahadev Iyer, Assistant Professor, Department of Electrical Engineering, Indian Institute of Science, Bengaluru.

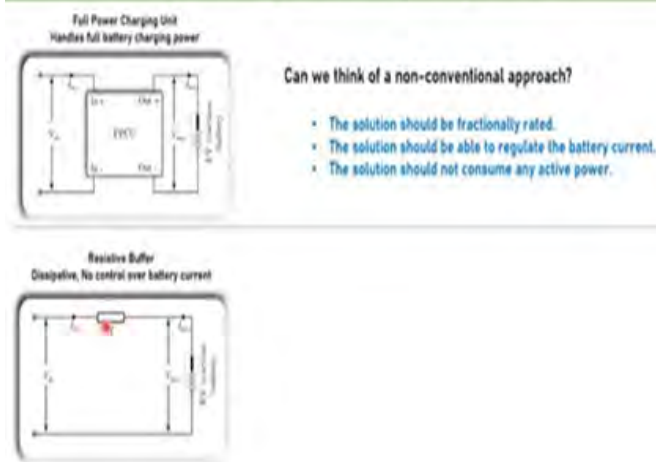
Speaker started the session with the introduction of charging in the Electric Vehicles and mainly focused on the shift towards the Extreme Fast Charging. Later he emphasized on the conventional and non-conventional approaches in the Partial Power Processing and then he focused about the Concept of Test-Bench Key Results, an approach Towards extreme fast charging station power delivery for Electric Vehicles with Partial Power processing. Active Stabilizers and many related things, the recent developments, aspects of Extreme fast charging in EV's were also shared and discussed.

The meeting concluded with a healthy interactive session. There were 53 participants who have turned up for the event of which there were 20 IEEE members.

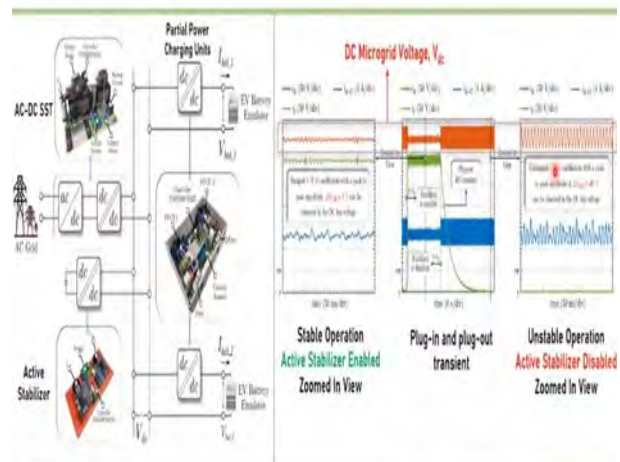


Department of EEE

Partial Power Processing - A Thought Experiment



Active Stabilizer - Key Results



Research and Innovation for Industrial Applications and Women Empowerment

IEEE PES, PELS, IEEE IES Bengaluru Chapter, IEEE PES AND IAS Jt. Student Branch Chapter and WIE of Amrita School of Engineering, Bengaluru hosted an expert event on "Research and Innovation for Industrial Applications and Women Empowerment" on 18th August 2021 from 7 pm to 8 pm.

The event commenced with the introduction of the speaker Dr. Celia Shahnaz, Professor, Department of EEE, BUET Dhaka & Chair, IEEE Signal Processing Society (SPS) Women in Signal Processing Committee & IEEE PES Women in Power R10 Representative.

The speaker started the session with her achievements and her dedicated work in women empowering with the help of modern technology and innovation. She also emphasized the need of research and innovation in uplifting the communities and tackling the daily hurdles with the innovative applications. Later, she discussed the role of technology in various sectors like agriculture, health and transportation. For explaining about the sectors, she took various examples that include Low-cost Smart Electric Wheel Chair with destination mapping and intelligent control features, Automated Heart Rate Monitoring and Injecting Device with Precise Vein Detection and many more. Her works and contributions to the field was inspiring and left many participants who have turned up for the event amused with the role of technology playing a key role in uplifting communities across the world.

The meeting ended with a healthy interactive session. There were 65 participants for the event of which 25 were IEEE members.

Department of EEE

AMRITA BANGALORE
AMRITA School of Engineering (ASE)
IEEE PES BANGALORE CHAPTER
IEEE PES BANGALORE CHAPTER
IEEE PES BANGALORE CHAPTER

Organizes
An Expert Event on

**Research and Innovation for
Industrial Applications and Women
Empowerment**

By
Dr. Celia Shahnaz
Professor, Department of EEE, BUET Dhaka
Chair, IEEE Signal Processing Society (SPS) Women in Signal
Processing Committee
&
IEEE PES Women in Power R10 Representative

 **18 August 2021**
7PM-8PM IST

Online platform: Microsoft Teams

Registration Link:
<https://forms.gle/WBOBaNTuTjzLDjTFZ>

For any queries contact
Dr.K.Deepa-99800 05071 Ashutosh-7901496535

 **Low-cost Smart Electric
Wheel Chair with
destination mapping and
intelligent control Features**

বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়
Bangladesh University of Engineering and Technology

Group Awards.....

IEEE EMBS Bangladesh Chapter received
2020 IEEE EMBS Regional Outstanding Chapter Award



**Image-based Bengali Sign
Language Alphabet
Recognition for Deaf and**



বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়
Bangladesh University of Engineering and Technology

**NON INVASIVE BILIRUBIN LEVEL
QUANTIFICATION & JAUNDICE DETECTION
BY SCLERA IMAGE PROCESSING**



Adjustable camera stand





Department of ME

Papers Published

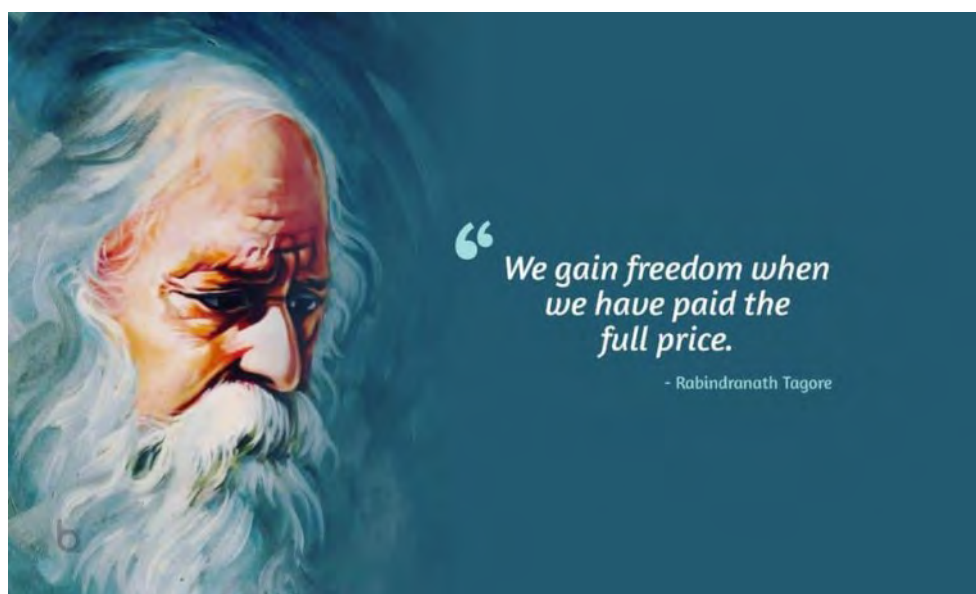
INTERNATIONAL JOURNALS			
NAME	TITLE	MONTH & YEAR	NAME OF THE JOURNAL
Author(s): R. Pramod S. Basavarajappa G. B. Veeresh Kumar Murthy Chavali	"Drilling induced delamination assessment of nanoparticles reinforced polymer matrix composites"	July 2021	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Sage Publications

Workshops/Seminars/Conferences /Webinars/FDPs Attended

NAME	TITLE	DATE	Platform / Venue
R. Pramod	5-day online FDP on "Inculcating Universal Human Values in Technical Education"	16 th – 20 th August 2021	AICTE Online

Faculty Achievements/Participation/Recognition

- Mr. R. Pramod** has undergone Innovation Ambassador training [Advanced Level] conducted by MoE's Innovation Cell & AICTE from 30th June - 30th July 2021 in online mode and has successfully completed the training and has been certified as Innovation Ambassadors.





Department of English

Papers Presented

INTERNATIONAL CONFERENCES			
NAME	TITLE	DATE	NAME OF THE CONFERENCE
Presented By: Deepthi Janardhan Author(s): Deepthi Janardhan	"Dialectical Variations: Confrontations of the Translator"	30 th - 31 st August 2021	2-Day International Interdisciplinary conference on "Narratives, Self and Identities: Traditions and Innovations" School of Arts and Humanities & Social Sciences, Reva University, Bengaluru in collaboration with iSPELL and Liver John Moores University, England

Department of Amrita Darshanam

Faculty Achievements/Participation/Recognition

Ms. Yogita Chhatre

- ⇒ Has delivered a lecture on the topic "Ayurveda: With or without Sanskrit" in the Sanskrit Webinar Series organized by Sree Raghavendra Ayurveda Medical College, Chitradurga, Karnataka on 2nd August 2021.
- ⇒ Presented her classical Sanskrit poems in the "All India Sanskrit Poets' Meet", held on 13th August 2021 which was organized by Delhi Sanskrit Academy on the occasion of Independence Day.





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