ENGMEDNEWS

Newsletter of Biomedical Engineering Society of India

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Dear Members,

Greetings!

Death is not the last step. It is the final awakening.

Thank you very much for supporting the BMESI, continuously.

With Regards

Dr. Shruti Jain
Editor-in-Chief

Dr. Sudip Paul
Editorial Board Member

Journal of Bioengineering &Life Sciences

AIM AND SCOPE OF THE JOURNAL

Journal of Bioengineering & Life Sciences (JBLS) is a multidisciplinary journal, publishes research papers focused on application of applied Engineering & Sciences. JBLS ensure researcher to share their findings with the scientific expert committee for quick critical review and acceptance.

The journal publishes research articles in the following areas:

1. Biomedical Instrumentation
2. Biomedical Materials
3. Biomechanics
4. Biophotonics
5. Biosensors
6. Bio-MEMS
7. Nano-Electronics
8. Clinical Engineering
9. Medical Implants
10. Medical Imaging
11. Prosthesis & Orthotics Devices
12. Synthetic Biology
13. Tissue Engineering
14. Computational Modeling
15. Molecular, Cellular, and Functional basis of therapy
16. Molecular Biology
17. Cell biology
18. Biochemistry
19. Biophysics
20. Environmental sciences
21. Molecular genetics
22. System biology
23. Endocrinology
24. Population Genetics
25. Biochemical analysis
26. Basic and applied Life sciences
27. Biodiversity
28. Biomedical Science
29. Developmental Biology
30. Evolutionary Biology
31. Parasitology
32. Structural Biology

Seminar on Optical Trapping and Nano Machines

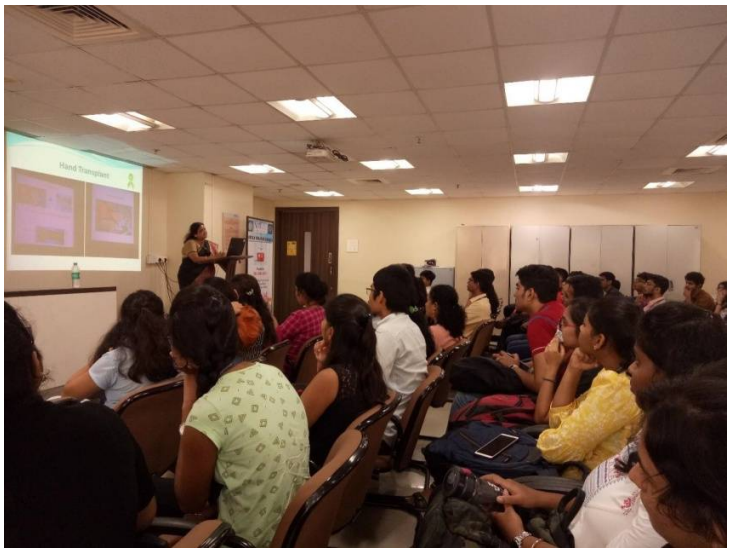
Name of the Institute	Vidyalankar Institute of Technology
Name of the Committee	Biomedical Engineering Society of India (BMESI)
Activity Title	Optical Trapping and nano Machines
Date **Time** **Venue**	09 September 2019 4.00 PM Seminar hall B105
Description	Gauri Patwardhan gave a short introduction of the

	speaker. *Dr. Roop Mallik* is an Indian Biophysicist from Tata Institute of Fundamental Research who has won Infosys Prize for best Innovation in 2018. He had visited VIT campus for a Seminar on "Optical Trapping of Nano-Machines" which is basically about bio nano- machines its range of dimensions, working in a medium and its movements. Dr. Mallik started the talk with the working of heart as a machine and its movements and then went on to nano- machines like cells bacteria and their range of movements. He was elaborating on the types of forces which can be used to stimulate such movements. Then he explained how light/photon can be used to stimulate the machines and further explained about the optical trapping using LASER and multiple lenses to focus them. The process was explained in detail how these machines can be aligned and trapped. Students were asking about the different applications where these machines and their trapping is used. He then also cleared the doubts that students had in their mind and also mentioned that biological sciences have a great scope for higher studies.
Further scope	Projects related to this study can be discussed with faculty and students through a visit of faculty to TIFR can be arranged

Seminar on Organ Donation

Name of the Institute	Vidyalankar Institute of Technology
Name of the Committee	Biomedical Engineering Society of India BMESI-VIT and BMSA-VIT
Activity Title	Organ Donation Seminar
Date **Time** **Venue**	14 September 2019 12:30 PM M413
Description	This seminar was addressed by Mrs.Meera Suresh, ZTCC (Transplant Co-ordinator).

	Aarti Ahire, the publicity head, gave a short introduction of the speaker Mrs.Meera Suresh.Mam started off with importance of organ donation and cleared the doubts which arise due to religious beliefs. "Death is not the last sleep. It is the final awakening"-Walter Scott, Scottish Novelist, quoting this she explained the two types of deaths- Natural and Brain dead. Mrs. Meera introduced Cadaveric Skin Harvesting and explained that skin should be harvested within 6hrs of death. She gave a detailed and well distinguished insight on the procedure for skin donation and skin processing in skin banks. She planted seeds of awareness about: 1. Green corridor – The importance of green corridor in saving a person's life was explained. 2. Body Donation – She explained how body donation is equally important like organ donation. 3. Major difference between Body Donation and Organ Donation. The successful hand transplant surgeries done by Dr. Subramani Iyer were displayed for the students. A data sheet of number of transplants done till 31st December 2017 was shown. Various pictorial examples where used by the speaker for the better understanding of students. Much more valuable knowledge was shared by her to the audience throughout the session. The students found the Seminar very interesting.



Seminar on Project Presentation

Name of the Institute	Vidyalankar Institute of Technology
Name of the Committee	Biomedical Engineering Society of India(BMESI)
Activity Title	Project Presentation
Date **Time** **Venue**	25 September 2019 4:45PM to 6:30 PM Seminar Hall B105
Description	This Workshop was addressed by *Dr. Gajanan Nagare* EX-HOD of Biomedical Dept, *Prof. Ashish Shekhar*, Professor of EXTC Dept, *Mr. Kunal Dua,* Alumni of VIT, & *Mr. Rishikesh Mudaliyar* , Alumni of VIT.

	This Workshop was conducted to enhance student knowledge about project building. Workshop started with *Dr. Gajanan Nagare*. He explained different types of project that can be make with procedure we need to follow. He also explained about Project management and Soft Skills that are required to make successful project. He gave us idea about different handled by Biomedical dept students until today. *Mr. Kunal Dua* shared his personal experiences about project building. He emphases about how technical skills are important than theoretical knowledge. He explained that research is base of a project. *Prof. Ashish Shekhar* explained about how to select project. His session was interactive and motivational. He gave us brief explanation about finding problem statement for project. He gave different project approach paths for FE, SE & TE students. *Mr. Rishikesh Mudaliyar* shared his experiences while working on projects. He explained stages of project in 3 simple steps. He explained about group importance in project building. Many insights were given by the speakers which made the session very interesting and engaging. The students found the Workshop very helpful for their Projects.

Protect from CORONA VIRUS

Six simple ways that can protect yourself, family and others from #**Corona virus**.

- Wash your hands frequently using alcohol-based hand sanitizer or soap and water.
- When coughing and sneezing, cover your mouth and nose with your flexed elbow or a tissue – then throw away the tissue immediately and wash your hands.
- Avoid close contact with anyone who has a fever and cough.
- Seek medical care early if you have a fever, cough and difficulty breathing, and tell your doctor about your travel history.
- If you visit a live market in an area with reported cases of corona virus, avoid direct unprotected contact with live animals and surfaces they've touched.
- Don't consume raw or under-cooked animal products. Handle raw meat, milk or animal organs with care to avoid cross-contamination with uncooked foods.

World Health Organization (WHO)

Call for Conference

MRCN- 2020

1ST INTERNATIONAL CONFERENCE ON MOBILE RADIO COMMUNICATIONS & 5G NETWORKS

MRCN- 2020, 26th- 28th March 2020

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.

UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY

KURUKSHETRA UNIVERSITY, KURUKSHETRA, HARYANA

('A+' Grade NAAC Accredited)

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- Mr. Vijay Kumar Garg
- Dr. Sanjeev Ahuja

CALL FOR PAPERS

This conference will provide a platform and aid to the researches involved in designing systems that will permit the societal acceptance of ambient intelligence. The overall goal of this conference is to present the latest snapshot of the ongoing research as well as to shed further light on future directions in this space. The aim of this conference is to serve for researchers, educators and developers working in the area of upcoming technologies in the field of Cellular systems, Small cells and Femtocell networks, Green wireless networks etc.

Authors are invited to submit papers presenting novel technical studies as well as position and vision papers comprising hypothetical/speculative scenarios.

The Conference will focus on :-

- **Cellular Systems,2G/2.5G/3G/4G/5G and beyond**
- **LTE,WiMAX,WMAN, and other Emerging Broadband Wireless Networks**
- **Small cell and Femtocell Networks**
- **Vehicular Radio Networks**
- **Cognitive Radio Networks**
- **Green Wireless Networks**
- **Standardization activities of Emerging Wireless Technology**
- **Artificial Intelligence**
- **RF Communication**
- **Optimization Techniques**
- **Software-Defined Wireless Networks**
- **Power Management and Energy Conservation Techniques**
- **Wireless Edge Computing, Fog Computing, and Cloud Computing**
- **Inter-Networking of Wireless Heterogeneous and Multi-tier Networks**
- **Machine-to-Machine Communications**
- **Pervasive and Wearable Computing and Networking**
- **Wireless Adhoc-Networks**
- **Signal Processing**

Paper Submission

Authors are invited to submit full paper in Springer format

Email : mrcn2020@gmail.com

All the accepted papers will be published in LNNS Springer, which is indexed with world's leading Abstract & Indexing (AI), ISI Proceedings, SCOPUS, Google Scholar.
Springer link: https://www.springer.com/series/15179

CALL FOR SPECIAL SESSIONS / Workshop

Proposals for organizing special sessions are also invited from academicians and industry experts from highly-reputed organizations. The proposals should clearly indicate:

a. Session Title **b.** Name(s), designation, and affiliation of session chair(s) and session-committee members **c.** Aims and Objective [200 words] **d.** Topics of Interest [120 words] **e.** Expected number of articles to receive **f.** List of name, affiliation, email of 50 target researchers who can submit articles to this session.

Special session proposals along with a short curriculum vitae of the session chair(s) can be mailed to mrcn2020@gmail.com on or before 25 January 2020. After review by an external expert panel, decision regarding the special session will be intimated within 14 days from submission of the proposal.

REGISTRATION FEE

CATEGORY	AMOUNT	CATEGORY	AMOUNT
Indian Authors (Academician)	₹ 2000	Student Author(Student/Research Scholar)	₹ 1500
Industry Authors	₹ 2500	Indian Participant/Attendee	₹ 500
Foreign Authors	$ 100	Foreign Participant/Attendee	$ 50

IMPORTANT DATES

- **Last Date of Paper Submission :** 15th February 2020
- **Paper Acceptance Notification :** 28th February 2020
- **Last Date for receiving CRP and Author Registration :** 15th March 2020
- **Date of Conference :** 26th- 28th March 2020

CONTACT

Dr. Nikhil Marriwala,Organizing Secretary : MRCN-2020
+91 9416668482 , +91 9729999805
mrcn2020@gmail.com

Call for papers

ComPE 2020

ComPE 2020 INTERNATIONAL CONFERENCE on COMPUTATIONAL PERFORMANCE EVALUATION

ComPE 2020

Biomedical Engineering Department,
North-Eastern Hill University (Central University)

WWW.COMPE2020.COM | JUL 02 -04, 2020 | SHILLONG

The Department of Biomedical Engineering, North-Eastern Hill University (Central University) and Blue Amber Foundation are jointly organizing the International Conference on Computational Performance Evaluation (ComPE-2020) during July 02 - 04, 2020. The conference is technically sponsored by IEEE Kolkata Section (Approval #49325) for deliberating with renowned experts in this field. This invitation is open for all academicians, research scholars, Post-Docs, PG and UG students working in the field of topics of interest related to Engineering, Biomedical Engineering and Medical Science related areas.

CALL FOR PAPERS

ComPE-2020 is an opportunity for researchers, academicians, practitioners and professionals located around the world who are involved in the field of data science, communication technologies, signal processing, augmented reality and virtual reality, electronic devices and circuits, power electronics, Industry 4.0 and interdisciplinary areas to submit their original research papers which have not been submitted elsewhere in other conference/journals. Best Papers under each track will be awarded.

PUBLICATIONS

All registered and presented papers in the conference will be forwarded for inclusion in IEEE Digital Xplore. Extended version of selected best papers will be invited to publish as book chapters in Springer/Elsevier book and reputed SCI/SCIE/ESCI/Scopus indexed journals.

PAPER SUBMISSION

Registration fee Authors may submit their manuscripts through the following link, https://easychair.org/conferences/?conf=compe2020

REGISTRATION

Payment can be done by Demand Draft (DD) / cheque in favor of "ComPE-2020" payable at Shillong (or) wired transfer (NEFT) or Gateway payment. More details are available in the Conference website.

Full Paper Submission:
February 28, 2020

Acceptance Intimation:
March 20, 2020

Submission of Camera Ready Paper:
April 5, 2020

Deadline for Registration:
April 25, 2020

Conference Date:
July 02 - 04, 2020

CONTACT

ComPE-2020
Department of Biomedical Engineering
North-Eastern Hill University, Shillong, India
Phone: +91-9485026088
Website: www.compe2020.com

PUBLISHER
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Call for papers

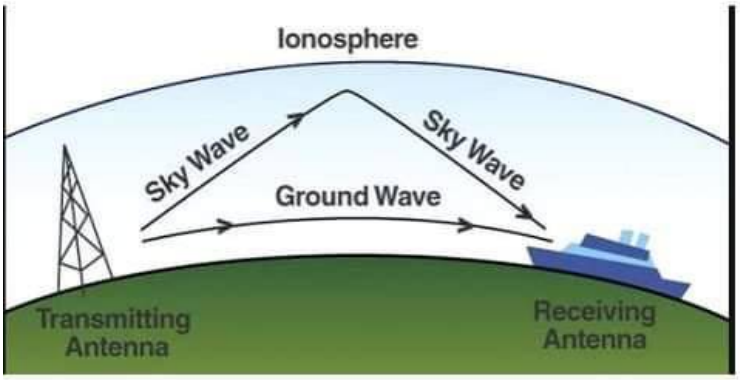
ICRTSEM-2020

Karpaga Vinayaga College of Engineering and Technology, Padalam is organizing 4th International Conference on Recent Trends in Science, Engineering and Management (ICRTSEM-2020) on 20th March, 2020 at Hotel Regenta Central RS, OMR, Chennai. Kindly encourage colleagues, scholars and students.

Dr.P.Kasinatha Pandian
Principal, KVCET

What is Propagation

PROPAGATION.



The method of spreading the electromagnetic wave through the vacuum of outer space. This depends on their own properties and the environment.

The waves travel in straight lines except where the earth and its atmosphere.

The frequencies below the HF travel around the curvature of the earth. They are called as ground waves.

Sometimes the frequencies in the range of the HF travel right around the globe. They reflected by the ionized layers of the atmosphere. They are called sky waves.

The space waves are the radio waves of very high frequency (i.e. between 30 MHz to 300 MHz or more). The space waves can travel through the atmosphere from the transmitter antenna to the receiver antenna either directly or after reflection from the ground in the earth's troposphere region.

Types of propagation. Ground wave, sky wave and the space wave propagation.

The Editorial Team of ENGMED NEWS wishes everyone a very

PROSPEROUS AND HAPPY

- *Tulip Festival, Kashmir*
- *Baisakhi, Punjab*
- *Bihu, Assam*
- *Shad Suk Mynsiem, Meghalaya*
- *Aoling Festival, Nagaland*
- *Chithirai Festival, Tamil Nadu*
- *Ooty and Coonoor Mariamman Temple Festival, Tamil Nadu*
- *Kadammanitta Padayani, Kerala*