



ENGMEDNEWS

Newsletter of Biomedical Engineering Society of India

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Message from Editor-in-Chief

Greetings

Dear Reader,

The ENGMEDNEWS the newsletter of BMESI in this July volume 3/18 covers the following columns: faculty focus, news, achievement and the details of a start-up. It is great pleasure to present faculty focus with the details of our own past Editor-in-chief of ENGMEDNEWS, Dr. Vinod Kumar presently Vice Chancellor of Jaypee University of Information Technology. Reported here the event conducted in the Mahatma Gandhi Mission's College of Engineering & Technology, Mumbai, along with other details.

Editorial team request all the associated people to communicate the latest updates that happens regularly at your institute in the of area Biomedical Engineering.

Editor-in -Chief

• *Dr. Niranjana Sampathila*

Quotes

"You have to dream before your dreams can come true"

"Don't read success stories, you'll only get messages. Read failure stories, you'll get some ideas to achieve success."

By Dr. APJ Abdul Kalam

NOTE: For publication, the interested personnel can send the relevant information on upcoming biomedical events, events held, scientific articles, award ceremonies, biomedical start-up/entrepreneurship. Please send the information supplemented with Photographs to the following mail address:

bmesi.engmednews@gmail.com and bmesiindia@gmail.com

Dr. Vinod Kumar

Vice Chancellor, Jaypee University of Information Technology
Former Editor-in Chief, ENGMEDNEWS



Dr. Vinod Kumar has joined as Vice-Chancellor of Jaypee University of Information Technology after superannuation from IIT Roorkee in July 2016 where he served for 41 years as Professor of Electrical Engineering Department. He received his Engineering degree from Punjab Engineering College, Chandigarh, and MTech. & Ph.D. from IIT Roorkee (erstwhile University of Roorkee). He has many academic awards, distinctions and scholarships to his credit including the Khosla Research Awards of University of Roorkee, 1st IETE-R S Khandpur Medical Instrumentation Gold Medal in recognition of life time achievements and outstanding contribution in the field of Biomedical Instrumentation 2006, Railways Board Award for the best paper by IE(I) 2006, KS Krishna Memorial Award of IETE, The Brij Mohanlal Award of IE (I), The Corps of Engineers Prize of IR(I), best paper certificates of Awards of IE (I) etc. He has been recognized as excellent performer for many years in IIT Roorkee.

He is the best teacher awardees of IIT Roorkee. Prof. Vinod Kumar has about 180 research papers to his credit in the area of Medical Instrumentation and Signal Processing. He has guided 28 PhDs, more than 150 M.Tech dissertations and more than 180 B.Tech. Projects in the area of medical instrumentation and digital signal & image processing.

He has held many positions in IIT Roorkee administration i.e., Deputy Director, Member Board of Governors, Dean Faculty Affairs, Heads of Electrical Engineering Department, Continuing Education Centre, Quality Improvement Program Centre, Information Super Highway Centre, Audio Visual Centre and Associate Dean Academic, Chairperson of many Committees and is the member of academic committees of many educational institutions and councils in India.

He has travelled widely in India as well as other countries of the world ie USA, UK, Germany, France, Canada, Singapore, Dubai, Thailand, Finland, Switzerland etc in connection with invited key note speaker, research collaborations & discussions etc.

He has taken more that 90 assignments as consultant in diverse fields which includes development of instruments, signal processing packages, residual life assessment of power plants and e-governance.

He has 43 years of rich experience of teaching & research and technical education management. He is a life fellow of IETE and IE (I), member IEI UK and is a senior member of IEEE USA. His areas of interest are Medical Instrumentation, Digital Signal and Image Processing, Telemedicine and e-Governance.

Two Days National Workshop on “Analysis of Biological Data using R- Studio” on 8th & 15th April 2018, Mahatma Gandhi Mission's College of Engineering & Technology, Mumbai



The two day workshop on “Analysis of Biological Data using R- Studio” was organized by the Department of Biomedical Engineering and Biotechnology, Mahatma Gandhi Mission's College of Engineering & Technology, in association with Biomedical Engineering Society of India (BMESI)

The workshop has provided hands on training in understanding the concepts in data science and statistical analysis using R programming which is one of the most widely used open source package in the field of Data Science across the world. The workshop was formally inaugurated by Dr. K. G. Narayankhedkar, Hon'ble Director General, MGM CET, Kamothe, Navi Mumbai. The inaugural function was presided by Dr. S. K. Narayankhedkar,



Principal, MGM CET, Kamothe, Navi Mumbai. The Resource Person for the workshop was Dr. Amiya Bhowmick (Institute of Chemical Technology, Mumbai, India), and Ms Jyoti V Jethe, research scholar from MGM CET, assisted the resource person in hands-on sessions.

The training module had following major areas: Introduction to R and R-Studio, Handling data in R, Model building in R – I (Simple Linear Regression) ,Model building in R – II (Multiple Linear Regression), Introduction to basic R programming, Some Re-sampling methods in Biology (Model selection), and Discussion of some Case studies from Biology. The workshop covered various topics and provided hands-on practice on the topic mentioned.

Achivement:

Dr. G Muralidhar Bairy

Prof. and Head Department of Biomedical Engineering
Manipal Institute of Technology
Manipal Academy of Higher Education



Dr. G Muralidhar Bairy, Faculty of Biomedical Engineering, M.I.T has successfully defended his Ph.D. thesis in May 2018 and has been awarded Doctor of Philosophy by Manipal Academy of Higher Education. His research title “Application of theory of nonlinear dynamics to study various mental states using EEG signals”, is an application of signal processing in solving the problems in Neurology (using EEG signals). He is presently heading the Department of Biomedical Engineering, M.I.T. He carried out his research under the supervision of Dr. Rajendra Acharya U, Senior Visiting Professor, Ngee Ann Polytechnic, Singapore, Adjunct Faculty SIM University, Singapore and Adjunct Faculty, Biomedical Engineering, MIT, Manipal, and Dr. U C Niranjana, Director, Research and Training, MDN Labs, Manipal and Adjunct Faculty, Department of Electronics and Communication, MIT, Manipal. His research interests include: Biomedical Signal processing in the area of Automatic Classification of normal, epileptic and preictal EEG signals, Automated classification of depression EEG signals and Identification of normal and alcoholic EEG signals.

INNVOLUTION HEALTHCARE PVT LTD



Innovation Healthcare Pvt Ltd was founded in 2010 by a group of Healthcare Management Professionals with combined experience of over 4 decades in Cardiovascular Industry. Gaurav Agarwal, one of the founders of the company and an MIT alumnus served various Top Medical Device MNC's in Leadership roles such as Marketing Manager Asia Pacific at Abbott Vascular and Country Manager at Meril Lifesciences Pvt Ltd.

The Company was formed with a Vision to be India's only Medical Device Sales & Marketing Company led by Professionals with Pan India Presence.

Since 2014, Innovation is India's largest Non Manufacturing company by revenue in Interventional Cardiology Devices.

In 2017, Innovation was awarded as the " Ten Best 10 Med tech Startups in India".

In 2015, Innovation signed a JV with manufacture Catheterisation Labs in India thereby becoming only the 7th Company Worldwide to manufacture Cath Labs. After two years of extensive R&D at the Bangalore facility, Innovation has launched its first cath lab in Jan'18 and has already received the most coveted " Red Dot" award for " Design Excellence" in Germany alongside companies like Google, Apple, Porsche, Tag Huer and Sony. The Cath Lab titled " Pinnacle" also won the award for " Best Medical Medical Equipment Design in India for 2017"

In 2016, Innovation won an exclusive contract for Manufacturing and marketing of India's first indigenous Dental implant by CSIR, Ministry of Science. This was a rare distinction as this implant is developed jointly by CSIR and IIT, Delhi in association with Maulana Azad Institute.

Innovation as a group is poised to be a 400 Crore Turnover group by 2022.

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