

PROCEEDINGS OF 2020 IEEE SIXTH INTERNATIONAL CONFERENCE ON BIOSIGNALS, IMAGES AND INSTRUMENTATION (ICBSII 2020)

Biomedical Engineering is a field of study that integrates two dynamic professions, Medicine and Engineering. It has recently established itself as an independent field with the objective of assisting medicine towards the betterment of society, through research.

Being an interdisciplinary science, it has associations with various other subjects such as Electrical Engineering, Mechanical Engineering, Chemical Engineering and Biotechnology. The spectrum of Bio-medical research aims to unite these disciplines in synergy, leading to new possibilities thus enabling the development of technology that could save lives.

The Sixth International Conference on Bio Signals, Images and Instrumentation (ICBSII-2020) was conceived with the thought of bringing together scientists, engineers and researchers from various domains all over the world. It has been a platform where some of the greatest minds of the country and abroad could interact, exchange ideas and work together towards a common goal.

Research papers were received from diverse areas such as Physiological Modeling, Medical Imaging, Medical Robotics, Biomechanics, Biomedical Instrumentation and Nano-materials amounting to a total of 103 papers. After a rigorous review process by an expert review committee, 24 papers that displayed quality in idea and work were selected for final presentation at the conference.

This conference is the fruit of a vision of the Management, faculty and students of the Department of Biomedical Engineering, SSN College of Engineering in association with the Centre for Healthcare Technologies (CHT), a multi-disciplinary R&D center, which works unanimously towards materializing it and were instrumental in its success.

The Department of Biomedical Engineering, since its inception in 2005, has been a pioneer in the field of biomedical technology, instrumentation, and administration. The department has excellent infrastructure, experienced faculty members and motivated students. Department also has several foreign collaborations which includes Birmingham University, UK, Drexel University, Philadelphia, USA, Neolight LLC, USA, Wildbox Technologies Pvt Ltd., Singapore and several industries such as L&T Medical System, Texas Instruments, National Instruments, Chettinad Hospitals and Sri Ramachandra Medical College. To add feather to the crown, the department has conducted three International conferences (ICBSII) in 2013, 2015, 2017, 2018, 2019 and two national conferences (NCABES) in 2014, 2016.

