



A Brief Report

On

Two Day International Conference on

"BIOMEDICAL SMART STRUCTURES AND SYSTEMS"



07th to 08th May 2021

Sponsored by

IEEE Photonics, Robotics & Automation, Engineering in Medicine, Computer Society

Organized by

SAVEETHA ENGINEERING COLLEGE

CHENNAI



Scope of Conference:

The International Conference on Bio Medical Smart Structures and Systems (BMSSS 2021) aims to bring together leading academicians, scientists, researchers and research scholars to exchange and share their innovative ideas, experience and research results about all aspects of Engineering and Technology. This Symposium is to identify and provide feasible solutions to meet ever growing challenges in the field of Bio Photonics, BioMEMS, Nano systems, Artificial Intelligence, System on chip (SOC), Network on chip (NOC), Lab on Chip(LOC), Soft computing, Grid system, Sensor Network, Image & Signal processing etc.,

The Symposium is one of the premier International meet in the field of Engineering & Technology and aims to provide a forum for electrical and electronics engineers and scientists in universities and research centers, utilities and industry to present their work and share information in the area of Biomedical smart structures and systems. BMSSS 2021 will comprise plenary talks and forum discussions, parallel sessions together with poster presentations taking place over 2 days.

Participants:

The programme is open for UG /PG students, research scholars, faculty members and industrialists with any engineering discipline.

Abstract Submission:

Abstract or full paper to be sent through email to organizerbmsss@gmail.com

Registration Fee Details:

- Indian students Rs 200/ 250
- Foreign students \$15/20

Registration Link:

https://forms.gle/4wjsCDDtovtkvjxs8

WhatsApp Group Link:

https://chat.whatsapp.com/KMu6wla86VcGbJ9xSHlEcS

Google Meet Link:

https://meet.google.com/nqh-qxny-pfd





Brochure:







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- Dr. P. Vanajaranjan, Anna University,Chennai. Dr. Nithiyavathy, IEEE WIE Chair, Madras Section,Chennai.

- Dr. P. Kumarasamy, Madras Veterinary College, Chennai. Dr. S. Umesha, University of Mysore, Mysore, Karnataka. Dr. Gundala Harold Philip, Sri Krishnadevaraya University,Anantapur, AP Dr. J. Narayanan, SankarNethralaya, Chennai, India.

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MAILING ADDRESS

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Session Chairs:







Organizing Committee:

Chief Patron	• Dr. N.M. Veeraiyan, Founder, President & Chancellor, SIMATS		
Patrons	 Dr. V. Saveetha Rajesh, Director, SMCH Dr. S. Rajesh, Director, SEC 		
Co-Patrons	 Dr. R. Ramesh, Principal, SEC Dr. R. Senthil Kumar, Vice Principal, SEC 		
Conveners	 Dr. Srigitha S Nath, Professor, Asso. Dean (ECE, MED & BME) Dr. M. Moorthi, Professor & Head (MED), IEEE SB Advisor 		
Organizing Secretary	 Dr. S. Praveen Kumar, Professor (ECE), IEEE SB Counselor 		
Program Chair	 Dr. D. Kanchana, Assistant Professor, MED Dr. Kalaivani, Assistant Professor, ECE Dr. Dhanush, Assistant Professor, BME 		
IEEE Coordinators	 Mr. T. Aravind, Assistant Professor, ECE Mrs. K. Sakthi, Assistant Professor, ECE 		
Organizing Coordinators	 Dr. S. Manju, Assistant Professor, MED Dr. Samuthirapandi, Assistant Professor, ECE Mr. K. Shankar, Assistant Professor, BME 		
Co-Coordinators	 Dr. Sinthiya P, Associate Professor, BME Dr. Nagaraj, Associate Professor, ECE Mr. U. Madhanlal, Assistant Professor, MED 		





Participants:

Nearly 150 participants have registered from various academic institutions across the country such as SRM Institute of Science and Technology, Vels University, Jerusalem college of Engineering, Jeppiar Institute of Technology, Dhanalakshmi Srinivasan Engineering College, Vemu Institute of Technology, Velammal Institute of Technology, Avinashilingam Institute of Home Science and Higher Education for Women, Karpaga Vinayaga College of Engineering and Technology, SRM Easwari Engineering College, Vels Institute of Science, Technology and Advanced Studies, SNS College of technology, Easwari Engineering College and Asia Pacific University, Malaysia. Around 76 papers from various academic institutions have been shortlisted for the oral presentation in the conference.

PAPER PRESENTATION

TRACK 1: BIOMEDICAL SYSTEM

Bio Smart Systems, Fuzzy Logic / Neural networks, Diagnostic and Therapeutic Instrumentation, Biometric and Biomaterials, Medical Informatics, Telehealth and Telemedicine.

TRACK 2: HEALTH CARE TECHNOLOGIES

Nano/Micro Bio Engineering, Tissue/Cellular Engineering, Biomaterials and Artificial Organs Computational Systems, Modeling and Simulation in Medicine, Cardiovascular and Respiratory system Engineering, Neural and Rehabilitation Engineering, Biomedical sensors and Wearable Systems, Biomechanics and control system.

TRACK 3: BIOMEDICAL IMAGING AND SIGNAL/IMAGE PROCESSING

3D and Surface Reconstruction, Automatic Image and video Annotation, Medical Image retrieval and Cryptography, Watermarking, Medical image filtering and Enhancement, medical image Segmentation and recognition, Medical Image compression and coding, Medical image feature detection and classification, Super resolution Imaging.

TRACK 4: ARTIFICIAL INTELLIGENCE MODELS & APPLICATIONS

Expert Systems/Fuzzy Systems, Artificial Neural Networks/Genetic Algorithms, Machine Learning, and Deep Learning Approaches, Natural Language Processing, Semantic Web Intelligence & Models.

TRACK 5: COMPUTER VISION

Biologically Inspired Vision, Gesture and Activity Recognition, Model based Vision, Motion Tracking and Analysis, Motion flow and Visualization, Object detection and Recognition



TRACK 6: BIOMEDICAL APPLICATIONS

Augmented and Mixed Reality, Biometrics, Facial Recognition, Gait Analysis, Fall detection and prevention, Mental health and Cognitive Stimulation, Multimedia Databases, Occupational Therapy, Telemedicine, 3D Printing in Medical.

Inaugural Function Agenda:

Arfiliated to Anna University Approved by AlCTE
DEPARTMENT OF ECE, MEDICAL ELECTRONICS & BME
Organizes two day International Conference On
Biomedical Smart Structures and Systems: ICBMSSS – 2021
Sponsored by IEEE Photonics, Robotics & Automation, Engineering in Medicine, Computer society AGENDA
Date: 07.05.2021-Inaugural Function
10:00 am - Invocation
10:03 am - Welcome Address
Dr. Srigitha.S.Nath,Prof & Asso.Dean/ ECE/MED&BME
10:08 am - Lighting Kuthuvilakku
10:10 am - Presidential Address
Dr. R Ramesh, Principal, SEC
10:15 am - BMSSS 2021 Report
Dr. M.Moorthi, Prof&HOD/MED, SEC
10:20 am - Felicitation of Guest
10:22 am - Introduction of Chief Guest
Dr. Kanchana, AP/Medical Electronics
10:25 am -Inaugural Address
Dr. G. Giridhar
Director, Ministry of New and Renewable Energy (MNRE),
Government of India, New Delhi &
Solar Radiation Resource Assessment (SRRA),
National Institute of Wind Energy(NIWE), Chennai
10:30 am -Introduction of Chief Guest
Dr. Manju, AP(SG)/Medical Electronics
10:33 am -Keynote Address
Dr. Celia Shahnaz,
Professor, Department of EEE, Bangladesh University of Engineering
& Technology, Dhaka& Chair, IEEE Bangladesh Section,
Talk-Impact of Deep Learning in Healthcare Sector
10:45 am -Introduction of Chief Guest
Dr. Kanchana, AP/Medical Electronics
10:48 am -Keynote Address
Dr. Somashekhar S. Hiremath
Department of Mechanical Engineering,
Indian institute of Technology Madras
Talk-Applications of Robotics in Health care System
11:00 am – Souvenir Release





Inaugural Function Invitation:



Day 1 - 07/05/2021 (Friday) - Inaugural Function:

The Department of Medical Electronics, Electronics and Communication Engineering and Biomedical Engineering from Saveetha Engineering College, Chennai have successfully organized two day International Conference on "Biomedical Smart Structures and Systems", during 7th and 8th May 2021. The Inaugural function for BMSSS Conference began with a formal welcome by **Dr. D. Kanchana, Assistant Professor** in the Department of Medical electronics. The function was inaugurated with an Invocation song of Tamil Thaai Valzhthu, followed by Digital lighting ceremony of Kuthuvilakku. **Dr. S. Manju, Assistant Professor** in the Department of Medical electronics, coordinated the Inaugural function.



The Welcome address was delivered by **Dr. Srigitha S Nath**, Professor and Associate Dean, Saveetha Engineering College. She extended a warm welcome to the chief guests of the Inaugural function, **Dr. G. Giridhar**, **Dr. Celia Shahnaz**, and **Dr. Somashekhar S. Hiremath**. She also thanked Dr. Rajesh, Director, Saveetha Engineering College for his constant support and encouragement in organizing such events. She wished the event a grant success and thanked the participants for their joining the programme.

Dr. Ramesh, Principal, Saveetha Engineering College, has delivered the Presidential address. He focused upon the importance of such conference for students and faculty in the present days. He also emphasized the need to deal with the rapid changes and shifting paradigms in the education field. He explained about how biomedical smart systems could aid in better clinical diagnosis and early treatment. He also wished the organizers for taking up the responsibility in organizing such event and insisted that the event should be made as interactive as possible.

The BMSSS Conference Report was then presented by **Dr. Moorthi M, Professor and HoD**, Department of Medical Electronics, Saveetha Engineering College. He gave a short glimpse of the event including details about the speakers, participants and session chairs for this conference. He then thanked the management and IEEE for their support in organizing this event. He extended his warm welcome to the participants who have joined this programme from all over the country.

The Inaugural address was delivered by **Dr. G. Giridhar, Director, Ministry of New and Renewable Energy (MNRE), Government of India, New Delhi & Solar Radiation Resource Assessment (SRRA), National Institute of Wind Energy (NIWE), Chennai. He highlighted the significance of such conference to enhance the presentation skills of the young engineering professionals. He wished the organizing team a grand success and congratulated the participants for being shortlisted for oral presentation in the conference. The chief guest was then felicitated with a virtual memento and bouquet as a token of appreciation.**

The Presidential address was delivered by the chief guest, **Dr. Celia Shahnaz, Professor, Department of EEE, BUET, Dhaka & Chair, IEEE Bangladesh Section.** She talked about the challenges and requirements of the medical community in diagnosing diseases. She also highlighted the role of engineers in aiding clinical diagnosis using image processing algorithms and green computing techniques. She then wished the organizers and participants for successful completion of this event. The chief guest was then felicitated with a virtual memento and bouquet as a token of appreciation.

The Keynote address was delivered by the chief guest, Dr. Somashekhar S. Hiremath, Department of Mechanical Engineering, Indian Institute of Technology Madras,



Chennai. He delivered an exceptional talk on the recent advancements in the medical device design industry. He also showed various device prototypes development in various IITs across the country. He encouraged the student community to design their own medical device prototypes for the various problems faced in the society. The chief guest was then felicitated with a virtual memento and bouquet as a token of appreciation. The Inaugural function ended with the release of the BMSSS 2021 Conference proceedings as souvenir.

Souvenir Release:





Screenshots from the Inaugural function are attached below:











Day 1 - 07/05/2021 (Friday) - Session I:

Meet Link: https://meet.google.com/dqj-kwfg-vwb

The first session of day 1 had around 12 technical paper presentations out of which one paper was selected as best paper. The session chair was **Dr. Vijayalakshmi, Professor/ ECE, Vels University, Chennai.** She has evaluated the presentation based on novelty, technical relevance and the presentation skills of the participants. Out of the papers presented in Track 1, the paper titled "Soil Moisture Monitoring System using Arduino Uno" was awarded the best paper award.



Screenshot from Track I presentation is attached below:





Day 1 - 07/05/2021 (Friday) - Session II:

Meet Link: https://meet.google.com/asu-unua-hpz

The second session of day 2 had around 15 technical paper presentations out of which one paper was selected as best paper. The session chair was Dr. M. Sujatha, Professor, ECE, KL University, Vijayawada, Andhra Pradesh. She has evaluated the presentation based on novelty, technical relevance and the presentation skills of the participants. Out of the papers presented in Track 2, the paper titled "Structural and Microfluidic Analysis of Microneedle Array for Delivery of Insulin" was awarded the best paper award.



Screenshot from Track II presentation is attached below:





Day 1 - 07/05/2021 (Friday) - Session III:

Meet Link: https://meet.google.com/khx-psee-uxu

The third session of day 1 had around 15 technical paper presentations out of which one paper was selected as best paper. The session chair was **Dr. G. Kavya, Professor and Head, Department of ECE, S.A. Engineering College, Chennai**. She has evaluated the presentation based on novelty, technical relevance and the presentation skills of the participants. Out of the papers presented in Track 3, the paper titled "Touchless Doorbell for COVID-19 using Arduino" was awarded the best paper award.

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С	ERTIFICA1 BEST PAPER AWARD	
	This certificate is awarded to	
G.S. Nanditha, Keerthana	a. R, Nandhini. R, Raghul. SK and of	d Dr. J. Sivakamasundari
Jerus	alem College of Engineering, Tamil	Nadu
	in recognition of best paper titled	
То	uchless Doorbell for COVID-19 using Ardui	ino
	Conference on Biomedical Smart Structur of ECE, BME and Medical Electronics, held V	-
H-rother	choma	Com
Dr. M. MOORTHI Convenor	Dr. SRIGITHA. S. NATH Associate Dean/ECE,MED & BME	Dr. R. RAMESH Principal

Screenshot from Track III presentation is attached below:





Day 2 - 08/05/2021 (Saturday) - Session IV:

Meet Link: https://meet.google.com/dqj-kwfg-vwb

The fourth session on day 2 had around 15 technical paper presentations out of which one paper was selected as best paper. The session chair was Dr. T. Manikandan, Prof & Academic Head, ECE, Rajalakshmi Engineering College, Chennai. He has evaluated the presentation based on novelty, technical relevance and the presentation skills of the participants. Out of the papers presented in Track 4, the paper titled "Automatic Detection and Staging of Diabetic Retinopathy using Deep Learning Techniques" was awarded the best paper award.



Screenshot from Track IV presentation is attached below:





Day 2 - 08/05/2021 (Saturday) - Session V:

Meet Link: https://meet.google.com/asu-unua-hpz

The fifth session on day 2 had around 15 technical paper presentations out of which one paper was selected as best paper. The session chair was **Dr. P .Kalpana Devi**, **Asso.Professor/ECE**, **VelTech University**, Chennai. She has evaluated the presentation based on novelty, technical relevance and the presentation skills of the participants. Out of the papers presented in Track 5, the paper titled "Women Security System based on Voice Recognition Alert using IoT" was awarded the best paper award.



Screenshot from Track V presentation is attached below:





Day 2 - 08/05/2021 (Saturday) - Session VI:

Meet Link: https://meet.google.com/khx-psee-uxu

The sixth session on day 2 had around 15 technical paper presentations out of which one paper was selected as best paper. The session chair was **Dr. S. J. Kumaresan, Asso.Professor/ECE, R.M.K Engineering College,** Chennai. He has evaluated the presentation based on novelty, technical relevance and the presentation skills of the participants. Out of the papers presented in Track 6, the paper titled "Identification and Classification of Malignant Skin Lesions of The Anterior Torso using CNN" was awarded the best paper award.

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	This certificate is awarded to	
Souvik Kumar Purkaya	astha, Hafsah M Kureshi, Aakash	C and Dr. A K Jayanthy
SRM Institute of	of Science and Technology, Kattankula	athur, Tamil Nadu
	in recognition of best paper titled	
Identification and Class	ification of Malignant Skin Lesions of The A	nterior Torso using CNN
	al Conference on Biomedical Smart Structur at of ECE, BME and Medical Electronics, held Vi	
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Dr. M. MOORTHI	Dr. SRIGITHA. S. NATH Associate Dean/ECE.MED & BME	Dr. R. RAMESH

Screenshot from Track VI presentation is attached below:







Day 2 - 08/05/2021 (Saturday) - Valedictory Function:

Valedictory Function Agenda:



DEPARTMENT OF ECE, MEDICAL ELECTRONICS & BME

Organizes two day International Conference On Biomedical Smart Structures and Systems: ICBMSSS – 2021

Sponsored by IEEE Photonics, Robotics & Automation, Engineering in Medicine, Computer society

AGENDA

Date: 08.05.2021 - Valedictory Function

02:00 pm -BMSSS 2021 Report

Dr. M.Moorthi, HOD/MED

- 02:05 pm- Felicitation of Guest
- 02:07 pm Introduction of Chief Guest

Dr. Kanchana, AP/Medical Electronics

02:10 pm -Valedictory Address

Dr.Arunachala Perumal C

Professor/ECE,SA Engineering College

Chair, IEEE Photonics Society, Madras Section

- 02:15 pm -Best Paper Presentation Award
- 02:18 pm -Distribution of Certificates
- 02:20 pm- Group Photo session
- 02:22 pm -Vote of Thanks

Dr. Manju, AP(SG)/Medical Electronics

02:30 pm - National Anthem





Valedictory Function Invitation:



The Valedictory function was conducted in the presence of Dr. Arunachala Perumal C, Chair, IEEE Photonics Society, Madras Section, Chennai. In his valedictory address, Dr. Arunachala Perumal started with congratulating coordinators and the organizing committee for the successful conduct of this Virtual Conference. He emphasized the need of such programs as they provide a unique opportunity to explore the boundaries of what is currently known in various domains of Engineering and Technology, through a range of research experiences. He also mentioned that such programs provide a common platform to discuss and learn new methodology to upgrade ourselves.

After the valedictory address, **Dr. Moorthi, Professor and Head of the department of Medical electronics, Saveetha Engineering College**, presented the BMSSS 2021 Conference report which gave a glimpse of the two day event. He also acknowledged the support of



academicians and technical experts from various renowned organizations and Universities as speakers for this programme. He thanked the speakers and participants for their active involvement and participation throughout the programme. He then felicitated the chief guest with a virtual memento and bouquet as a token of appreciation.

The function ended with a vote of thanks presented by Program Chair, **Dr. Kanchana** on behalf of the Department of Medical electronics, ECE and BME. She thanked Dr. Rajesh, Hon. Director of Saveetha Engineering College, for giving an opportunity to organize this virtual conference on "Biomedical Smart Structures and Systems", and Dr. Ramesh, Principal of Saveetha Engineering College, for his constant support and motivation.

She also thanked Dr. Senthil Kumar, Vice Principal of Saveetha Engineering College, for his valuable guidance and suggestions, Dr. Srigitha S Nath, Associate Dean, Dr. Praveen Kumar, Expert Member, HoDs, All teaching and Non-Teaching Staff of Saveetha Engineering College for their kind cooperation in making this event a grand success. On behalf of the organizing committee, she extended a special thanks to IEEE for granting the permission for organising this event.

Following the vote of thanks, there was a group photo session. The valedictory function concluded with singing of the National Anthem. The screenshots from Day 6 Valedictory Function are attached below:



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Outcomes:

At the end of this conference, the participants

- 1. Gained experience on paper writing and presentation skills
- 2. Understood the wide scope for research in health care sector in terms of medical imaging software and hardware.

