

CONFERENCE ON



AMPHE
2020

Advances in Medical Physics and Healthcare Engineering

Advances in Medical Physics & Healthcare Engineering (AMPHE-2020)

8th - 9th April, 2020 Organised by: **Adamas University, Kolkata**

ABOUT THE CONFERENCE:

AMPHE 2020 is a platform for global professional development in terms of scientific research for the healthcare providing community. The theme of the conference being interdisciplinary in nature, will interest students, researchers and faculty members from biomedical engineering, biotechnology, medical physics, life sciences, material science, and also from computer science, electrical, electronics and mechanical engineering backgrounds. The conference will have special and regular technical sessions to discuss emerging trends of applications in healthcare technology. The conference will be held in **TECHNICAL CO-SPONSORSHIP** with **IEEE - Kolkata Section**.

CHIEF GUEST:

Padmasri Prof. Ajoy Kumar Ray, Former Director IEST, Shibpur India.

SPEAKERS FROM ACADEMIA:

Prof. Arup Kumar Raychaudhuri, Distinguished Professor Emeritus and J. C. Bose Fellow (SERB), India

Prof. Suman Kapur, Sr. Professor & Dean, BITS Pilani- Hyderabad, India

Prof. Dinesh Bhatia, Boyscast Fellow, Associate Professor, Dept. of Biomedical Engineering, North-Eastern Hill University, India

Dr. Debnarayan Dutta, M.D. Head Radiation Oncology, Amrita Institute of Medical Science, Kochi - India

IEEE EMBS Kharagpur Chapter nominated speaker

Prof. Jyotsna Kumar Mandal, Sr. Prof., Ex Dean & Director, Kalyani University

Prof. Santi Prasad Maity, Sr. Prof., IEST, Shibpur, India

Prof. Sudip Paul, Assistant Prof., North-Eastern Hill University, India

Prof. Madhurima Chattopadhyay, Professor and Head, Heritage Institute of Technology, India

SPEAKERS FROM INDUSTRY:

Mr. Shajith Damodaran, Scientist & Sr. Biomedical Engineer, Govt. of Qatar.

Mr. Bodhisattva Sensarma, Dy. Director, Siemens Healthcare - India

Dr. Anwesha Khasnobish, Scientist (R&D) - TCS Innovation Lab Kolkata

ORGANISING COMMITTEE:

Patrons:

Prof. Samit Ray, Chancellor, Adamas University

Prof. Madhusudan Chakraborty, Vice-Chancellor, Adamas University

General Chair:

Prof. Manjunatha Mahadevappa, School of Medical Science & Technology, IIT Kharagpur

Conference Chairs:

Prof. Bimal Kumar Sarkar, Dean, School of Science, Adamas University

Prof. Amitava Mukherjee, Assoc. Dean, School of Engineering and Technology, Adamas University

Technical Chairs:

Prof. Siddhartha Bhattacharyya, Christ University, Bangalore, India

Dr. Moumita Mukherjee, Assoc. Dean, School of Science, Adamas University,

Organising Chairs:

Dr. Moumita Dey, HOD, Dept. of Physics, Adamas University

Dr. Dipak Kumar Ghosh, HOD, Dept. of ECE, Adamas University

Convener:

Dr. Moumita Mukherjee, Assoc. Dean, School of Science, Adamas University

Organising Secretary:

Dr. Satarupa Biswas, Asst. Prof., School of Science, Adamas University

Joint Secretary:

Ms. Gulfishan Mobin, Asst. Prof., School of Engineering & Technology

Adamas University

IMPORTANT DATES:

- Conference Dates: April 08-09, 2020
- 2-page paper submission in **IEEE format**: February 29, 2020
- Acceptance Notification: March 10, 2020
- Author Registration: March 15, 2020
- Extended Manuscript for **Elsevier Book Chapter**: May 15, 2020

REGISTRATION :

- Indian Academician/Scientist/Scholar (IEEE member): INR 2500
- Indian Academician/Scientist/Scholar (non-IEEE member): INR 3000
- Foreign Academician/Scientist/Scholar (IEEE member): USD 75
- Foreign Academician/Scientist/Scholar (non-IEEE member): USD 100
- Industry Delegates: INR 5000,
- Participation without paper: INR 1500

CALL FOR PAPERS:

Proposed tracks for invited talks and contributory papers (not limited to):

- Electron devices, systems and circuits for healthcare
- Biomedical Sensors and Transducers, Biomedical Signal Processing, antennas and propagation, sensor networks, big data analytics
- Spectroscopy, Medical imaging and image processing techniques
- Biomaterials, Tissue engineering and Drug Delivery Systems
- Biophysical modelling and simulation
- Bio-robotics and Biomechanics
- Machine learning, Machine intelligence, IoT, IoHT, and AI in diagnostic and therapeutic systems
- Neural and rehabilitation engineering
- VLSI, Nano-technology, nano-science and nano-medicine
- Medical Physics & Electronics, Materials
- Control systems, Robotics, Automation & Vision
- Modelling /Simulation of devices
- Communication, Networking, Biotelemetry
- Photonics, Optical technology in bio-engineering
- Bio-informatics, Bio-engineering
- Innovative Intelligent Systems & Applications

The accepted papers will be published in CD proceedings (with ISBN number). Extended version of accepted and presented papers in the conference will be considered for publication as book-chapters, selectively in the following edited Volume / Series (SCOPUS enlisted):

Elsevier book - an edited book volume (SCOPUS Indexed, ISBN numbered) titled "**Recent Trends in Computational Intelligence Enabled Research**" under the book series: Hybrid Computational Intelligence for Pattern Analysis and Understanding.

Springer Book series (Scopus indexed, ISBN numbered) "**Lecture Notes in Bioengineering**". (Under progress).

Abstracts will be accepted online through **Easy Chair portal**.

2 Page paper submission template can be downloaded from the conference website

Contact Us:

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9432863707 (Mr. Susamay Samanta, Publicity Chair)