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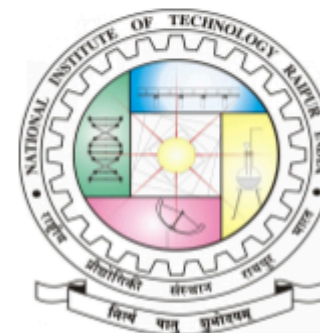
Asst. Prof., Dept. of Biomedical Engineering
NIT Raipur

3rd International Conference on Biomedical Engineering Science and Technology: Computational Methods in Biomedical Research (ICBEST 2025) (Hybrid mode)

April 10-11, 2025

Organized by

Department of Biomedical Engineering
National Institute of Technology Raipur
G.E. Road, Raipur
Chhattisgarh-492010
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About the Institution

National Institute of Technology (NIT) Raipur, formerly known as Government Engineering College (GEC) Raipur, is situated in the capital city of Chhattisgarh state. The institute has established its unique identity for the development of high-quality human and knowledge resource in diverse area of technology. It was declared as 'National Institute of Technology' by the Government of India on 1st December 2005 and then an 'Institute of National Importance' in May 2007 vide National Institute of Technology Act 2007. With over six decades of glorious history as a premier technical education institution in India, NIT Raipur now offers 12 UG and 11 PG programs. In addition to the UG and PG programs, NIT Raipur also offers Ph.D. program in 18 disciplines of science and technology.

About the Conference

The conference aims to provide a forum for researchers, practitioners and professionals from the industry and the academia to share their research trends, findings, and results. The Conference will highlight multidisciplinary perspectives to interested Biomedical Engineers, software engineers and computer professionals, medical professionals, biotechnologists, pharmaceutical experts, sustainability researchers etc. and will also provide a platform for potential knowledge exchange on recent trends, theories and practices in the field of medical science and engineering. Biomedical is one of the emerging fields that can add new and better application in a wide range of sectors like healthcare, service sector, and processing industry to name some. Health research has high value to society. The most familiar form of health research is the clinical trial, but an increasingly large portion of health research is now information based. A great deal of research entails the analysis of data and biological samples. The conference will discuss advancements that will enable the researchers to develop better health facilities, huge data processing techniques for medical application and non-invasive diagnosis methodology, produce preventive vaccines.

Call for Papers

Research articles are invited in the following areas of interest, but not limited to:

Artificial Intelligence in Healthcare

- Pattern Recognition in Healthcare
- Computational Intelligence in Bio-Signal Processing
- Biomedical Image Processing
- Computational Neuroscience
- Natural Language Processing for augmented Community Wellbeing
- Machine Learning and Deep Learning Intervention for improved and automated Healthcare
- Optimization Techniques for Mental Health and Cognitive Assessment
- Internet of Medical Things
- Explainable and Interpretable AI in Healthcare
- Sustainable Healthcare using AI and Computer-aided diagnosis (CAD) systems

Computational Mechanics in Healthcare

- Multiphysics Modelling
- Multiscale Modelling
- Patient Specific Modelling
- Hard/ Soft tissue constitutive Modelling
- Material Modelling
- Thermal, Fluid and Bio tribology Simulations
- Musculoskeletal Modelling

Health Informatics

- Data and Text Mining Techniques in Healthcare
- Big Data Analytics in Healthcare
- Mobile and Digital Health
- Electronic Health Records (EHR)
- Electronic Patient Records
- Knowledge Management
- Support for Clinical Decision-Making
- Pervasive Digital Technologies
- AI intervention for Tele healthcare
- Virtual Reality Applications

Submission Types: Research & Review articles*.

Extended Abstract (for poster presentation)

*Review articles which include critical evaluation of existing studies will only be considered.

Paper submission: Papers must be submitted through online portal given below:

<https://confseries.in/ICBEST2025>

Paper must also be emailed simultaneously to icbest_bme@nitrr.ac.in

Important Dates

Paper Submission ends: 25 Jan 2025 (Extended date)

Acceptance Notification: 25 Feb 2025

Camera ready and Registration: 10 March 2025

Conference Dates: 10-11 April 2025

Venue: NIT Raipur

Registration Process and Fees

Students (UG/PG): 3000 INR (100 USD)

PhD/PDF/JRF/SRF/RA : 3500 INR (150 USD)

Faculty: 4000 INR (200 USD)

Industry participant: 6000 (300 USD)

Additional 18% GST will be applicable in each registration category. Registration form and payment details are available on the Conference website.

Highlights – Best Technical Paper Award for each technical session/track and Best Poster Presentation Award

Publications Opportunities

Note: **Accepted papers in previous versions of ICBEST (2018 and 2023) were published in scopus indexed prestigious Springer book series (LNBE and CCIS) with no additional fee.** The fee includes presentation of an accepted paper at conference, publication in softcopy of abstract book. Based on the recommendations of the reviewer(s) the accepted full-length articles of ICBEST 2025, will be published in Scopus indexed Springer book series (approval pending)/journal special issue. Additional fee (if any) will be borne by authors.