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NIT Raipur

2nd International Conference on Biomedical Engineering Science and Technology: Roadway from Laboratory to Market

(ICBEST 2023)

Theme: Computing in Biomedical Research

February 10 – 11, 2023

Organized by

Department of Biomedical Engineering

National Institute of Technology Raipur

G.E. Road, Raipur

Chhattisgarh-492010

Conference Website: <https://confseries.in/>



Correspondence/contact

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Springer



Scopus®

Important Dates

Paper Submission Ends	25 Dec 2022
Paper Notification	5 Jan 2023 onwards
Registration Deadline	20 Jan 2023
Conference Dates	10-11 Feb 2023
Venue	NIT Raipur

Registration Process and Fees

Interested participants shall pay the registration fee either directly to the bank account through NEFT or send a demand draft (DD) in favor of "Director NIT Raipur". Registration form and payment details are available on the Conference website (<https://confseries.in/>).

Category (Author)	INR	USD
Student/Research Scholar	4000 +18% GST	100
Faculty	5000 +18% GST	200
Industry	6000 +18% GST	300

Publication Opportunities



Based on the recommendations of the reviewer(s) and subsequent quality checks by publishing partner, the authors may get following publication opportunities:

1. It is planned to publish the proceedings with Springer in their Prestigious Communications in Computer and Information Science series (final approval pending). This series is indexed in SCOPUS.
2. Some best papers of conference may be recommended for publication in Scopus indexed book as book chapter.

Call for Papers

Research articles are invited in the following focused areas of interest:

Track 1: 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

Track 2: 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

Track 3: 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 articles
 - Review articles*
 - Extended abstract (for poster presentation)
- *Review articles which include critical evaluation of existing studies, research gaps and future steps in scope of conference will only be considered.

Format of Paper

Papers to be published in Springer CCIS proceedings should be full papers (12-15 pages in the LNCS/CCIS one-column page format, 400 words per page) and short papers (< 12 pages). Author instructions and template for word file can be found here: <https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines>.

Advisory & Technical Committee

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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, 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 conference will discuss advancements that is and will enable the researchers to develop better health facilities, huge data processing techniques for medical application and non-invasive diagnosis methodology.

Highlights – Best Technical Paper Award and Best Poster Presentation Award