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International Conference on Applications of Intelligent Computing in Engineering and Science (AICES 2022)

Feb 12 – 13, 2022

(Virtual mode)

Organized by



National Institute of Technology Raipur
G.E. Road, Raipur
Chhattisgarh-492010
Website: www.nitr.ac.in



Address of Correspondence

Dr. D. C. Jhariya
Dept. of Applied Geology
dcjhariya.geo@nitrr.ac.in
Dr. B. K. Singh
Dept. of Biomedical Engg.
bsingh.bme@nitrr.ac.in
Dr. Mridu Sahu
Dept. of Information Technology
mrissahu.it@nitrr.ac.in

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 in the multidisciplinary field of intelligent computing. Various applications of intelligent computing in earth and environment science, biomedical engineering, and information technology will be covered. Topics like geospatial analysis, weather and climate forecasting, biomedical imaging and signal processing, internet of things, machine learning and deep learning applications, biomedical instrumentation, medical imaging physics etc. are in the scope of conference. The Conference will highlight diverse perspectives to interested geologists, meteorologists, 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 intelligent computing. Intelligent computing 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. The conference will discuss advancements that will enable the researchers to develop improved approaches for solving science and engineering problems.

Call for Papers

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

Track 1: Computing Technology

- Big Data/ Data Mining/ Text Mining/ Time series Mining /Data Informatics
- Image Processing/Pattern Recognition/Multimedia
- Geographical Information Systems
- Machine Learning / Machine Intelligence / Artificial Intelligence
- Soft Computing (AI, Neural Networks, Fuzzy)
- Internet of Things

Track 2: Intelligent computing in Biomedical Engineering

- nCOVID-19 research
- Health informatics
- Biomedical Signal Processing
- Medical Image Processing
- Biomedical Instrumentation
- Non-Invasive Techniques
- Medical Imaging Physics
- AI & Machine learning in health
- Cognitive Science/Engineering
- Brain Computer Interfaces

Track 3: Intelligent computing in earth and environmental sciences

- Geospatial analysis
- Environment
- Weather and climate forecasting
- Atmospheric science
- Natural hazards
- Medical Geology
- Mineral prospecting and exploration
- Hydrogeology

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.

Important Dates

Paper Submission	:	15 Dec 2021
Paper Notifications	:	31 Dec 2021
Final paper submission and Registration	:	15 Jan 2022
Conference Dates	:	12-13, Feb 2022
Venue	:	Virtual mode

Registration Process

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.

Category (Author)	INR	USD
Student / Research Scholar	6000	100
Faculty	6500	150
Industry	8000	200

Publications Opportunities

*The fee includes presentation of an accepted paper at conference, publication in softcopy of abstract book and Based on the recommendations of the reviewer(s) the accepted full-length articles will be published in Scopus indexed IOP journal of physics (conference series) /Springer book series (approval pending).

Highlights

- **Best Technical Paper Award**
- **Best Poster Presentation Award**