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Organized by

**Department of Computer Applications,
Computer Science & Engineering and
Information Technology**

Amal Jyothi College of Engineering,
Kanjirappally, Kottayam

PUBLICATIONS
IOP SCIENCE

Material Science & Engineering
IOP Conference Proceedings Journal



aicera2020@amaljyothi.ac.in



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AICERA 2020

ANNUAL INTERNATIONAL CONFERENCE on
EMERGING RESEARCH AREAS



AICTE Sponsored Scopus Indexed International E-Conference on

**Computing & Communication Systems
for a Fourth Industrial Revolution**

Scope of the Conference

AICERA-2020 aims to create a platform for open communication and idea exchange on the recent Technological and Engineering developments. This conference provides an international forum for sharing knowledge and innovations in the field of Computer Science and Information Technology. The three-day event will provide exposure to erudite work by researchers in the field of engineering. It also facilitates interaction among academicians, engineers and research scholars. Sessions on the side-line will discuss recent advances, challenges, breakthroughs and research innovations on various engineering aspects of green technologies. The conference consists of keynote lectures, tutorials, workshops and oral presentations on all aspects of Engineering and Science. Researchers are invited to speak and present the latest developments and technical solutions in their recent multidisciplinary area.

About Amal Jyothi

Amal Jyothi College of Engineering, Kanjirappally, is the first new generation engineering college in Kerala to secure the prestigious NBA accreditation for prime departments and the first engineering college having NAAC accreditation with 'A' grade. Amal Jyothi is approved by the All India Council for Technical Education (AICTE), New Delhi. It is affiliated to APJ, Abdul Kalam Technological University, Thiruvananthapuram since 2015. During the year 2001-2014, the college was affiliated to Mahatma Gandhi University, Kottayam. The main features of the college comprise world-class infrastructure, top-flight faculty, high pass percentage, excellent placement record, and unique student projects.

Publication details

- › Authors are invited to submit original unpublished full papers electronically to Easy chair using the link:
<https://easychair.org/conferences/?conf=aicera2020>
- › Papers should not exceed 6 pages
- › At least one of the authors is required to register and attend the conference for presenting the paper.

- › The maximum number of authors is restricted to 3. However additional authors may be allowed on payment of Rs. 1,000/-for each author.
- › All the accepted papers will be published in IOP Conference Series: Materials Science and Engineering [Scopus indexed].
- › **Full paper submission guidelines are mentioned in the conference website.**

Topics

The key topics of the conference include (but not restricted to)

TRACK 1: DATA MINING & COMPUTATIONAL INTELLIGENCE TECHNIQUES

- › Pattern Analysis and Mining
- › Spatial & Temporal Mining
- › Big Data, Mining with Data Clouds
- › Text & Web Mining, Optimization Methods
- › Data Integration & Exchange, Image Processing and Segmentation
- › High performance and Parallel/distributed data mining
- › Artificial Intelligence & Machine Learning

TRACK 2: GREEN COMPUTING AND NEURAL NETWORKS

- › Brain Machine Interface
- › Surface Computing
- › Evolutionary Algorithms
- › Soft computing
- › Swarm Intelligence
- › Artificial Neural Networks
- › Genetic Algorithms
- › Advanced Optimization techniques
- › Renewable Energy Based Techniques
- › Smart Buildings
- › Eco-friendly Computing & Green Cloud Computing
- › The Smart City



Topics contd...

TRACK 3: ADVANCE ENGINEERING APPLICATIONS

- › Natural Language Processing
- › Cognitive Science
- › Cybernetics Technology
- › Nanotechnology
- › Climate/Environmental Science
- › Bio-surveillance
- › Sensor Network Applications
- › Social Network Analysis
- › Intelligence Analysis
- › Body Area Network Remote Sensing & GIS Application
- › Steganography & Authentication
- › Data / Image Compression
- › Digital Image Processing
- › Medical image analysis
- › Image and Pattern analysis
- › Computational Biology and Bio-Informatics
- › Biomedical imaging and Sensing
- › Bio-Technology
- › Cyber-Physical Systems Computational methods in Nanoscience
- › Quantum Computing
- › Simulation and Modelling
- › Deep Learning Applications

TRACK 4: ICT (INFORMATION AND COMMUNICATION TECHNOLOGY)

- › Cloud Computing
- › Internet of Things (IOT)
- › Soft Computing
- › Machine Learning Algorithms
- › Software Engineering and Quality
- › Cyber Security
- › Virtual Reality
- › Cryptography
- › Geographic Information Systems

TRACK 5: THEORETICAL COMPUTER SCIENCE

- › Algebraic Graph Theory and Combinatorics
- › Rewriting Systems
- › Automata, Games and Formal languages
- › Computational Complexity Theory
- › Membrane Computing, L systems and DNA computing
- › Quantum Automata
- › Logic in Computer Science
- › Computational Biology and Bio-Informatics
- › Approximation algorithms
- › Parallel and distributed algorithms
- › Graph theory Applications
- › Statistical computing



Publication & Indexing

All accepted and presented papers will be published in the Open Access Publisher: IOP Conference Series: Material Science and Engineering (MSE) (ISSN: 1757-8981) which normally will be indexed by Conference Proceedings Citation Index – Science (CPCI-S) Thomson Reuters, Web of Science, EI Compendex and SCOPUS.

Extended version of the selected papers will be published in the Web of Science indexed, Science Citation Index Expanded and SCOPUS Indexed journals on a nominal fee, which will be announced later.

PUBLICATIONS IOP SCIENCE

Material Science & Engineering IOP Conference Proceedings Journal

Contd...



Dates to remember

Paper Submission opens: **01.09.2020**

Submission Deadline: **20.11.2020**

Notification of Acceptance: **30.11.2020**

Camera Ready Paper Registration deadline: **06.12.2020**

Conference Dates :**14.12.2020 to 16.12.2020**

Registration details

Category	Fees (INR)	Fees (\$)
Students/Research Scholars	6000	
Industry Delegates	7000	
Foreign Delegates		150
Attendees	500	

Payment Methods

If you are using NEFT/RTGS/ Net transfer, kindly ensure Paper ID is clearly mentioned in the Funds Transfer Application. If you are using DD, kindly ensure that the Participant/Author name, Paper ID and Conference Title are clearly mentioned at the back of the DD.

Bank details

Name of Account : **AICERA**

Acc No : **0844053000001051**

Bank Name : **South Indian Bank**

IFSC Code : **SIBL0000844**

Amal Jyothi Engg College EC Branch

DD details : **AICERA Payable at Kanjirappally**

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