INTERNATIONAL CONFERENCE
ON
ARTIFICIAL INTELLIGENCE FOR SUSTAINABLE APPLICATIONS

A Spectrum of Opportunities

VIRTUAL MODE

ICAISA - 2021

DECEMBER 16 - 18, 2021

ORGANIZED BY
DEPARTMENT OF INFORMATION TECHNOLOGY
PSG COLLEGE OF TECHNOLOGY, COIMBATORE

Technically Supported by

BOSCH

ABOUT THE COLLEGE

PSG College of Technology, an ISO 9001:2000 certified institution is one of the foremost institutions founded by the PSG & Sons' Charities Trust (1926). The College was established in the year 1951 and the Founders wisely decided to locate it in the same campus as the PSG Industrial Institute for effective industry-institute interaction. The founder Principal Dr. G R Damodaran was instrumental in the planned growth of the institution from the humble beginnings in 1951 to the present status of a world-renowned technological institution. The College today has a student strength of about 8518 with 15 engineering and technology departments. More than 600 research scholars are pursuing research programmes leading to Ph.D. / MS / M Tech degrees and the college is a recognized QIP centre for Postgraduate and Ph.D. programmes. Several advanced centres are set up with financial support from the Ministry of Human Resources Development, DST and other agencies. The programmes of the college are recognized all over India and abroad.

ABOUT THE DEPARTMENT

The Department of Information Technology was established in the year 1999 with a vision to develop quality engineers to meet the current needs in the emerging world of IT. The department endeavours to educate students to acquire technical expertise and knowledge in the field of Information Technology. The department offers an under graduate programme B.Tech IT and two post graduate programmes M.Tech IT and M.E. Biometrics and Cyber Security. The Department is Anna University recognized research centre with more than 25 Scholars pursuing research. Funded research projects sponsored by AICTE, DST - CSRI and UGC are under progress in the area of security, analytics, etc. The department has signed MoU with Samsung PRISM and Boston Creative Company for innovative projects.

THEME OF THE CONFERENCE

The advent of recent technologies and demand for Information and Communication Technology (ICT) based applications such as Artificial Intelligence, Machine Learning, IoT, Health Care, Data Analytics, Augmented Reality / Virtual Reality, Cyber Physical Systems, Future Generation Networks have gained more priority and have become much more essential component in the modern time. In the recent times, Artificial Intelligence (AI) plays a significant role in everyday activities of life. AI not only creates opportunities however conjointly brings greater challenges to the sustainable development of engineering applications. Therefore, the association between Artificial Intelligence and sustainable applications is essential. Moreover, applications of sustainable products have come a long way in the past few decades, driven by social & environmental awareness and abundant modernization in the pertinent field.

New research efforts are inevitable in designing sustainable applications and communication between them becomes a promising field to explore. The motivation behind this conference is to provide a common forum for researchers, practitioners to present and discuss their latest research ideas and developments. The outcome of the conference will focus on how the Artificial Intelligence is useful in achieving the sustainable solutions through sharing innovative ideas using interdisciplinary research.

CONFERENCE TRACKS

We invite papers addressing the use of Artificial Intelligence for Sustainable Development, but not limited to:

Track 1: AI for Computer Vision
- Image and Signal Processing
- Audio and Speech Processing
- Computer Graphics and Multimedia
- Digital Twin
- Sensor Technology
- Bioinformatics

Track 2: AI for Data Analytics
- Data Mining Statistical Analysis
- Natural Language Processing
- Cloud and Distributed Computing
- Machine Learning
- Cognitive Computing
- Quantum Computing

Track 3: AI for Communications and Networks
- Wireless Communications and Networks
- Stochastic Processes and Queueing Theory
- Game Theory
- 5G Networks
- Edge and Fog Computing
- HPC and Parallel Computing

Track 4: AI for IoT
- Embedded Systems
- Service Oriented Architecture (SOA)
- Industry 4.0
- Smart Grid
- Smart Healthcare Devices
- Sustainable Development and Smart Surveillance

Track 5: AI for Security
- Cyber Security
- Network Security
- Threat Intelligence
- Blockchain Technology
- Malware Analysis
- Cyber Forensics

KEYNOTE SPEAKERS

Dr. Zhou Liang

Research Centre for Medicine
Intelligent and Development

Shanghai Jiao Tong University
China

Dr. Vijayan K. Asari

Department of Electrical and
Computer Engineering

University of Dayton
USA

Dr. Millie Pant

Department of Applied
Science and Engineering

Indian Institute of Technology
Roorkee
India

Dr. Diego Oliva

Department of Computer
Sciences

Universidad de Guadalajara
Mexico

Dr. Barath Narayanan

Department of Electrical and
Computer Engineering

University of Dayton
Research Institute
USA

Dr. A. Srinivasan

Department of Robotics
and Automation

CSIR-Central Mechanical
Engineering Research Institute
Durgapur
India

REGISTRATION FEE

Registration category	INDIAN DELEGATES			FOREIGN DELEGATES
	Academia		Industry	Faculty Members / Industry / Research Scholar
	Faculty Members	Full Time Research Scholar / PG Students		
Preconference Workshop Only	1000 INR	750 INR	1500 INR	50 USD
Conference Only	5000 INR	4500 INR	6000 INR	100 USD
Preconference workshop & Conference	5500 INR	5000 INR	7000 INR	125 USD
Listener	1250 INR			40 USD

• Inclusive of all taxes

For paper submission and registration, kindly refer this link www.psgtech.edu/ICAISA21

SPONSORSHIP OPPORTUNITIES

Industries / Startups / Product Companies / Dealers / Suppliers / Retailers are requested to grab the following sponsorship opportunities:

Platinum sponsor	50,000 INR
Gold sponsor	30,000 INR
Silver sponsor	20,000 INR
Bronze sponsor	10,000 INR

SOUVENIR ADVERTISEMENT OPPORTUNITIES

Category	Foreign Sponsors	Indian Sponsors
Full page color	150 USD	4000 INR
Half page color	75 USD	2000 INR

PUBLICATIONS

• Conference proceedings will be published by Renowned Publishers (waiting for approval)
• The extended version of the conference paper will be recommended to the following journals:

Journal of The Institution of Engineers (India): Series B [Scopus indexed journal]

https://www.springer.com/journal/40031

Iran Journal of Computer

https://www.springer.com/journal/42044

SCHEDULE

16.12.2021 : Pre-Conference Workshop
- Samsung PRISM, Bangalore

17.12.2021 : International Conference – Day 1
- Keynote Addresses
- Panel Discussion
- Paper Presentations (Oral / Poster)

18.12.2021 : International Conference – Day 2
- Keynote Addresses
- Paper Presentations (Oral / Poster)

IMPORTANT DATES

Submission Deadline: July 30, 2021
Acceptance Notification: September 15, 2021
Conference Dates: December 16 – 18, 2021

MODE OF PAYMENT

Payment of registration fee can be made through this link
www.psgtech.edu/ICAISA21

ORGANIZING COMMITTEE

CHIEF PATRON

Shri. L. Gopalakrishnan
Managing Trustee

PATRON

Dr. K. Prakasan
Principal In-Charge

CONVENER

Dr. K. Umamaheswari
Professor & Head

ORGANIZING SECRETARIES

Dr. B. Vinoth Kumar, Associate Professor
Dr. V. Ilayaraja, Assistant Professor (Sel. Gr.)
Dr. S. K. Somasundaram, Assistant Professor (Sel. Gr.)
Dr. P. Sivakumar, Assistant Professor (Sr. Gr.)

FOR MORE INFORMATION, CONTACT:

Dr. B. Vinoth Kumar,
Associate Professor
Department of Information Technology,
PSG College of Technology,
Peelamedu, Coimbatore 641004
Tamilnadu
📞 9500721416

Dr.P.Sivakumar,
Assistant Professor (Sr.Gr)
Department of Information Technology,
PSG College of Technology,
Peelamedu, Coimbatore 641004
Tamilnadu
📞 9500908898

✉ icaisa21@gmail.com
🌐 www.psgtech.edu/ICAISA21