



CTFC-2023

Conference on Technologies for Future Cities

3rd in the Series

6th - 7th October 2023

Organized by

Mahatma Education Society's

Pillai College of Engineering

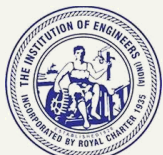
Autonomous Institute Affiliated to University of Mumbai
(NAAC A+ Accredited, NBA Accredited, ARIIA Band 'Performer')

Conference Venue

Dr. K. M. Vasudevan Pillai Campus
Sector 16, New Panvel, Navi Mumbai – 410206, Maharashtra, India.

Website : <https://www.futurecities.mes.ac.in>, Email: ctfc@mes.ac.in

Sponsors/Knowledge Partners



Navi Mumbai
Local chapter



About Pillai College of Engineering

Pillai College of Engineering (Erstwhile Pillai Institute of Information Technology until April 2016), established in 1999 under the patronage of Dr K M Vasudevan Pillai, is a reputed engineering college in Navi Mumbai. It is affiliated to the University of Mumbai, approved by All India Council for Technical Education (AICTE), New Delhi and is recognized by Government of Maharashtra. PCE has 6 UG, 6 PG and 4 PhD Research Centers. The UG program offered are Automobile Engineering, Computer Engineering, Information Technology, Electronics & Computer Science, Electronics and Telecommunication Engineering and Mechanical Engineering. The institute is NAAC accredited with A+ grade and five departments have been accredited by NBA. The institute strives to provide state of the art facilities conducive to effective teaching-learning, research and consultancy. It further takes every effort in inculcating in the minds of students the respect for the environment. Faculty of PCE is very active in R & D and have completed projects for government agencies such as DST, BRNS, ICSSR and UGC. PCE has also has undertaken and completed urbanization studies for UN office project on 'Urban Expansion' in collaboration with New York University and continues to provide consultancy in similar fields to Tata Consultancy Engineering (TCE) and CIDCO.

About the Conference

Cities in developing countries are rapidly expanding. India has 438 cities with a population of more than 100,000 people, accounting for 11% of the world's cities. It is expected that the urban population will be doubled in next 25 years. Unfortunately, the development is unplanned and chaotic, resulting in inequitable distribution of public services, costly housing, a lack of adequate streets and roads, and insufficient open spaces. Scientists and engineers all over the world are looking for technological solutions to problems such as poor urban planning, non-availability of affordable housing, deficiency in water supply or electricity, unorganized traffic, poor quality public transport and parking facilities, poor healthcare system, waste management, air and water pollution, etc.

Pillai College of Engineering has taken a timely lead and has started a series of conferences on "Technologies for Future Cities" to examine some of the challenges raised above. The invited talks and contributed papers covered six tracks, namely (i) Software technologies for future cities, (ii) Hardware technologies for future cities, (iii) Systems for future cities, (iv) Materials for future cities, (v) Healthcare for future cities and (vi) Policies and governance for future cities. The first conference in the series was held during January 08-09, 2019 and second conference during October 08-09, 2021. Both the conferences was a great success. There were about dozen invited talks followed by a Panel Discussion. About 250 scientists and engineers attended the conference. The full details of the conferences are available on www.futurecities.mes.ac.in.

About Panvel, Navi Mumbai

Panvel is an old town in Raigad District of Maharashtra and is famous for its heritage of lakes, temples, nearby sanctuary and forts. Panvel Municipal Corporation is the first Municipal Corporation of Raigad. The authority of City and Industrial Development Corporation (CIDCO) has been the backbone in the development of Panvel. The town is situated on the outskirts of Mumbai and is all set to become the new transportation hub of Maharashtra serving the major trade and passenger routes by road, rail and air. It is reachable from Mumbai railway stations by local train and by taxi from Mumbai airport. Depending on the starting point, the travel time varies but, generally, does not exceed 90 minutes.

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Dr. Priam Pillai

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Track Chairs

Software Technologies for Future Cities

Dr. Sharvari Govilkar, PCE
Dr. Archana Patankar, TSEC

Hardware Technologies for Future Cities

Dr. Monika Bhagwat, PCE
Dr. Sudhakar Mande, DBIT

Systems for Future Cities

Dr. Gajanan Thokal, PCE
Dr. S R Mohanty, IIMP-PGDM

Policies, Governance and Education for Future Cities

Dr. Leena Potdar, PCE
Dr. Reni Francis, PCER

Materials for Future Cities

Dr. Jeet Patil, PCE
Dr. Raju Bhosale, PCCOE

Healthcare and Fitness for Future Cities

Dr. Shreedevi Kulkarni, PCE
Dr. Mansee Thakur, MGMSBS MGMIHS

Topics under Tracks

Software Technologies for Future Cities

- Image & Video Processing
- Artificial Intelligence and Machine Learning
- Cyber Security & Digital Forensics
- Cloud Computing
- Data Mining and Information Retrieval
- GIS and Remote Sensing
- Augmented Reality/Virtual Reality
- Natural Language Processing & Data Science

Systems for Future Cities

- Manufacturing Systems
- Transportation Systems
- Disaster Management and Early Warning Systems
- Water Supply and Sanitation
- Pollution Control and Waste Management
- Supply Chain Management
- Heating, Ventilation, Air Conditioning and Refrigeration Systems
- Green Technology & Sustainability Engineering

Policies, Governance and Education for Future Cities

- Use of ICT in urban planning, services and management of utilities
- Infrastructure Management for Healthcare, Education and Sports
- Modern Educational System
- Integrated Water Management System
- Efficient & Environment friendly transport system
- Police & cyber security and Financial inclusion

Hardware Technologies for Future Cities

- Embedded and Automation Systems
- Internet of Things
- VLSI
- Real time monitoring and Signal Processing
- Smart Mobility
- Smart Grids
- Communication Systems
- Sensors, Actuators and Robotics

Healthcare and Fitness for Future Cities

- Digital healthcare & Technologies in medicine
- Use of ICT for medical records or infrastructure
- Use of robotics in surgery
- Quantitative methods in medical imaging
- Supply chain for fresh and hygienic food
- Methods to monitor food products quality
- Physical and mental fitness monitoring

Materials for Future Cities

- Nanomaterials, Polymers and Composites
- New Construction Materials
- Sustainable & Biocompatible materials
- Alternate Fuels
- Packaging Materials
- Recycling and efficient use of materials

Call for Papers

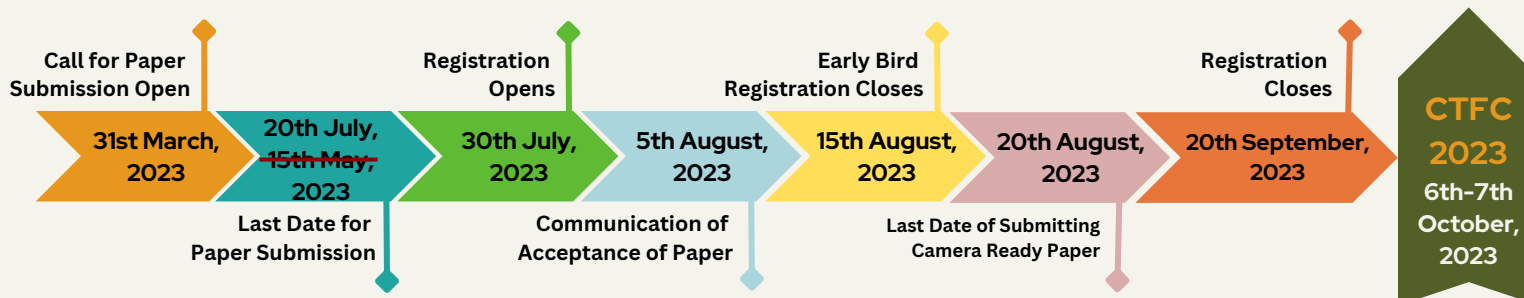
Paper are invited from researchers/academia/Industry under different tracks. Manuscripts will be checked for plagiarism using turnitin and peer reviewed. Based on the review, the manuscripts will be accepted for Oral/Poster presentation. The guidelines for preparing manuscript and template for same are available on conference website. All the papers selected and presented at the conference will be published in any one of the below:

- Advanced Engineering Forum (SI) ISSN: 2234-9898 - UGC Care List
- The Scientific Temper (SI) ISSN: 0976-8653 / 2231-6396 - Web of Science
- Proceeding Book with ISBN number

Selection criteria for Journal publication will as per individual requirement of the Publisher

Manuscripts submission will be through Microsoft CMT. Click <https://cmt3.research.microsoft.com/CTFC2023> to submit your manuscript.

Timeline



Awards

- Best Oral Presentation under each Track
- Best Poster Award
- Young Researcher Award

Complementary Workshops

- 3D Printing - Addonix Technologies Pvt. Ltd.
- Embedded Internet of Things - Digtoid technologies

Registration

| Category | Author* | | Attendee | |
|----------------------|------------------|---------------|------------------|---------------|
| | Early Bird (INR) | Regular (INR) | Early Bird (INR) | Regular (INR) |
| Student | 1200 | 1500 | 800 | 1000 |
| Faculty / Scientists | 1600 | 2000 | 1200 | 1500 |
| Industry Delegates | 4000 | 5000 | 2400 | 3000 |
| Foreign Delegates | 80 USD | 100 USD | 60 USD | 75 USD |

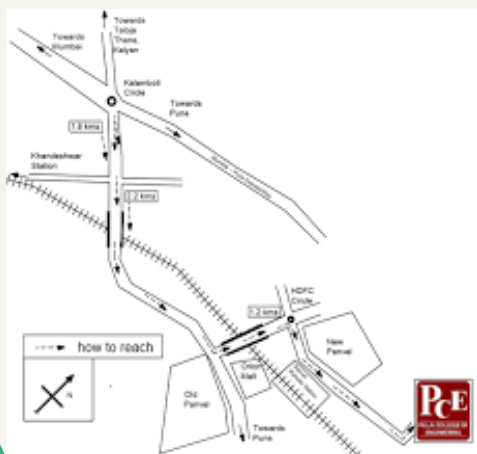
- The registration fees include conference kit, Abstract book, refreshments and lunch at the conference venue and complementary workshops.
- Accommodation on request could be made available to registered participants on individual or sharing basis subject to availability.

**Publication Charges are additional as applicable*

Stalls available for exhibits at the conference

- Rs. 25000/- (4x4 feet) and Rs.35000/- (8x4 feet)

Travel Map



MAHATMA EDUCATION SOCIETY'S PILLAI GROUP OF INSTITUTIONS (Composite Campuses)

Dr. K M Vasudevan Pillai Campus, New Panvel

Pillai HOCL Educational Campus, Rasayani

Pillai College of Education and Research, Chembur

Dr. Pillai Global Academy, Khanda Colony

Mahatma School of Academics and Sports, Khanda Colony

Dr. Pillai Global Academy, Gorai

For any other details please visit conference website www.futurecities.mes.ac.in