



Mahatma Education Society's  
Pillai College of Engineering



Conference  
On  
**Technologies for Future Cities 2019**  
**(CTFC-2019)**

On  
8<sup>th</sup> - 9<sup>th</sup> Jan 2019

Organized by  
**Pillai College of Engineering (PCE)**

Dr. K. M. Vasudevan Pillai Campus  
Plot No. 10, Sector 16, New Panvel – 410206  
Maharashtra, India

Contact: 022 – 2748 1764

**Website** : <https://www.futurecities.mes.ac.in/>

**Email**: [ctfc@mes.ac.in](mailto:ctfc@mes.ac.in)



## **About Pillai College of Engineering:**

PCE, Pillai College of Engineering (Erstwhile PIIT, Pillai Institute of Information Technology until April 2016), established in 1999 under the patronage of Dr K M Vasudevan Pillai, has always sought to develop in its students a sound technical foundation while encouraging their natural curiosity and believes the true success of engineering in complementing theory with practice. The institute 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 and DTE, Maharashtra. 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. PCE is approved Research Centre of Mumbai University, which offers PhD degrees in Mechanical Engineering and Computer Engineering. Pillai College of Engineering has successfully 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 Conference:**

Humanity expects more inflow to cities in near future. Technologies need to evolve to keep pace with the anticipated urbanization to support a sustained increase in standard of living. Needs are diverse, from simple basic to complex sophisticated desires. A collective solution demands merger of cutting edge technologies through collaborative engineering. The problems are bound to be multidisciplinary and the required approaches need to be interdisciplinary. This conference aims at providing a common platform for experts and novices to meet, present their work and exchange ideas on the diverse fields possibly aiding the subject cause in near future. The conference would consist of contributory papers and invited talks. The full details of the conference are available on [www.futurecities.mes.ac.in](http://www.futurecities.mes.ac.in)

## **About Panvel:**

Panvel is the first Municipal Corporation of Raigad, has been the oldest municipal council of Maharashtra. The city is also famous for its heritage of lakes, temples, nearby sanctuary and forts. The authority of City and Industrial Development Corporation (CIDCO) has been the backbone in the development of Panvel. Located on the outskirts of Mumbai, Panvel has been all set to become the new transportation hub of Maharashtra serving the major trade and passenger routes by road, rail and air.

## **Patrons**

Dr. K.M.Vasudevan Pillai, CEO, MES  
Dr. Daphne Pillai, Secretary, MES  
Dr. Priam Pillai, COO, MES  
Mr. Franav Pillai, Dy CEO, MES  
Prof. Munawira Kotyad, Professor, PHCET

## **Convener**

Dr. S M Joshi, Principal, PCE

## **Secretary**

Dr. P S Goyal, Dean R&D, PCE

## **Joint Secretaries**

- Dr. Onkar S Sahasrabudhe, Department of Mechanical Engineering, PCE
- Dr. Avinash Vaidya, Department of Electronics and Telecommunication Engineering, PCE
- Dr. Mahendra Khandkar, Department of Physics, PCE

## **Organising Committee**

- Dr. Madhumita Chatterjee, PCE
- Dr. Sharvari Govilkar, PCE
- Dr. Dhanraj Tambuskar, PCE
- Dr. Divya Padmanabham, PCE
- Dr. R H Khade, PCE
- Dr. Arun Pillai, PCE
- Dr P S Lokhande, PCE
- Dr. Lata Menon, PHiMSR
- Dr. Chelapa Lingam, PHCET
- Dr. Arif. N. Merchant, PiCA
- Dr. Satish Nair, PIMSR
- Dr. Sally Enos, PCER
- Prof. Amar Mange, PHCP
- Mr. P. Kumaran, PCE

## **Tracks and session (Coordinator)**

- Software Technologies (Dr. Madhumita Chatterjee, PCE)
- Hardware Technologies (Prof. Monika Bhagwat, PCE)
- Systems for Future Cities (Dr. Priam Pillai, PCE)
- Materials for Future Cities (Dr. Divya Padmanabhan, PCE)
- Policies and Governance for Future Cities (Dr. Satish Nair, PIMSR)

# International Advisory Committee

- Dr. Leisa Armstrong, Edith Cowan University, Perth, Australia
- Dr. D K Aswal, Director, CSIR-NPL, Delhi
- Dr. Santanu Chaudhury, Director, CSIR-CEERI, Pilani
- Prof. S L Dhingra, IIT Bombay, (retd)
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- Mr Patrick Lampson Hall, New York University, USA
- Padam Shri S P Kale, BARC(retd), Mumbai
- Dr. Saurabh Nagar, Helmholtz-Zentrum Berlin für Materialien und Energie, Germany
- Dr Shyam Karode, Himarn Tech. Ltd, UK
- Dr. Rakesh Kumar, Director, CSIR-NEERI, Nagpur
- Prof. Prashant Waghmare, University of Alberta, Canada
- Prof. Joshua Taylor, University of Toronto, Canada
- Dr P.K. Tewari, Associate Director (Retired) Chemical Group, BARC, Mumbai

## National Advisory Committee

- Dr. Milind Akarte, NITIE, Mumbai
- Dr. Dibyendu Sekhar Bag, Joint Director, DMSRD (DRDO), Kanpur
- Dr. Sanjiv Bavishi, Director IBM, Bengaluru
- Mr. Jitendra Bhambure, Blue Star, Mumbai
- Dr. Satyanarayana Bheesette TIFR, Mumbai
- Dr. Suryasarathi Bose, IISc Bangalore
- Dr. Suprotim Das, Senior Manager, R&D, Tata Steel, Jamshedpur
- Dr. Ajay Deshpande, Asian Development Bank
- Dr. V Susheela Devi, IISc Bangalore
- Mr. K R Ghorpade, Chief Planner MMRDA (Retd), Mumbai
- Prof. Ajay Gupta, Amity University, Noida
- Prof. S J Gupta, Computer Society of India, Mumbai Chapter
- Mr. Pankaj Joshi, Urban Planning, Heritage conservation Committee, MMRDA, Mumbai
- Ms. Pritika Hingorani, IDFC Institute, Mumbai
- Dr. Sourabh Jain, Global Foundries, Mumbai
- Dr. A R Kambekar, S P College, Mumbai
- Mr. Prashant Khankhoje, Director, Global Energy Pvt Ltd, Mumbai
- Dr. Vijay Kulkarni, Shapoorji Pallonji Infrastructure, Mumbai
- Dr. Sunil Kumar Koppurapu, Tata Consultancy Services, Mumbai
- Dr. Vijai Kumar, Director, J N College of Technology, Bhopal
- Dr. Abhishek Mahajan, Tata Memorial Hospital, Mumbai
- Ms. Sulakshana Mahajan, Freelance Urban Planner, Thane
- Prof. S S Mahapatra, NIT, Rourkela
- Dr. Bernard Menezes, IIT Bombay, Mumbai
- Prof. Sushil Mishra, IIT Bombay, Mumbai
- Dr. G N Rathna, IISc, Bangalore
- Prof. M V Rane, IIT Bombay, Mumbai
- Prof. M R S Reddy, IIT Madras, Chennai
- Prof. Avik Samanta, IIT Patna, Patna
- Dr. Sasikumar M, Director CDAC, Mumbai
- M Sayyad, Asst. Vice President, Reliance Jio, Mumbai
- Dr. P Shrivastava, PADECO, Mumbai
- Prof. A K Singh, IIT Bombay, Mumbai (Retired)
- Prof. A Srinivasan, IIT Guwahati
- Prof. Radha Srinivasan, University of Mumbai, Kalina, Mumbai
- Prof. S N Talbar, SGGGS, Nanded
- Dr. Jainarayan Tripathi, ST Microelectronics, Mumbai
- Prof. Vikram Vishal, IIT Bombay, Mumbai
- Prof. S K Ukrande, Dean Science and Technology, MU, Principal, KJSCE

# Tracks and sessions for “Conference on Technologies for Future Cities (CTFC) 2019”

## Software Technologies

- Software for Urban Planning, 3D modeling, Urban Land Management, Urban Utilities
- GIS and Remote Sensing
- Crowdsourcing data
- Digital Image and Video Processing
- Use of Internet of Things, Artificial Intelligence, Data Analytics, Machine Learning, Data Analytics and Information Security
- Use of Information and communication (ICT) technologies

## Hardware Technologies

- Home automation
- Electric Vehicles, Self-driving Car
- Controls, Instrumentation and Robotics
- Smart Devices, VLSI, Sensors and Actuators
- Non-conventional energy sources, Energy storage, AC and DC Supplies
- Smart Structures
- Green Buildings

## Materials for Future Cities

- Smart Materials
- Nanomaterials
- Environmental friendly materials
- New Construction Materials
- Recycling and efficient use of materials

## Systems for Future Cities

- Communication Systems
- Power generation and distribution Systems
- Embedded and Automation Systems
- Transportation Systems
- Disaster Management and Early Warning Systems
- Water Supply, Sanitation, Pollution Control, Healthcare, Infrastructure
- Waste management
- Real time monitoring
- Supply Chain Management

## Policies and Governance for Future Cities

- Urban Planning
- Integrated Water Management System including sewage
- Mass transport links and an efficient and environment friendly transport system including maintenance of roads
- Services such as Power Supply, HVAC&R, Waste Management, Disaster management, Efficient Police, Cyber security
- Infrastructure management and facilitation of good Healthcare, Education and Sports.
- Financial Inclusion



## Call for Papers:

The manuscripts should be submitted latest by 15<sup>th</sup> October 2018. The manuscript template is available on [conference website](#). Authors are requested to adhere to the guidelines for smooth processing of the manuscript. Manuscripts will be checked for plagiarism prior to the commencement of peer review process. The comments of the reviewers will be communicated to the authors by 15<sup>th</sup> November, 2018. Selected manuscripts will be hosted online with a highly renowned group at <https://ssrn.com/link/2019-CTFC.html> Mahatma Education Society will also publish the conference proceedings of the selected manuscripts in the form of a book with **ISBN: 978-93-82626-27-5**. The ISBN would bear the reference on the online hosting page. It is mandatory that at least one of the authors registers and presents the paper at the conference. Manuscripts should be sent by email to [ctfc@mes.ac.in](mailto:ctfc@mes.ac.in)

## Important Dates:

|   |            |
|---|------------|
| Last date of submitting Paper                         | 15/10/2018 |
| Communication to authors on acceptance of their Paper | 15/11/2018 |
| Registration Opens                                    | 15/11/2018 |
| Last date of submitting full camera ready manuscript  | 15/12/2018 |
| Last date for Registration                            | 02/01/2019 |

## Accommodation:

Accommodation on request basis could be made available to registered participants on individual or sharing basis subject to availability. During registrations, participants are requested to opt for it well in advance to enable us to make the necessary arrangements. Registration form would be made available on [conference website](#).

## Workshops:

The conference will also host the workshops on following topics:

- Remote Sensing and GIS
- Machine Learning using Python

Experts from Urban Expansion Observatory (UXO) of the institute would provide hands on to the participants. Participants can opt for one of the workshops at the time of conference registration (Option available at the time of conference registration through [conference website](#))

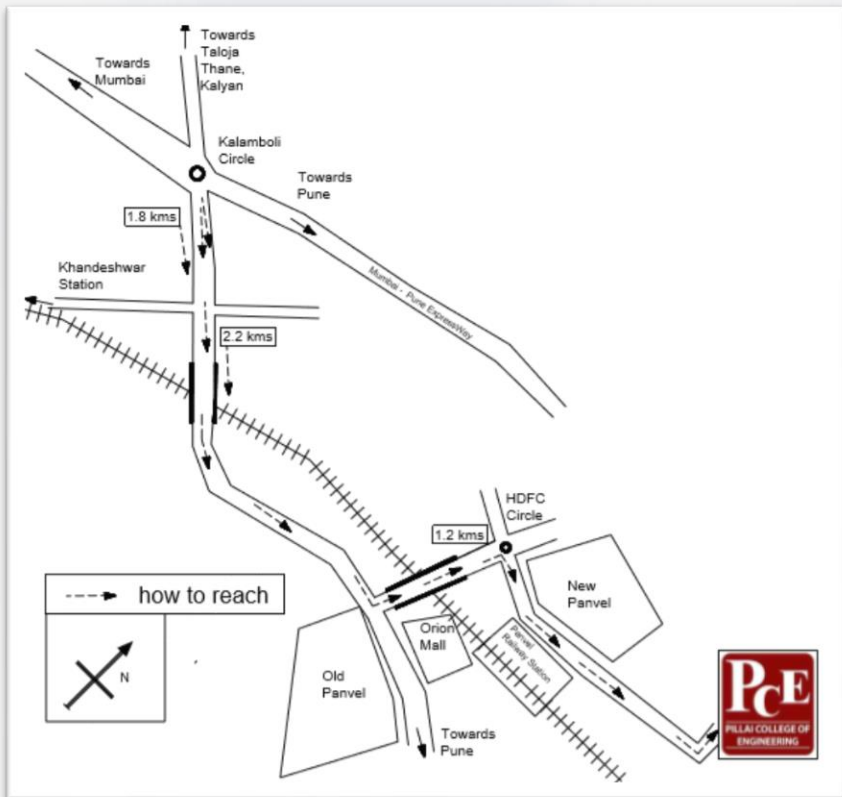
## Registration:

The procedure for registration and payment of fees would be made available on [conference website](#). The applicable fee structure is tabulated below.

| Category                | Registration fee for authors | Registration fee for attendance only |
|-------------------------|------------------------------|--------------------------------------|
| Faculty                 | ₹ 2500/-                     | ₹ 1000/-                             |
| Delegates from industry | ₹ 5000/-                     | ₹ 4000/-                             |
| Students (UG/PG/PhD)    | ₹ 1500/-                     | ₹ 750/-                              |
| Foreign Delegates       | USD 100                      | -----                                |

The registration fees include conference kit, conference proceedings in a CD, refreshments and lunch at the conference venue and a complementary workshop (Content of the workshops is available on [conference website](#)).

## Travel Map:





**MAHATMA EDUCATION SOCIETY'S  
PILLAI GROUP OF INSTITUTIONS**

**Dr. K M Vasudevan  
Pillai campus,  
New Panvel**

**Pillai HOC College of  
Engineering & Technology,  
Rasayani**

**Dr. Pillai Global Academy,  
New Panvel**

**Mahatma School of Academics  
and Sports, Khanda colony**

**Dr. Pillai Global Academy,  
Gorai**

**Mahatma Education Society,  
Chembur**

**Conference Venue :**

**Pillai College of Engineering (PCE)  
Dr. K. M. Vasudevan Pillai Campus  
Plot No. 10, Sector 16, New Panvel – 410 206**

**Maharashtra, India**

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