



SRM IET
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

The Institution of
Engineering and Technology

5th National Workshop on Advances in Positioning, Navigation & Communication APNC 2018

August 16 - 17, 2018

Organized by

Department of CSE, Faculty of E & T, SRM IST,
Kattankulathur, Tamil Nadu - 603 203, India



Convener

Dr. B. Amutha, Professor & Head,
Dept of Computer Science & Engg

The National Level Workshop on Advances in Positioning, Navigation and Communication will take place on 16th and 17th August 2018 in SRMIST, Chennai, Tamil Nadu, India. Accurate location and tracking information are becoming just as important as communication. Although the mobile position-aware systems, combined with modern wireless technologies are becoming increasingly present in daily life, there are still technological obstacles and challenges. This workshop will be devoted to recent advances in positioning, navigation and communications, as well the current state-of-the-art in techniques and system.

LEARNING OBJECTIVES

By attending this workshop, you will gain an understanding of:

- the physical & geometrical properties of location technologies
- how satellite communication enables weather forecasting
- the basis of positioning, its limitations and accuracy
- how location awareness is specified in cellular networks (GSM, LTE.)
- positioning technologies in non-cellular networks (WiFi, WPAN..)
- the fundamentals of GPS & other satellite navigation systems
- India's own satellite navigation system and its importance in critical national applications
- location technologies that are likely to gain traction in the future
- geo-statistical analysis & modelling using GIS tools
- how to use Inertial Measurement Units for Positioning & Navigation

Who should attend?

The workshop will feature a series of Lectures and Hand-on sessions on related software / tools. Hence it is ideally suited for:

- Faculty and students who want a better understanding of location based technologies and services
- Those who need to be brought up to date in the field of GPS / GNSS
- Those who require a working knowledge in geo- statistical analysis and modelling

Prerequisites

Although there are no specific prerequisites, for maximum benefit, familiarity with wireless principles and undergraduate engineering mathematics is helpful.

RESOURCE PERSONS



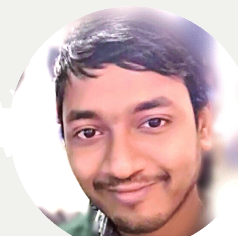
Weather Forecasting

Dr. S. Balachandran, Director
Regional Meteorological Centre,
Indian Meteorological Department, Chennai



Advances In Satellite Communications & Navigation technologies in India

Dr. P. K. Jain, Associate Director
SatCom Planning & Policy Implementation
SATCOM-PO, ISRO, Bangalore



Open Source Tools for Positioning

Mr. Vignesh Murugesan,
Research Associate, School of Planning,
University of Waterloo, Canada



Positioning and Navigation Using IMU's

Mr. Karthick Nanmaran,
Assistant Professor, Department of CSE,
SRM IST, Chennai

Payment Details

Bank : Indian Bank
Branch : SRM University
Acc. Name : COMPUTER SCIENCE ENG & ASSO
Acc. No : 459777790
IFSC Code : IDIB000S181

Registration Fee

Industrial Personnel Rs. 2000
Faculty Rs. 1000
Research Scholars, Students Rs. 1000

The registration fee includes the Workshop Kit, Lunch and Refreshments. The number of seats is limited and the participants will be chosen on first-come-first-serve basis.

After registration fee payment, fill the registration form in the given link

<https://tinyurl.com/apnc2018>

Last date for registration is 14-August-2018

Accommodation

Boarding / Lodging facilities will be provided for outstation participants on additional payment of Rs.1000. The payments includes accommodation for both days with Breakfast & Dinner. No TA/DA will be given.

Organizing Committee

Mrs. T. Manoranjitham, Asst. Prof
Mrs. K.R. Jansi, Asst. Prof
Mr. V. Deeban Chakravarthy, Asst. Prof
Mrs. R. Jeya, Asst. Prof
Mr. C. Rajesh Babu, Asst. Prof
Mr. Karthick Nanmaran, Asst. Prof
Mrs. M.Revathi, Asst. Prof
Mr. B. Manickavasagam, Research Scholar
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