

Registration Form

Full Name:

(Please fill in block Letters)

Gender: M / F

Designation:

Qualification:

Organization/Institute details:.....

.....

.....

City/Town:

Mobile No.:

Email:

Do you need Accommodation?

(Yes/No):

Type of accommodation: (Please Tick)

C-DAC Hostel

Hotel

Registration Details

Type of Participant:(Please Tick)

Student/Research Faculty Member

Industry delegate

Amount:

DD/UTR No.:

Date:

Bank:

Payable at :

Date: Signature of Applicant

Postal Address

Dr. Mandeep Singh (Convener)

Electronics & Embedded Computing Division
Centre for Development of Advanced Computing (C-DAC)
A-34 Phase VIII, Industrial Area,
Mohali-160071 (India)

Note

Post DD with duly filled registration form at given postal address by Date: 9/11/18

Co-Sponsor



Registration Fee

Category of participants	Fees	On-Spot
• Student/Research	500	750
• Faculty Member	1000	1250
• Industrial delegates	1500	2000

Payment Details

DD in favor of "CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, MOHALI" payable at Mohali

OR

Make Online Payment by NEFT/RTGS on:

Bank Name : ICICI Bank (Saving Account)
Bank Address: Phase-7, Industrial Area, Mohali
Account Number : 342101000212
IFSC Code : ICIC0003421
Branch Code: 003421
MICR Code: 160229041

Send scanned copy of Payment Proof & Registration form by Email

eecd.cdacmohali@gmail.com

Online Registration

<https://goo.gl/forms/l8lg5zhQ0uHLIA0x1>

Contact Us

Dr. Mandeep Singh (Convener)

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For Queries

Phone: +91-9417483045, +91-7973057001

Organized by

Electronics & Embedded Computing Division
Centre for Development of Advanced Computing (C-DAC)
A-34 Phase VIII, Industrial Area,
Mohali-160071 (India)



SERB-DST Sponsored

2 DAYS WORKSHOP
on

5G

THE NEXT GENERATION
WIRELESS TECHNOLOGY



14-15 NOVEMBER, 2018

www.cdac.in



प्रगत संगणन विकास केंद्र
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, MOHALI
A Scientific Society under the Ministry of Electronics and Information Technology (MeitY), Govt. of India

Significance & Objectives of the Workshop

Increasing Internet data traffic has driven intensive research toward 5th generation wireless communication technology. As per the industry predictions, India will be 5G enabled by 2020 which will further improve the digital delivery of services under Digital India Mission. It is highly expected that 5G technology will completely revolutionize application areas like healthcare, education, entertainment, agriculture and manufacturing etc. 5G will be important key element in improving high throughput, high reliability, low latency, increased scalability and energy efficiency. 50 billion wireless devices would be connected to the global IP network through 5G in upcoming years. During last two decades, the world has witnessed rapid evolution of cellular communication technologies from the Global System for Mobile (GSM) to the 4G Long Term Evolution-Advanced (LTE-A) system. This advancement in mobile communication industry consists of generations from 1G to 4G and is still progressing. Each generation have some standards, capacities, techniques and new features which differentiate it from previous generations. Due to these new features, the number of mobile phone subscribers is increasing day by day. The main motivation is the need of more bandwidth and lower latency. While throughput is the actual data transfer rate, latency depends largely on the processing speed of each node data. Together with throughput-related performance enhancements, some allied parameters, such as jitter, inter channel interference, connectivity, scalability, energy-efficiency, and compatibility with legacy networks, are also taken into consideration when developing new mobile technology.

This workshop aim to bring together leading researchers in both academia and industry, and to provide a forum for researchers to share their views on 5G and to have an open dialogue on the future of wireless research. This workshop will be a venue to brainstorm on and to identify the emerging concepts, technologies, and analytical tools for 5G networks. The goal is to identify the key 5G technologies that can deliver significant capacity, coverage, user-experience benefits, and can integrate well with the vertical industries.

Thrust Areas

The following thrust areas will be focused:

- Introduction to 5G
- Smart Antennas for 5G communications
- Introduction to OFDM, MIMO, MU-MIMO and Massive-MIMO technologies
- GFDM, Spatial modulation, NOMA etc. for 5G
- Cognitive radio in 5G
- 5G Applications in wearable devices with artificial intelligence (AI), IoT, D2D Communications, and smart city
- Role of optical wireless communications in 5G
- Research issues and challenges in 5G

Resource Persons

- Faculty from IIT Patna, IIT Roorkee, IIT Ropar, ICFAI University Dehradun, NITTTR Chandigarh
- Engineers from Qualcomm, Agmatel and other R&D Centres.

Participants

The course is planned for Faculty members/ research scholars/Ph.D/M.Tech./B.Tech./professionals from industries.

Accommodation

Accommodation for pre-registered delegates/ participants can be arranged in CDAC hostels/ nearby hostels on request. The participants should clearly indicate their requirement in registration form.

Schedule

Day 1 (November 14, Wednesday)

8:30 - 9:00 Registration	Reception
9:00 - 9:30 Inaugural Program	Auditorium
9:30 - 11:00 Keynote Speaker	Auditorium
11:00 - 11:30 High Tea	Cafeteria
11:30 - 13:00 Expert Lecture	Auditorium
13:00 - 14:00 Lunch Break	Cafeteria
14:00 - 15:30 Expert Lecture	Auditorium
15:30 - 16:00 High Tea	Cafeteria
16:00 - 18:00 Expert Lecture/ Tool Demo	Auditorium

Day 2 (November 15, Thursday)

09:30 - 11:00 Expert Lecture	Auditorium
11:00 - 11:30 High Tea	Cafeteria
11:30 - 13:00 Expert Lecture	Auditorium
13:00 - 14:00 Lunch Break	Cafeteria
14:00 - 15:30 Keynote Speaker	Auditorium
15:30 - 16:30 Valedictory	Auditorium
16:30 - 17:00 High Tea	Cafeteria