

REGISTRATION FORM

**2 Days Seminar
on**

**" New Frontiers in Cloud and Fog Computing
for Big Data and Internet-of-Things (IoT)
Applications"**

(Dec. 31, 2018 and Jan. 1, 2019)

Name of Participant-----

Dept :-----

Gender :-----

Designation:-----

Qualification :-----

Organization:-----

Mobile No.-----

Email:-----

Demand Draft No.-----

I agree to abide by the rules and the regulations governing the Workshop.

Place:

Date: *Signature of the Participant*

Mr./Ms./Dr./_____ is a student/employee of our Institution and is permitted to attend the programme.

Signature of the Head of (applicant's) Institution and Seal

Place:

Date:

Address for Communication

**Prof. G. Ram Mohana Reddy/
Prof. K. Chandrasekaran**

Programme Coordinators

**Venue: Dept. of Information Technology
NITK Surathkal
Mangalore- 575025.**

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Contact. Ph. 0824 – 247 3047
0824 - 2473400

**2 Days Seminar
on**

**" New Frontiers in Cloud and Fog
Computing for Big Data and Internet-of-
Things (IoT) Applications"**

(Dec. 31, 2018 and Jan. 1, 2019)



Coordinators

Prof. G. Ram Mohana Reddy
Dept. of Information Technology, NITK

Prof. K. Chandrasekaran
Dept. of Computer Science & Engg., NITK



Organized By

**Department of Information Technology
National Institute of Technology, Karnataka
Surathkal, Mangalore – 575 025**

About NITK Surathkal

NITK Surathkal is a premier institution engaged in imparting quality technological education and a broad range of research, development and consultancy activities. NITK has carved a niche for itself among the best technical institutes in India and is consistently ranked among the top 10 technological institutes.

Department of Information Technology

Department of Information Technology was established in June 2000. The department offers undergraduate course B.Tech. in Information Technology, Post Graduate course M.Tech. in Information Technology, M.Tech. by (Research) and Doctoral Program (Ph.D) Current research activities of the department include Data Mining, Webservices, Distributed Computing, Semantic Web Databases, Software Aging, Virtualization, Soft Computing, Wireless Sensor Networks, Computer Networks, Network Security, Information Security, Internet of Things (IoT).

How to Reach NITK Surathkal

NITK is located in Surathkal on the scenic shores of the Arabian Sea, about 20KM north of the city of Mangalore and is well connected by Air, Rail and Road. The nearest domestic/international airport is situated at Bajpe (about 10KM from Mangalore) and the nearest railway station is Surathkal (3KM). The NITK Campus is situated right on National Highway NH66 with very good bus connectivity from Mangalore, Udupi etc.

About the Program

Computing is being transformed to a model consisting of services that are commoditised and delivered in a manner similar to utilities such as water, electricity, gas, and telephony. Several computing paradigms have promised to deliver this utility computing vision. Cloud computing paradigm has turned this vision of "computing utilities" into a reality. It offers infrastructure, platform, and software (application) as services, which are made available as subscription-based services in a pay-as-you-go model to consumers. Cloud application platforms need to offer (1) APIs and tools for rapid creation of elastic applications and (2) a runtime system for deployment of applications on geographically distributed computing infrastructure in a seamless manner. The Internet of Things (IoT) paradigm enables seamless integration of cyber-and-physical worlds and opening up opportunities for creating new class of applications for domains such as smart cities, Autonomous Cars etc. The emerging Fog computing paradigm extends Cloud computing model to edge resources for latency sensitive IoT applications.

Objective of the Program

This 2 Day expert will cover (a) 21st century vision of computing and identifies various IT paradigms promising to deliver the vision of computing utilities; (b) innovative architecture for creating elastic Clouds integrating edge resources and managed Clouds, (c) Aneka, a Cloud Application Platform, for rapid development of Cloud/Big Data applications and their deployment on private/public Clouds with resource provisioning driven by SLAs, (d) a novel Fog Bus software framework with Blockchain-based data-integrity management for facilitating end-to-end IoT-Fog(Edge)-Cloud integration for execution of sensitive IoT applications, (e) experimental results on deploying Cloud and Big Data/Internet-of-Things (IoT) applications in engineering, and health care, satellite image processing, and smart cities on elastic Clouds; and (f) directions for delivering our 21st century vision along with pathways for future research in Cloud and Fog computing (g) Cloud Assisted Real time Methods for Autonomous cars (h) Resource Provisioning framework and Service Placement Strategies in Cloud fog Environment.

Resource Persons

Experts from Industry, Academia, R & D organizations will deliver expert talks to make participants aware of the cutting edge technologies related to Cloud/Edge/Fog Computing, Internet of Things, Application research challenges. Some confirmed speakers include

Prof. Rajkumar Buyya

(Director of CLOUDS Lab, University of Melbourne, Australia)

Mr. Raghavan Subramanian

(Associate Vice President, Head of Strategy and Innovation, InfosysIT, Infosys, Bangalore)

Dr. Shridhar G Domanal

(University of Surrey, U.K.)

Prof. G. Ram Mohana Reddy

(Professor & Head, IT Dept.)

Prof. K. Chandrasekaran

(Professor, Dept. of CSE)

Eligibility

The programme is open to Faculty and students (B.Tech, M.Tech and Ph.D) of AICTE/UGC approved Engineering and Technology colleges. Number of participants will be limited to 50. Completed applications should reach the Coordinators on or before 27th December 2018.

Registration Fee (Inclusive GST)

Rs. 2000 for Faculty & Rs. 750 for Students

(Demand Draft should be drawn in favor of "Director NITK Surathkal")

Important Dates

Last date for receipt of applications:

27th December 2018

Intimation of selection by email:

28th December 2018

2 Days Seminar on

" New Frontiers in Cloud and Fog Computing for Big Data and Internet-of-Things (IoT) Applications "

Event Schedule:

| | 8:30 to 9.00 | 9.00 to 10:30 | 10-30 to 11.00 | 11.00 to 12:30 | 12:30 to 2.00 | 2.00 to 3:30 | 3:30 to 3:45 | 3:45 to 5:00 |
|-------------------------------|---------------------|---|---------------------------|---|--------------------------|--|-------------------------|--|
| 31-12-2018 Monday | Registration | Session 1: Mr. Raghavan Subramanian, Infosys | Tea Break | Session 2: Dr. K Chandrashekar, NITK | Lunch Break | Session 3: Dr. G Ram Mohana Reddy, NITK | Tea Break | Session 4: Dr. G Ram Mohana Reddy, NITK |
| 01-01-2019 Tuesday | Registration | Session 1: Dr. Raj Kumar Buyya, Univ. of Melbourne | Tea Break | Session 2: Dr. Raj Kumar Buyya, Univ. of Melbourne | Lunch Break | Session 3: Dr. Sridhar G Domanal, Univ. of Sussex, UK | Tea Break | Session 4: Researchers Work |