

# ICETCE 18

## 1<sup>st</sup> International Conference

On

“Emerging Technologies in Computer Engineering”

(ICETCE-2018)

02<sup>nd</sup>-03<sup>rd</sup> February, 2018

Technically Sponsored By

**Computer Society Chapter, IEEE Delhi Section**

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# CONFERENCE REPORT

Organised By:



Department of Computer Science & Engineering (NBA Accredited)  
Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur-302017

Telephone: 0141-5160400 (Ext. 283, 286, 280), Fax: 014-2759555

Website: [www.skit.ac.in](http://www.skit.ac.in)

# ICETCE 18

	<b>AUTHOR/OWNER</b>	<b>REVIEWED BY</b>	<b>APPROVED BY</b>
<b>NAME</b>	Ms. Anjana Sangwan, Ms. Priyanka	Mr. Pankaj Dadheech, Mr. M. K. Beniwal	Prof.(Dr.) C.M. Choudhary, Prof.(Dr.) Anil Chaudhary
<b>DESIGNATION</b>	SECRETARY	COORDINATOR	CONVENER



Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur - 302017



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on

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Telephone: +91-141-5160400, 2752165/67, Ext. 283, 280

Fax: +91-141-2759555 URL: <http://www.icetce.in> E-mail: [icetce2018@skit.ac.in](mailto:icetce2018@skit.ac.in)

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**E-mail: [icetce2018@skit.ac.in](mailto:icetce2018@skit.ac.in), Website: [icetce.in](http://www.icetce.in)**

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# ICETCE 18

## GLIMPSES OF ICETCE-2018



## OVERVIEW OF ICETCE-2018

### 1. Introduction:

First National Conference started in 2011. This conference aims to provide a stage for expert technical exchanges and exhibition regarding the advanced technologies, equipments, techniques, and innovations applied in the field of Computer Engineering.

It has attracted government officials, multinational experts, managers, researchers and technocrats in a relevant field to discuss together their ideas and experiences.

The Organizing Committee of the ICETCE-2018, with its utmost sincerity, intends to invite all the related experts and scholars world wide to attend the Conference and to realize the most extensive exchanges and discussion in this field.

### **Vision**

“To contribute to the Research Community through excellence in scientific and technical research; to serve as a valuable resource, platform for industry and society; and remain a source of pride for researchers.”

### **Mission**

“To advance the state of the art in Computer Engineering and to bring those advances in benefit of Society’s businesses.”

## 2. Pre-Conference National Workshops:

### (i). Infosys Sponsored Deep Dive Faculty Enablement Program (DDFEP) on “Foundation Program 4.1” (18<sup>th</sup>-22<sup>nd</sup> Sept. 2017)

**Date:** 18<sup>th</sup>-22<sup>nd</sup> Sept. 2017 (One Week)

**Venue:** IAI Lab, CSE/IT Department, Vikram Sarabhai Block

**No. of Faculties:** 51 (Pan India Participation)

**Tools Used:** Eclipse, Tomcat Server, Spring Framework

#### **Purpose of Workshop**

To make the faculties learn about Campus Connect Foundation Program in a better way. Faculty Enablement Program introduces to the faculty with Generic courses & faculties aware about Camus Connect teaching methodology. To Prepare faculties to roll out the Foundation Program in Campus Connect Partner Colleges. To build a sustainable partnership with engineering education institutions in India and abroad for mutual benefit, producing “industry ready” recruits. It exposes faculty to the Infosys way of professional training and sharing industry best practices.

The foundation program is aimed at imparting the necessary knowledge and skills to a fresh entrant to take up the challenges of a project work. It follows a hands-on approach with access to the latest technologies and tools. Campus Connect equips graduates not only in computer science and software engineering, but also helps them apply their learning to practical situations, with special emphasis on teamwork, project management, cross functional networking and effective communication. The foundation program is aimed at imparting the necessary knowledge and skills to a fresh entrant to take up the challenges of a project work and to make students “**industry ready**”.

#### **TRAINERS:**

1. **Mr. Anuj Madhusudan Jajoo**, Technology Lead, Education Training & Assessment, Infosys Ltd.
2. **Ms. Kalpana Balaraman**, Technology Lead, Education Training & Assessment, Infosys Ltd.

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## SCHEDULE

### Deep Dive Faculty Enablement Program (FEP)

#### on Foundation Program 4.1



Date: 18 - 22 Sep 2017

Venue: Swami Keshvanand Institute of Technology, Jaipur

### Inaugural Session

Date	From	To	Duration	Area	Session Mode	Workshop Topic	Venue	Anchor	
Day 1	7:30 AM	8:30 AM	1:00			Breakfast	Mess	Participants	
	8:30 AM	9:00 AM	0:30	Inauguration		Registration, Faculty kit distribution	Inaugural Venue: Sir M. Visweringaraya Block (J.C. Bose Seminar Hall), SKIT, Jaipur	Participants	
	9:00 AM	9:10 AM	0:10		Video	Infosys Movie		Kalpna, Lead, ETA, Infosys	
	9:10 AM	9:20 AM	0:10		Interaction	Welcome and Introduction of Participants		Kalpna Balaraman	
	9:20 AM	9:30 AM	0:10		Lecture	Keynote Address		Chairman / Director / Director (Academic)	
	9:30 AM	9:45 AM	0:15		Lecture	Role of Infosys Campus Connect Program in Industry-Academia Partnership		Anuj Jajoo, Lead, ETA, Infosys	
	9:45 AM	10:05 AM	0:20		Lecture	FP4.1 - The Rationale / Briefing		Kalpna Balaraman	
	10:05 AM	10:30 AM	0:25					Photo Session and Tea Break	Participants
	<b>Module-1: OOP using Python</b>								
	10:30 AM	10:50 AM	0:20	Basic Python	Assessment	Pre-Feedback and Pre-Assessment	Industry Academia Interface Lab	Participants	
	10:50 AM	11:50 AM	1:00		Lecture	Basics - Keywords, Variables, Operators, Collections		Anuj	
	11:50 AM	12:15 PM	0:25		Lecture + Hands-on	Eclipse / Lidlipse, Python Configuration - Hands-On		Anuj	
	12:15 PM	12:30 PM	0:15		Tools	Tools Exposure (Python Tutor)		Anuj	
	12:30 PM	1:30 PM	1:00			Lunch	Mess	Participants	
1:30 PM	2:30 PM	1:00	Basic Python	Lecture + Demo	Control Statements	IAI Lab	Anuj		
2:30 PM	3:15 PM	0:45		Hands-on	Hands-On Assignments		Anuj		
3:15 PM	3:30 PM	0:15			Tea Break		Participants		
3:30 PM	4:30 PM	1:00	Basic Python	Lecture + Hands-on	Functions, Exception Handling and File operations	IAI Lab	Anuj		

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	4:30 PM	4:45 PM	0:15		Lecture	How to generate Hands-On Question Paper for Module 1 & 2/ Project Specification Document for Module 3		Kalpana
	4:45 PM	5:00 PM	0:15		Lecture	Module 3: Project Briefing		Kalpana
	4:45 PM	5:00 PM	0:15		Interaction	Feedback and Reflection of the Day		Participants
	8:30 PM	9:00 PM				Dinner	Mess	Participants
<b>Module-1: OOP using Python</b>								
<b>Date</b>	<b>From</b>	<b>To</b>	<b>Duration</b>	<b>Area</b>	<b>Session Mode</b>	<b>Workshop Topic</b>	<b>Venue</b>	<b>Anchor</b>
Day 2	7:30 AM	8:30 AM	1:00			Breakfast	Mess	Participants
	9:00 AM	10:00 AM	1:00	OOP using Python	Lecture + Demo	Classess and Objects	IAI Lab	Anuj
	10:00 AM	10:45 AM	0:45		Hands-on	Hands-on Assignments		Anuj
	10:45 AM	11:00 AM	0:15			Tea Break		Participants
	11:00 AM	12:00 PM	1:00	OOP using Python	Lecture + Demo	Method Invocation	IAI Lab	Anuj
	12:00 PM	12:45 PM	0:45		Hands-on	Hands-on Assignments		Anuj
	12:45 PM	1:45 PM	1:00			Lunch	Mess	Participants
	1:45 PM	2:45 PM	1:00	OOP using Python	Lecture + Demo	Static, Class and Instance Methods	IAI Lab	Anuj
	2:45 PM	3:30 PM	0:45		Hands-on	Hands-on Assignments		Anuj
	3:30 PM	3:45 PM	0:15			Tea Break		Participants
	3:45 PM	4:30 PM	0:45	OOP using Python	Lecture + Demo	Relationships	IAI Lab	Anuj
	4:30 PM	5:30 PM	1:00		Assessment	Module 1 : OOP using Python - Hands-On Assessment		Participants
	5:30 PM	5:45 PM	0:15		Interaction	Feedback and Reflection of the Day		Participants
8:30 PM	9:00 PM				Dinner	Mess	Participants	
<b>Module-2: RDBMS</b>								
<b>Date</b>	<b>From</b>	<b>To</b>	<b>Duration</b>	<b>Area</b>	<b>Session Mode</b>	<b>Workshop Topic</b>	<b>Venue</b>	<b>Anchor</b>
Day 3	7:30 AM	8:30 AM	1:00			Breakfast	Mess	Participants
	9:00 AM	10:15 AM	1:15	RDBMS	Lecture	Database Design Techniques	IAI Lab	Kalpana
	10:15 AM	10:45 AM	0:30		Hands-on	Hands-on Assignments on Database Design, Normalization		Kalpana
	10:45 AM	11:00 AM	0:15			Tea Break		Participants
	11:00 AM	12:15 PM	1:15	RDBMS	Lecture	SQL - Basics, GROUP BY, HAVING & Constraints	IAI Lab	Kalpana
	12:15 PM	1:00 PM	0:45		Hands-on	Hands-on Assignments		Kalpana
	1:00 PM	2:00 PM	1:00			Lunch	Mess	Participants
	2:00 PM	3:00 PM	1:00	RDBMS	Lecture	SQL: Joins - Cross Join, Inner Join, Outer Join - Left and Right Outer Joins, Self Join	IAI Lab	Kalpana
	3:00 PM	3:45 PM	0:45		Lecture + Hands-on	Hands-on Assignments		Kalpana
	3:45 PM	4:00 PM	0:15			Tea Break		Participants
	4:00 PM	4:45 PM	0:45	RDBMS	Lecture	SQL: Subqueries, EXISTS / NOT EXISTS	IAI Lab	Kalpana



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	4:45 PM	5:45 PM	1:00	RDBMS	Assessment	Module 2 : RDBMS - Hands-On Assessment		Participants
	5:45 PM	6:00 PM	0:15		Interaction	Feedback and Reflection of the Day		Participants
	8:30 PM	9:00 PM				Dinner	Mess	Participants
<b>Module-3: Python - DB Integration</b>								
Date	From	To	Duration	Area	Session Mode	Workshop Topic	Venue	Anchor
Day 4	7:30 AM	8:30 AM	1:00			Breakfast	Mess	Participants
	9:00 AM	10:00 AM	1:00	RDBMS	Lecture	Transactions and Introduction to PL/SQL	IAI Lab	Kalpana
	10:00 AM	10:45 AM	0:45		Hands-on	Assignments on PL/SQL		Kalpana
	10:45 AM	11:00 AM	0:15			Tea Break		Participants
	11:00 AM	12:15 PM	1:15	Python DB	Lecture	Python Database Integration using Oracle	IAI Lab	Kalpana
	12:15 PM	1:00 PM	0:45		Hands-on	Hands-on Assignments		Kalpana
	1:00 PM	2:00 PM	1:00			Lunch	Mess	Participants
	2:00 PM	3:30 PM	1:30	Python DB	Project	Project Implementation (Python - Oracle Integration)	IAI Lab	Participants
	3:30 PM	3:45 PM	0:15			Tea Break		Participants
	3:45 PM	5:15 PM	1:30	Python DB	Project	Project Implementation (Python - Oracle Integration)	IAI Lab	Participants
	5:15 PM	5:30 PM	0:15		Interaction	Feedback and Reflection of the Day		Participants
	8:30 PM	9:00 PM				Dinner	Mess	Participants
<b>Project Presentation, Assessment and Closure</b>								
Date	From	To	Duration	Area	Session Mode	Workshop Topic	Venue	Anchor
Day 5	7:30 AM	8:30 AM	1:00			Breakfast	Mess	Participants
	9:00 AM	10:45 AM	1:45		Project	Project Implementation	IAI Lab	Participants
	10:45 AM	11:00 AM	0:15			Tea Break		Participants
	11:00 AM	1:30 PM	2:30		Project	Project Presentations	IAI Lab	Participants
	1:30 PM	2:30 PM	1:00			Lunch	Mess	Participants
	2:30 PM	3:10 PM	0:40	Assessment	Assessment	Online Assessment	IAI Lab	Participants
	3:10 PM	3:30 PM	0:20		Interaction	Post-Feedback		Participants
	3:30 PM	4:00 PM	0:30	Closure	Interaction	Summarizing, Experience sharing and FP4.1 Roll-out plans sharing by the participants.	Valedictory Venue: IAI Lab	Participants
	4:00 PM	4:15 PM	0:15		Lecture	Campus Connect Road Ahead / Inspire Briefing		Kalpana
	4:15 PM	4:25 PM	0:10		Lecture	Valedictory Address		Chief Guest
	4:25 PM	4:40 PM	0:15		Group Activity	Certificate Distribution		Chief Guest
	4:40 PM	4:50 PM	0:10		Lecture	Vote of Thanks		Anuj
4:50 PM	5:15 PM	0:25		Interaction	Facilitation, High Tea and Departure		Participants	

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## Deep Drive Faculty Enablement Program

Infosys | Campus Connect

"Foundation Program 4.1"

18<sup>th</sup>-22<sup>nd</sup> September, 2017

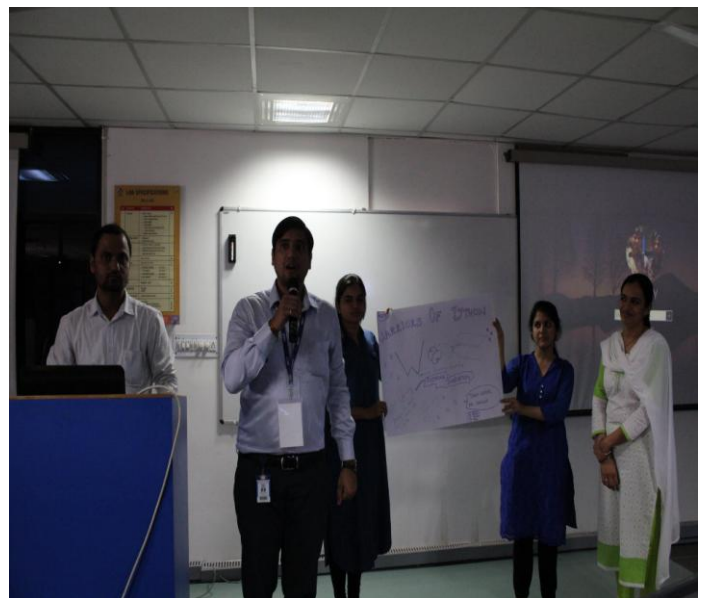


**Department of CSE & IT (NBA Accredited)**

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur  
Telephone: 0141-2752165/67, 5160400, Ext: 286, 283, 280, Fax: 0141-2759555, Website: [www.skit.ac.in](http://www.skit.ac.in)



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(ii). AICTE Sponsored FDP on “Deep Learning in Big Data Analytics” (06<sup>th</sup>-17<sup>th</sup> Nov. 2017)

**Date:** 06<sup>th</sup>-17<sup>th</sup> Nov. 2017 (Two Weeks)

**Venue:** IAI Lab, CSE/IT Department, Vikram Sarabhai Block

**No. of Faculties:** 83 (Pan India Participation)

## **Purpose of Workshop**

To make the faculties learn latest technologies on Deep Learning in Big Data Analytics in a better way. To make faculties acquainted with the latest research in Deep Learning in Big Data Analytics Platform. The next generation of applications must be delivered faster, enhanced ease and be more integrated, intelligent and secure. It follows a hands-on approach with access to the latest technologies and tools.

## **TRAINERS:**

1. **Dr. Anush Sankaran (IBM), Research Scientist, Cognitive Systems India Research Laboratory, Bangalore, India.**
2. **Mr. Sumit Bhalla, Data Scientist, IBM Digital Business Group, New Delhi.**
3. **Dr. Emmanuel Pilli, Assistant Professor, Malaviya National Institute of Technology, Jaipur.**
4. **Mr. Ashutoshh Singh, Opensource Technical Associate, Freelancer, DevOps Engineer.**
5. **Prof. R. K. Agarwal, Professor, Jawaharlal Nehru University, Delhi.**
6. **Dr. Sakthi Balan Muthiah PhD (IIT Madras) (Formerly with UWO, Canada and Infosys, Bangalore),  
Dean Faculty Affairs and Associate Professor, Department of Computer Science and Engineering, LNMIIT, Jaipur.**
7. **Prof. Rushikesh K. Joshi, Professor, Department of Computer Science & Engineering, Indian Institute of Technology Bombay.**
8. **Dr. Yogesh Meena, Assistant Professor, Malaviya National Institute of Technology, Jaipur.**
9. **Prof. Niladri Chatterjee , Professor, Indian Institute of Technology (IIT), Delhi.**
10. **Mr. Bharatkumar Sharma, Senior Solutions Architect, Nvidia, Bangalore.**
11. **Mr. Pankaj Jain, Technology Lead at Infosys Ltd.**
12. **Mr. Swapnil Sharma, Technology Lead at Infosys Ltd.**
13. **Shubham Jain, Technology Lead at Infosys Ltd.**

# ICETCE 18



**AICTE Sponsored Faculty Development Programme**

**“Deep Learning in Big Data Analytics”**

**06<sup>th</sup> - 17<sup>th</sup> November, 2017**



**Department of Computer Science & Engineering (NBA Accredited)**

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur

Telephone: 0141-2752165/67 516400, Ext. 286, 283, 280, Fax: 0141-2759555, Website: [www.skit.ac.in/fdpce2017](http://www.skit.ac.in/fdpce2017)



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(iii) Two Days Infosys Sponsored National Workshop on “Web Applications and Security”  
(29<sup>th</sup>-30<sup>th</sup> Jan. 2018)

**Venue:** Sir M. Visvervaraya Block (J.C. Bose Seminar Hall), SKIT, Jaipur

## **Purpose of Workshop**

To make student learn new technologies going in Web Development and Security.To make students acquainted with the latest research in Web Applications, Information Security & Application Security.

**TECHNOLOGY:** Spring Framework, Network Security, Cryptography, Digitally Signed Documents.

## **TRAINERS:**

1. Mr. Kulvaibhav Kaushik, Technology Lead, Infosys Limited
2. Ms. Ranu Sharma, Sr. Systems Engineer, Infosys Limited

**Student Participants:** 84 (CS/IT, 6<sup>th</sup> Semester)

**Faculty Participants:** 5

**Faculty Participants from SKIT:** Mrs. Anjana Sangwan, Mr. M.K.Beniwal, Mr. Pankaj Dadheech, Ms. Kajal Mathur, Mr. Naveen Jain.

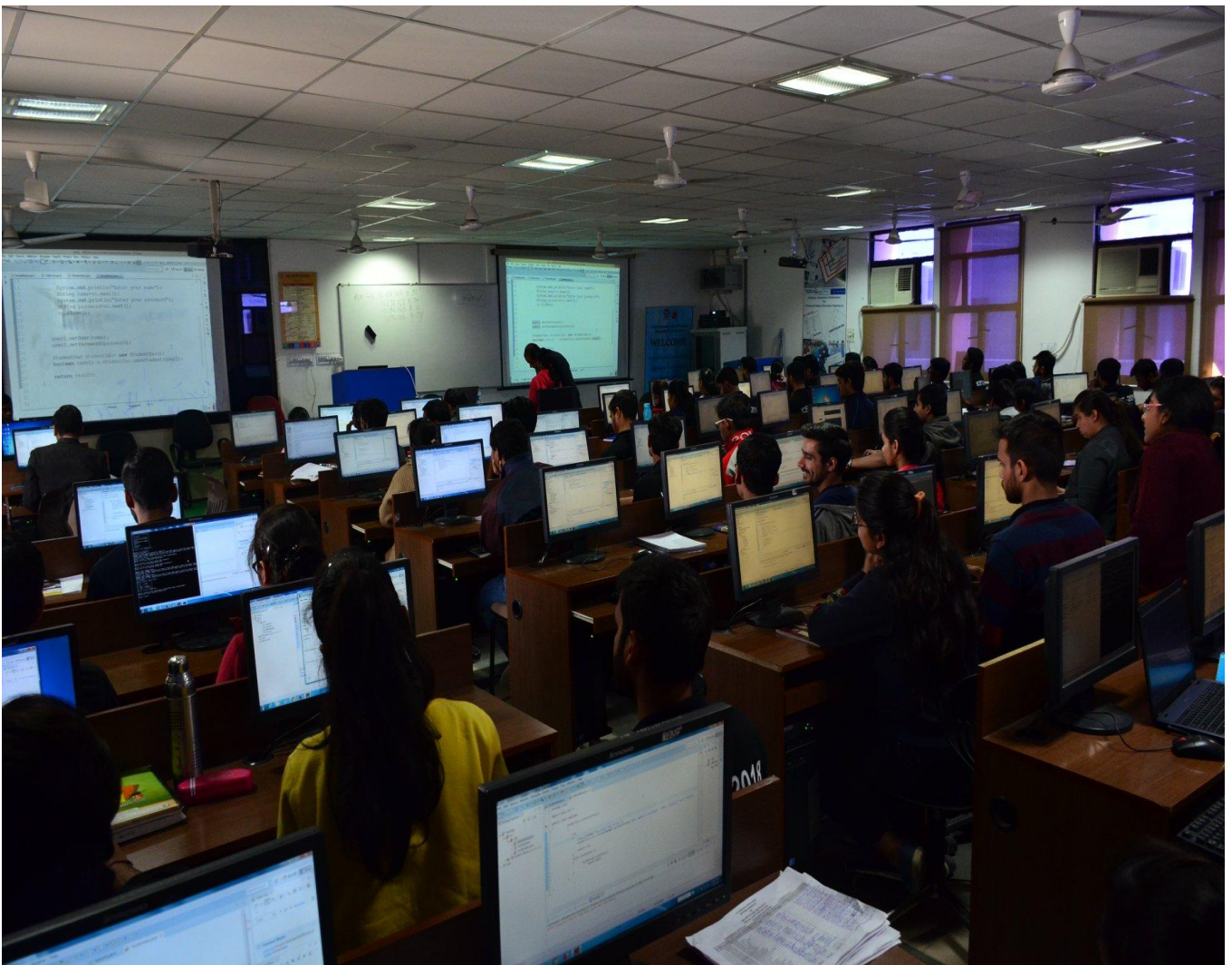
**Tools used:** Eclipse Mars, My SQL, Java 1.6, Apache Tomcat Server 8, Spring Framework

**Venue:** Industry Academia Interface Lab (IAI Lab), SKIT, Jaipur



# ICETCE 18

## Hands On Session:



# ICETCE 18

## WORKSHOP SCHEDULE



Web Applications and Security						
Pre Conference (ICETCE-2018) National Workshop, SKIT Jaipur						
29 <sup>th</sup> - 30 <sup>th</sup> January 2018						
From	To	Duration	Theme	Workshop Topic	Mode	Anchor
<b>Day 1 - 29<sup>th</sup> January 2018</b>						
9:00 AM	10:00 AM	1:00	Inaugural	Registration	Lecture	SKIT Team
				Inaugural Address		
				Objectives and overview of workshop		
10:00 AM	10:15 AM	0:15	Break			
10:15 AM	12:00 Noon	1:45	Information Security	Introduction to Web applications	Lecture	Infosys Team
				Information security		
				Cryptography		
				Network Security		
				Application Security		
12:00 Noon	1:00 PM	1:00	Lunch Break			
1:00 PM	3:00 PM	2:00	Application Security	Secure Coding Practice	Lecture	Infosys Team
				Coding Principles		Infosys Team
				Web attacks and prevention methods		
<b>Day 2 - 30<sup>th</sup> January 2018</b>						
9:00 AM	9:10 AM	0:10	Application Security	Context Setting for the day	Lecture	Infosys Team
9:10 AM	10:45 AM	1:35		Web attacks methods		
				Prevention methods		
10:45 AM	11:00 AM	0:15	Break			
11:00 AM	12:00 Noon	1:00	Project	Installation and setup	Practical	Infosys Team
				Assignment and Project		
12:00 Noon	1:00 PM	1:00	Lunch Break			
1:00 PM	2:30 PM	1:30	Project	Assignment and Project	Practical	Infosys Team
2:30 PM	3:00 PM	0:30	Feedback and Closure	Closure, Feedback and Felicitation		SKIT/ Infosys Team



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- **Workshop's Outcomes (R&D, Placement)**

The workshop had a lot of knowledge of recent trends in Java those are very important for the students of pre final year. This workshop will definitely help the students in their recruitment as well as in academics.

- **Road Ahead**

The workshop will help students in future for their minor and major projects of the 7<sup>th</sup> & 8<sup>th</sup> semester students. We are expecting these knowledgeable workshops in future also.



**Classroom Session**



**Inaugural Address**



**Certificate Distribution**

# ICETCE 18

## (iv) IEEE Sponsored National Workshop on “ IT/Software Project Management and IEEE Standards in the Current Emerging/Future Technologies” (01<sup>st</sup> Feb. 2018)

Venue: Sir M. Visvervaraya Block (J.C. Bose Seminar Hall), SKIT, Jaipur

### Purpose of Workshop

To make student learn new technologies going in Information Technology Sector, Software Project Management and IEEE Standards. To make students acquainted with the latest research in the Current Emerging Technologies.

No. of students: 350 (6<sup>th</sup> Sem.)

No. of faculty members : 27



### Topics Covered in the Workshop:

1. Building IT/Software Projects-Build to Last to Built to Change-Emerging Challenges from Project Management to Project Governance.
2. Skills and Experiences in Designing Large Educational IT Projects.
3. IEEE Standards in Emerging Technologies such as IOT etc.
4. Role of standards in IT Project Governance.

### Prof. (Dr.) K. Subramanian in his presentation discussed on following points in detail:

- Architecting/ Building IT/ Software Projects.
- Organizations & ICT.
- Major Issues & Challenges in Large eGov Projects.
- Changing Role: Project Management in IS/IT in Enterprises.
- Success & Failure Analysis: Multi sector- Multi location- Multi stakeholders Projects Lessons Learned.
- Four Mantras of Good Project Governance.
- Effective Information Assurance Practices.

# ICETCE 18



Pre Conference (ICETCE-2018)  
National Workshop



on  
“IT/Software Project Management and IEEE Standards in the Current Emerging/Future  
Technologies”

**01<sup>st</sup> February, 2018 (Thursday)**

**Sponsored By**

**Computer Society Chapter, IEEE Delhi Section**



## **SCHEDULE**

Time	Agenda	Speaker
8.00 AM - 9.00 AM	<b>Registration</b>	
9.00 AM - 10.00 AM	<b>Inaugural Function and Motivational Talks</b>	
10.00 AM – 12:00 AM	<b>Session I</b> - Building IT/Software Projects-Build to Last to Built to Change-Emerging Challenges from Project Management to Project Governance.	<b>Prof. (Dr.) K. Subramanian</b> , Chair, Delhi IEEE Section
12.00 AM - 01.30 PM	<b>Session II</b> - Skills and Experiences in Designing Large Educational IT Projects.	<b>Dr. A. Murali M. Rao</b> , Director CC, IGNOU and Past Chair, IEEE CS, IEEE Delhi section
01.30 PM - 02.15 PM	Lunch	
02.15 PM - 04.15 PM	<b>Session III</b> - IEEE Standards in Emerging Technologies such as IOT etc.	<b>Sri Chandra</b> , IEEE Director standards, IEEE Bangalore office
04.15 PM - 04.30 PM	Break – Snacks	
04.30 PM - 05.30 PM	<b>Session IV</b> - Role of standards in IT Project Governance.	<b>Prof. S.S. Tyagi</b> , Chairman, IEEE CS, Delhi section & HOD,CS, Manav Rachna International University, Faridabad
5.30 PM - 06.00 PM	Vote of Thanks Feedback and Certificates	<b>Prof. (Dr.) Anil Chaudhury</b> <b>HOD-IT, SKIT</b>

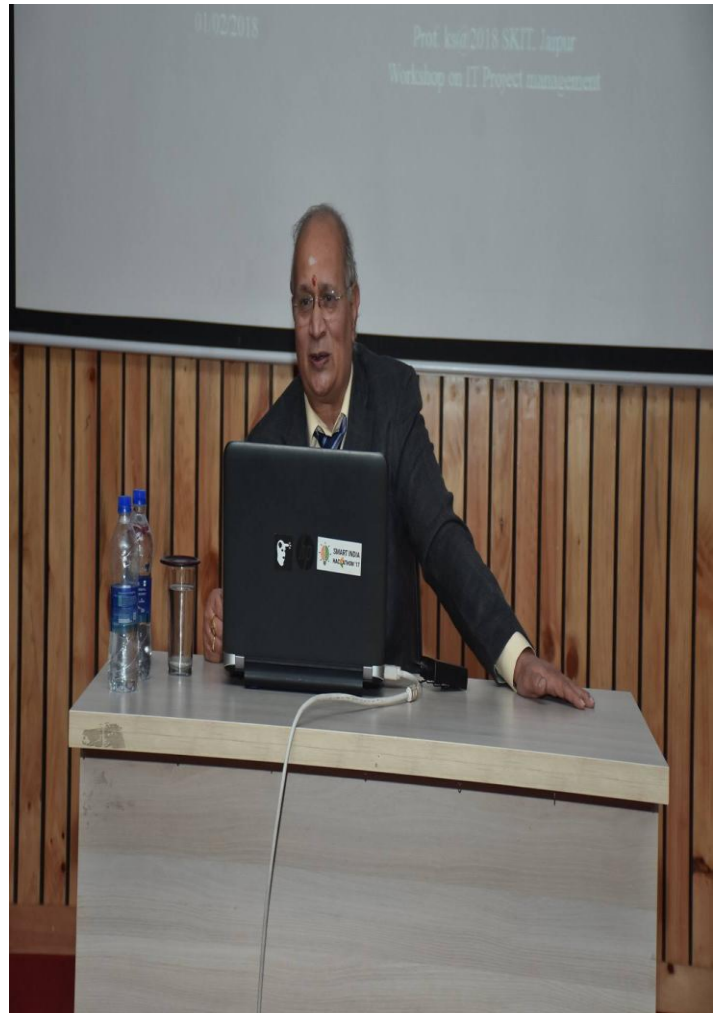
**Sri Chandra (IEEE Director standards, IEEE Bangalore office) in his presentation discussed on following points in detail:**

- IEEE Standards in Emerging Technologies.
- IEEE IoT Initiative.
- IEEE Blended Learning Program.

**Prof. (Dr.) S. S. Tyagi in his presentation discussed on following points in detail:**

- Traditional Network & need to change.
- SDN & Expectations.
- OpenFlow & Research Directions.
- Software-Defined Network with key Abstractions.
- Methodology: Software & Tools Details (Simulators).

# ICETCE 18



# ICETCE 18

## INTERNATIONAL CONFERENCE

### 3. Two Days International Conference on “Emerging Technologies in Computer Engineering” ICETCE-2018 (02<sup>nd</sup>-03<sup>rd</sup> Feb. 2018)

#### INAUGURAL CEREMONY



**CHIEF GUEST** – Shri Shailendra Sharma, Additional Commissioner, Income-Tax Department.

**INVITEES**– Prof. Seeram Ramakrishna (Vice President, Research Strategy, NUS, Singapore), Prof. (Dr.) Arun K. Somani (Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA), Mr. Ripudaman (Managing Director, Natural Group), Mr. Shiv Prakash Ojha, Senior Architect from Infosys Ltd.), Prof. K. Subramanian (Chair, IEEE Delhi Section), Dr. A. Murali M. Rao (Past Chair, IEEE CS, Delhi Section), Mr. Lawrence Mohanraj (IBM Developer Ecosystem Group, IBM India Pvt. Ltd, Chennai), Dr. Sumit Srivastava (Senior Member, IEEE Delhi Section & Professor (CSE), Manipal University), Dr. Arvind Kumar Sharma (Assistant Professor, University of Kota, Rajasthan), Dr. Lalit Singh (Scientist, NPCIL, Department of Atomic Energy, Govt. of India), Dr. Ramesh C. Poonia (Associate Professor (CS), AIIT, Amity University, Rajasthan), Dr. Linesh Raja, Assistant Professor, AIIT, Amity University, Rajasthan.

# ICETCE 18

## ICETCE-2018 PROCEEDINGS UNVEILED



# ICETCE 18

## INAUGURATION

The inaugural ceremony on the first day of the 1st International Conference on Emerging Technologies In Computer Engineering began with all the zeal and zest. The ceremony unveiled with the lighting of the divine lamp by the dignitaries.

The Keynote Address by the Chief Guest of the program, Shri Shailendra Sharma (Additional Commissioner, Income-Tax Department). The Guest of Honour Prof. (Dr.) Arun K. Somani (Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA) & Guest of Honour Prof. Seeram Ramakrishna (Vice President, Research Strategy, NUS, Singapore) addressed the audience with his blessing words.

Mr. Ripudaman (Director, Natural Group) gave an introductory speech briefing about the themes of the two day conference. This was followed by the inspiring and motivational words by Prof. (Dr.) K. Subramanian (Chair, IEEE Delhi Section) and also motivated the students.

The Motivational Talk given by Guest of Honour Mr. Shiv Prakash Ojha, Senior Architect from Infosys Ltd.) and by Guest of Honour Mr. Lawrence Mohanraj (IBM Developer Ecosystem Group, IBM India Pvt. Ltd, Chennai).

The chairman of SKIT, Shri Surja Ram Meel, Shri Jaipal Meel (Director, SKIT), Prof. (Dr.) Ramesh Pachar (Principal, SKIT), Prof. M. L. Bhargava (Advisor, SKIT) also plugged in the audience with enthusiasm. The inaugural session ended with the vote of thanks by Prof. (Dr.) S. K. Calla (Director D&W, SKIT).

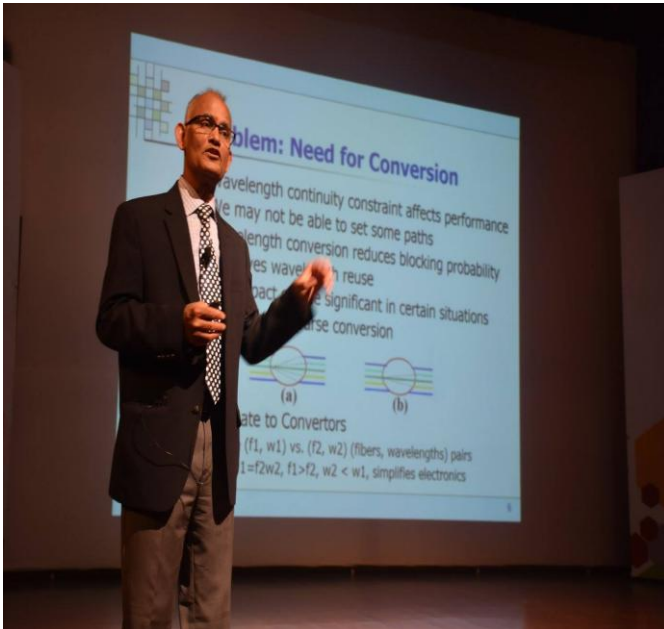


## Plenary Talks

Plenary Talk-I on “**Simple Problems Complex Solutions in Networking and Computing**” by an Expert- **Prof. (Dr.) Arun K. Somani**, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.

Plenary Talk-II on “**IoT, Big Data, AI, Materials Informatics and Circular Economy**” by an Expert- **Prof. Seeram Ramakrishna**, Vice President, Research Strategy, NUS, Singapore.

Key-Note Address on “**Our Cognitive Future**” (**How Cognitive & Cloud Computing are transforming our lives**)” given by Guest of Honour Mr. Lawrence Mohanraj (IBM Developer Ecosystem Group, IBM India Pvt. Ltd, Chennai).



**Prof. (Dr.) Arun K. Somani in his presentation discussed on following points in detail:**

- Optical Networking.
- Simple looking problems can be complicated.
- Efficient solution methodologies needed.
- Simple is better.
- Sometime complex solutions are must.
- Discussed about overall Simple Problems Complex Solutions in Networking and Computing.



**Prof. Seeram Ramakrishna in his presentation discussed on following points in detail:**

- The Internet of Things, IoT Remote monitoring of floating solar farms.
- Physical space and cyberspace will be seamlessly connected via integration of emerging technologies such as artificial intelligence, machine learning, Big Data, and augmented reality into every aspect of life.
- Deep learning enabled Big data analytics
- IoT and AI enabled operations
- Circular economy, IoT and AI
- Applying machine learning algorithm to IoT

- 11 Paper presentation were there in this Track of Technical Session.



## Track-1

### “Web Applications and Network Security”

Invited Talk on “Network Security and Web Applications” by Chairperson Prof. K. Subramanian - Chair, IEEE Delhi Section.



#### **Prof. (Dr.) K. Subramanian in his presentation discussed on following points in detail:**

- As the Internet has evolved over the years, it has become an integral part of virtually every aspect in the business process cycle.
- The traditional approach to network security aims to protect resources such as servers, workstations, printers, internal databases, and other network resources.
- Architecting/ Building IT/ Software Projects.
- Organizations & ICT.
- Major Issues & Challenges in Large eGov Projects.
- Changing Role: Project Management in IS/IT in Enterprises.
- Four Mantras of Good Project Governance.
- Effective Information Assurance Practices.
- A combination of technology, innovation, leadership and inspired workforce-Ingredients for

- 15 Paper presentation were there in this Track of Technical Session.

## Track-2

### “Product Development”

Invited Talk on “IT Project Design, Development & Management” by Chairperson **Dr. A. Murali M. Rao**—Past Chair, IEEE CS, Delhi Section.

Video Session on "Software Reliability Models for Safety Critical Systems" by Chairperson **Dr. Lalit Singh**, Scientist, NPCIL, Department of Atomic Energy, Govt. of India.



**Dr. A. Murali M. Rao** gave his presentation on IT Project Design, Development & Management.

His main discussion points were:

- Project Management , Project Characteristics, Project Attributes, Project Manager & Functions of Project Manager.
- The Project Management Body of Knowledge (PMBOK), IT Project Knowledge Areas.
- Factors Ranking for Successful, Challenged, and Impaired Projects.
- Systems view of Project Management.
- Product Life Cycle/ Systems Development Life Cycle (SDLC), IT Project Methodology.
- Project Scope Management, Time Management & Cost Management.
- Project Quality Management, Human Resource Management, Communication Management.
- The importance of Project Risk Management.

- 12 Papers were presented in this Track of Technical Session.

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## Track-3

### “Artificial Intelligence, Fuzzy Logic & Genetic Algorithms”

Invited Talk on “Context Aware Computing Using Machine Learning Techniques” by Chairperson **Dr. Sumit Srivastava**, Senior Member, IEEE Delhi Section & Professor, Department of Computer Science & Engineering, Manipal University.



**Dr. Sumit Srivastava** gave his presentation on Artificial Intelligence, Fuzzy Logic & Genetic Algorithms

His main discussion points were:

- Application oriented model for fuzzy patterns as individual domain.
- The random models for the fuzzy perceptron's can be defined and modified for the multiple layer models.
- Similarity measure for mass estimation can also be studied for the fuzzy patterns defined.



- 17 Papers were presented in this Track of Technical Session.

## Track-4

### “Mobile & Pervasive Computing”

Invited Talk on “**Machine Learning Techniques for Sentiment Analysis Using Weka Tool**” by Chairperson **Dr. Arvind Kumar Sharma**, Assistant Professor, University of Kota, Rajasthan.

Invited Talk on “**Deep learning for Intelligent Systems**” by Chairperson **Dr. Ramesh C. Poonia**, Associate Professor (CS), AIIT, Amity University, Rajasthan.



**Dr. Arvind Kumar Sharma** gave his presentation on Machine Learning Techniques for Sentiment Analysis Using Weka Tool.

His main discussion points were:

- Sentiment Analysis is a New Dimension of Computer Science that is used to predict analysis like Positive, Negative or Neutral.
- The Machine Learning Techniques have been used to investigate the polarity of any product, person, organization etc. by using Weka Tool.
- To find out the Performance Metrics of the Machine Learning Algorithms such as Precision, Recall, F1 measure and Accuracy.



**Dr. Ramesh C. Poonia** gave his presentation on Deep learning for Intelligent Systems.

His main discussion points were:

- **Machine learning** is one of the fastest-growing and most exciting fields out there, and **deep learning** represents its true bleeding edge.
- Deep Learning has enabled many practical applications of Machine Learning and by extension the overall field of AI.

# ICETCE 18

## Wrap Up and Valedictory Session

In the valedictory session key persons, practitioners and chair members shared their experiences of the conference. The certificate given ceremony was also held at the valedictory. **Prof. (Dr.) S. K. Calla, Director (D&W), SKIT & Dr. Arvind Kumar Sharma, Assistant Professor, University of Kota, Rajasthan** have given the Certificates to the Paper Presenters. He also pointed out that the discussions and the deliberation in the conference has shown new light and faith in the strength of partnerships and collaborations for development at a broader level. The two day conference ended with a brief closing speech by **Prof. (Dr.) Anil Chaudhary, HOD-IT & vote of thanks** delivered by **Mr. Panakaj Dadheech, Associate Professor, Department of Computer Science & Engineering.**



# ICETCE 18

## CONFERENCE OUTCOMES

The next generation of research and development must be faster, enhanced, intelligent, integrated and secured. The conference helped the researchers and technocrats to deepen the understanding of Network Security and Forensics, Web Application Development, Cloud & Green Computing, Mobile & Pervasive Computing, Data Mining, Security and many more research areas and upcoming technologies.

Students were also benefited and updated their skills on the latest technologies to understand how next generation computing can contribute to deliver faster and integrated commercial viabilities.



# कम्प्यूटर इंजीनियरिंग पर कॉन्फ्रेंस



जयपुर | एस्केआईटी, जगतपुरा में शुक्रवार को कम्प्यूटर साइंस एंड इंजीनियरिंग विभाग द्वारा इन्फोसिस, कम्प्यूटर सोसायटी चैप्टर व आईईईईई, दिल्ली सेक्शन के सहयोग से दो दिवसीय "इंटरनेशनल कॉन्फ्रेंस ऑन एमर्जिंग टेक्नोलॉजी इन कम्प्यूटर इंजीनियरिंग" - 2018 का आगाज हुआ।

Dainik Bhaskar 03.02.2018

इंटरनेशनल कॉन्फ्रेंस की शुरुआत

## मोबाइल डिवाइस में होगी सुपर कम्प्यूटिंग पावर

जयपुर • टेक्नोलॉजी के ज्यादा इस्तेमाल के साथ ही साइबर सिक्योरिटी की चुनौतियां भी बढ़ गई हैं। बैंक फ्रॉड होने पर लोगों का पैसा फंस जाता है। ऐसे में सरकार को डिजिटल पॉलिसी इंफोड्यूस करनी चाहिए ताकि लोगों को अपनी मेहनत की कमाई का पैसा मिलने में कुछ राहत मिल सके। हालांकि लोगों को भी डिजिटल और नेट बैंकिंग को लेकर सावधानियां रखनी चाहिए। मसलन, छोटे ट्रांजेक्शन के लिए डेबिट, क्रेडिट कार्ड का इस्तेमाल न करे तो इन फ्रॉड्स को रोकने में आसानी होगी। यह कहना है आईईईईई पास्ट चेयर डॉ.ए. मुस्ली राव का। शुक्रवार से एस्केआईटी में सीएस डिपार्टमेंट की ओर से शुरू हुई दो दिवसीय इंटरनेशनल



कॉन्फ्रेंस में शिरकत करने आए राव ने कहा कि आने वाले समय में 'आधार' यूनीक आईडेंटिफिकेशन वर्चुअल आईडी के तौर पर इस्तेमाल होगा। सिंगापुर से आए एक्सपर्ट श्रीराम रामाकृष्ण ने कहा कि आने वाले समय

में सुपर कम्प्यूटिंग पावर मोबाइल जैसे स्मॉल डिवाइस में आ जाएगी। आईईईईई चेयर के सुब्रमण्यम ने ईवीएम टेम्पिंग के सवाल पर कहा कि ऐसा मुश्किल है, लेकिन यह 100 प्रतिशत सुरक्षित हो यह भी जरूरी नहीं है।

Rajasthan Patrika 03.02.2018

## एसकेआईटी में कम्प्यूटर इंजीनियरिंग पर सेमिनार



जयपुर | स्वामी केशवानन्द इंस्टीट्यूट ऑफ़ टैक्नोलॉजी, मैनेजमेंट एवं ग्रामोत्थान, जगतपुरा में इंटरनेशनल कॉन्फ्रेंस ऑन एमर्जिंग टैक्नोलॉजी इन कम्प्यूटर इंजीनियरिंग - 2018 का समापन हुआ। इसे इन्फोसिस, कम्प्यूटर सोसायटी चैप्टर व आईईईईई, दिल्ली के सहयोग से हुआ। प्रो. सी.एम. चौधरी, यूनिवर्सिटी ऑफ़ कोटा के डॉ. अरविंद कुमार शर्मा, वैज्ञानिक डॉ. ललित सिंह, डॉ. एस.के. कल्ला ने संबोधित किया।

## International conference held at SKIT

DNA Correspondent @jaipurdna

Jaipur: The first two days of International conference ICETCE-2018 was organised by CS department of Swami Keshvanand Institute Of Technology, Management & Gramothan, Jaipur (SKIT) in Gyan Mandir Auditorium on the topic "Emerging Technology in Computer Engineering".

Chief guest Shailendra Sharma (Additional Commissioner, Income tax Department), guests of honour prof Dr Arun Kumar Somani (Associate Dean for research, Iowa State University, USA), Lawrence Mohanraj (GM, IBM), Shiv Prakash Ojha (Senior Technology Architect, Infosys), prof Seeram Ramakrishna (Vice President, Research Strategy, NUS, Singapore), institute's chairman Surja Ram Meel, Jaipal Meel (Director), Dr SK Call (Director, D&W), Dr Ramesh Kumar Pachar (Principal), along with others began the



## कम्प्यूटर साइंस में नई रिसर्च पर चर्चा



जयपुर ♦ जगतपुरा स्थित एसकेआईटी में शनिवार को कम्प्यूटर साइंस एंड इंजीनियरिंग विभाग द्वारा इन्फोसिस कम्प्यूटर सोसायटी चैप्टर व आईईईई, दिल्ली सेक्शन के सहयोग से आयोजित दो दिवसीय इंटरनेशनल कॉन्फ्रेंस का समापन हुआ।

कन्वीनर व कम्प्यूटर साइंस के विभागाध्यक्ष प्रोफेसर सी.एम. चौधरी ने बताया कि कॉन्फ्रेंस में कम्प्यूटर विज्ञान में उभरते नए शोध एवं तकनीकों पर कई

शिक्षाविद्, शोधकर्ता एवं इंडस्ट्री एक्सपर्ट्स ने चर्चा की।

दूसरे दिन यूनिवर्सिटी ऑफ कोटा के डॉ. अरविन्द कुमार शर्मा ने मशीन लर्निंग टूल से स्टूडेंट्स को अवगत कराया। साथ ही साइंटिस्ट डॉ. ललित सिंह ने वीडियो कॉन्फ्रेंसिंग के जरिए सॉफ्टवेयर रिलायबिलिटी मॉडल फॉर सेफ्टी क्रिटिकल सिस्टम पर टेक्नीकल में विस्तार से बताया।

## इंटरनेशनल कॉन्फ्रेंस ऑन एमरजिंग टेक्नोलॉजी इन कम्प्यूटर इंजीनियरिंग का आगाज

जयपुर (कासं)। एसकेआईटी. में शुक्रवार को कम्प्यूटर साइंस एंड इंजीनियरिंग विभाग द्वारा इन्फोसिस, कम्प्यूटर सोसायटी चैप्टर व आईईईई, दिल्ली सेक्शन के सहयोग से दो दिवसीय इंटरनेशनल कॉन्फ्रेंस ऑन एमरजिंग टेक्नोलॉजी इन कम्प्यूटर इंजीनियरिंग (आईसीईटीसीई) - 2018 का आगाज हुआ। कॉन्फ्रेंस की शुरुआत चीफ गेस्ट ऐडिशनल कमीशनर, इनकम टैक्स विभाग, राजस्थान शैलन्द्र शर्मा, गेस्ट्स ऑफ ऑनर सीनियर टेक्नोलॉजी आर्किटेक्ट इन्फोसिस शिव प्रकाश, वाइस प्रेसिडेंट, एनयूएस, सिगांपुर प्रो. सिराम रामाकृणा, एसोसिएट डीन लोवा स्टेट यूनिवर्सिटी यूएसए प्रो. अरुण कुमार सोमानी, चेयरपर्सन आईईईई प्रो. के. सुब्रमण्यम, जीएम आईबीएम लॉरेन्स मोहन राज व संस्था के चेयरमैन सुरजाराम मील, डायरेक्टर जयपाल मील, डवलपमेन्ट एण्ड वेलफेयर डायरेक्टर डॉ. एस.के. कल्ला, प्राचार्य डॉ. रमेश कुमार पचार, आईटी विभागाध्यक्ष डॉ. अनिल चौधरी एवं कम्प्यूटर साइंस के विभागाध्यक्ष व कॉन्फ्रेंस के कन्वीनर डॉ. सी.एम. चौधरी ने दीप प्रज्वलित कर की। इस कॉन्फ्रेंस के कन्वीनर व कम्प्यूटर

Rajasthan Patrika 04.02.2018

Samachar Jagat 03-02-2018

### SUMMARY

03

- Pre-Workshops Conducted

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- Track (Parallel Session)

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- Research Paper Deliberation

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- Expert Talks



1st International Conference on  
"Emerging Technologies in Computer Engineering (ICETCE-2018)"  
Technically Sponsored By: Computer Society Chapter IEEE, Delhi Section  
(02nd-03rd February, 2018 )

SN	Name of Participant	Organization Name
1	Mr. Ripudaman Magon	Managing Director, Natural Group
2	Shri Shailendra Sharma	Additional Commissioner, Income-Tax
3	Mr. Shiv Prakash Ojha	Senior Architect from infosys Ltd.
4	Prof. Seeram Ramakrishna	Vice President, Research Strategy, NUS, Singapore
5	Mr. Lawrence Mohanraj	IBM Developer Ecosystem Group, IBM India Pvt. Ltd, Chennai.
6	Prof. (Dr.) Arun K. Somani	Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.
7	Prof. K. Subramanian	Chair, IEEE Delhi Section
8	Dr. A. Murali M. Rao	Past Chair, IEEE CS, Delhi Section
9	Dr. Sumit Srivastava	Senior Member, IEEE Delhi Section & Professor (CSE), Manipal University
10	Dr. Linesh Raja	Assistant Professor, AIIT, Amity University
11	Dr. Arvind Kumar Sharma	Assistant Professor, University of Kota, Rajasthan
12	Dr. Lalit Singh	Scientist, NPCIL, Department of Atomic Energy, Govt. of India
13	Dr. Ramesh C. Poonia	Associate Professor (CS), AIIT, Amity University, Rajasthan
14	Kh. Muhammad Shafi	University of Kashmir, Srinagar, Jammu & Kashmir, India
15	Muzafar Rasool Bhat	Islamic University of Science & Technology, Jammu & Kashmir, India
16	Tariq Ahmad Lone	University of Kashmir, Srinagar, Jammu & Kashmir, India
17	Vivek Gupta	Surendra Group of Institutions, Sri Ganganagar, Rajasthan
18	Prabhdeep Singh	Punjabi University, Patiala
19	Rajbir Kaur	Punjabi University, Patiala
20	Deepak Panwar	Amity University, Rajasthan
21	Pradeep Tomar	Gautam Buddha University, Greater Noida, UP
22	Ajit Kumar	Multani Mal Modi College, Patiala
23	Vishal Goyal	Punjabi University, Patiala
24	Shishpal Jindal	I. K. Gujral Punjab Technical University, Jalandhar, Punjab
25	Jaskarn Singh Bhullar	Malout Institute of Management & Information Technology, Punjab
26	Manoj Gupta	JECRC University, Jaipur
27	Heena Taneja	JECRC University, Jaipur
28	Laxmi Chand	JECRC University, Jaipur
29	Vishnu Goyal	Government Ram Chandra Khaitan Polytechnic College, Jaipur
30	Shikhar Seth	Manipal University Jaipur, Rajasthan
31	Vinod Gill	Amity University, Rajasthan
32	Kanak Modi	Amity University, Rajasthan
33	Yudhveer Singh	Amity University, Rajasthan
34	Shrawan Ram	M.B.M. Engineering College, Jodhpur
35	Shloak Gupta	M.B.M. Engineering College, Jodhpur
36	Priya Kushwaha	Amity University, Rajasthan
37	Preeti Yadav	Amity University, Rajasthan
38	Jagdish Prasad	Amity University, Rajasthan



**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**

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SN	Name of Participant	Organization Name
39	Abdul Khader Jilani Saudagar	Al Immam Muhammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia
40	HabeebVulla Mohammad	Al Immam Muhammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia
41	Vaibhav Bhatnagar	Amity University, Rajasthan
42	Dharm Singh Jat	University of Science & Technology, Windhoek, Namibia
43	Poonam Dhaka	University of Namibia, Windhoek, Namibia
44	Anton Limbo	University of Science & Technology, Windhoek, Namibia
45	Abhishek Kilak	Malviya National Institute of Technology, Jaipur
46	Manish Kalra	Amity University, Rajasthan
47	Dinesh Kumar	Jaipur National University, Jaipur, Rajasthan
48	Navneet Kumar Verma	Jaipur National University, Jaipur, Rajasthan
49	Nupur Singh	Jaipur National University, Jaipur, Rajasthan
50	Ishan Kumar	Jaipur National University, Jaipur, Rajasthan
51	Aishwarya Ashok	Jaipur National University, Jaipur, Rajasthan
52	Puja Munjal	Jagannath University, Jaipur, Rajasthan
53	Meenakshi Narula	Guru Gobind Singh Indraprastha University, New Delhi
54	Sandeep Kumar	Amity University, Rajasthan
55	Hema Banati	University of Delhi, New Delhi, India
56	Øystein Repp	Norwegian University of Science & Technology, Trondheim, Norway
57	Heri Ramampiaro	Norwegian University of Science & Technology, Trondheim, Norway
58	Nitin Gothwal	Swami Keshvanand Institute of Technology, M&G, Jaipur
59	Rahul Dutt Sharma	Swami Keshvanand Institute of Technology, M&G, Jaipur
60	Subham Kumar Gupta	Swami Keshvanand Institute of Technology, M&G, Jaipur
61	Swati Arora	Swami Keshvanand Institute of Technology, M&G, Jaipur
62	Y.C.Sharma	Vivekananda Global University Jaipur
63	Y.K.Vijay	Vivekananda Global University Jaipur
64	Monika Mathur	Swami Keshvanand Institute of Technology, M&G, Jaipur
65	Neelam Kumari	Swami Keshvanand Institute of Technology, M&G, Jaipur
66	Khushboo Nibheriya	Arya Institute of Engineering & Technology, Jaipur, India
67	Prof. Ashok Kumar Kajla	Arya Institute of Engineering & Technology, Jaipur, India
68	Vaishali Sharma	Dept. of Computer Science, Arya Institute of Engg. & Tech., Jaipur, Rajasthan, India
69	Sayar Singh Shekhawat	Dept. of Computer Science, Arya Institute of Engg. & Tech., Jaipur, Rajasthan, India
70	Manish Dubey	Dept. of Computer Science, Arya Institute of Engg. & Tech., Jaipur, Rajasthan, India
71	Kapil Tomar	Department of CSE, AKGEC Ghaziabad
72	Kanika Chaudhary	Newgen Software Technologies Pvt. Ltd
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77	Pankaj Kumar Sharma	Department of Computer Science, Govt Women Engineering College, Ajmer (GWECA), Ajmer Rajasthan, India
78	Popat Khushi J.	Faculty of Technology & Engg, The M S University of Baroda
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85	C.P. Chandran	Associate Professor, Department of Computer Science, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi
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87	Ajay Sharma	SRM University Delhi – NCR, Sonapat, Haryana, India
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92	Gyanesh Singh	Assistant Professor, IMSEC, India
93	Rajeev Sharma	Dept. Computer Science, Vivekananda global university, Jaipur, India
94	Karan Chauhan	Computer Science and Engineering Department, M.B.M Engineering College, J.N.V.U., Jodhpur
95	Shrwan Ram	Computer Science and Engineering Department, M.B.M Engineering College, J.N.V.U., Jodhpur
96	Pardeep Singh Tiwana	Chandigarh Engineering College, Landran, Mohali, Punjab
97	Gurmandeep Kaur	Chandigarh Engineering College, Landran, Mohali, Punjab
98	Astha Gupta	Chandigarh Engineering College, Landran, Mohali, Punjab
99	Nandita Khemnani	Rajasthan Technical University, Kota
100	Sonal Khanna	Rajasthan Technical University, Kota
101	Parvinder Singh	Ph.D. Research Scholar, IIT Jodhpur
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103	Nidhi Vashistha	Anand International College of Engineering, Jaipur, India
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111	Gajanand Sharma	Department of CS/IT, Suresh Gyan Vihar University, Jaipur, Rajasthan, India
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129	Shashank Singh	Department of Computer Science & Technology, Vivekananda Institute of Technology
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131	Mrs. Deepti Tak	Department of Computer Science & Technology, Vivekananda Institute of Technology
132	Shubhi Goyal	Swami Keshvanand Institute of Technology, M&G, Jaipur
133	Shruti Kalra	Dept. of ECE, Jaipur Engineering College & Research Centre, Jaipur, 302022, India
134	Sandeep Vyas	Dept. of ECE, Manipal University, Jaipur, 303007, India
135	Manish Tiwari	Dept. of ECE, Manipal University, Jaipur, 303007, India
136	Ghanshyam Singh	Malaviya National Institute of Technology, Jaipur, 302017, India
137	Ashutosh Gupta	Computer Science Department, J.K Lakshmipat University
138	Ankit Jain	Computer Science Department, J.K Lakshmipat University
139	Abhishek Sharma	Swami Keshvanand Institute of Technology, M&G, Jaipur
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