Overview and details of the sessions of this conference. Please select a date or location to show only sessions at that day or location. Please select a single session for detailed view (with abstracts and downloads if available).

### Session Overview

**Date: Sunday, 03/Feb/2019**

9:30am - WORKSHOP 1A: TRACK 1A: An Open and Improved VISIR System Through PILAR Federation for Electrical/Electronics Remote Experiments
Location: LIBRARY HALL 1
Conducted by: Prof. Manuel Castro & Prof. Felix Garcia-Loro

Location: LIBRARY HALL 1
Conducted by: Prof. Manuel Castro & Prof. Felix Garcia-Loro

11:30am - WORKSHOP 1B: TRACK 1B: Remote Lab: A Platform For Experiential Learning
Location: LIBRARY HALL 2
Conducted by: Dr. K C Narasimhamurthy, Professor, Dept. of Telecomm. Engg., SIT, Tumkur, Karnataka, India

11:15am - WORKSHOP 2B: TRACK 2B: Remote Lab: A Platform For Experiential Learning
Location: LIBRARY HALL 2
Conducted by: Dr. K C Narasimhamurthy, Professor, Dept. of Telecomm. Engg., SIT, Tumkur, Karnataka, India

12:45pm - WORKSHOP 1C: TRACK 1C: How to Create A Remote Experiment
Note: Target people are electronic teachers but may also be of interest to computer specialists.
Location: MCA LAB
Conducted by: Prof. Abdelhalim Benachenhou, Algeria

1:30pm - WORKSHOP 2C: TRACK 2C: How to Create A Remote Experiment
Note: Target people are electronic teachers but may also be of interest to computer specialists.
Location: MCA LAB
Conducted by: Prof. Abdelhalim Benachenhou, Algeria

3:00pm - WORKSHOP 3A: TRACK 3A: Immersive Learning Solutions - AR/VR/MR
Location: LIBRARY HALL 1
Conducted by: 361 Degree Minds

3:15pm - WORKSHOP 3B: TRACK 3B: Advanced Study on Video and Audio Processing, Compression and Transcoding
Location: LIBRARY HALL 2
Conducted by: MaxLiv –Prof. ESSAKI MUTHU

3:15pm - WORKSHOP 3C: TRACK 3C: Developing and deploying analytics for Cyber-physical systems , using MATLAB and Simulink
Location: AUDITORIUM 2
Conducted by: Mr. Amit Doshi, Application Engineer, MathWorks

3:15pm - WORKSHOP 3D: TRACK 3D: Evaluating Online Experimentation
Location: MCA LAB
Conducted by: IGP – International Society for Engineering Pedagogy UISPA-LAETA/INEGI, Faculty of Engineering of University of Porto

**Date: Monday, 04/Feb/2019**

8:00am - Registration Day 1: Conference Registration

9:00am - Plenary: Keynote 1, Keynote 2 , Keynote 3
Location: AUDITORIUM 2

Keynote 1 - Mr. Dominik May
"Remote Experimentation in the light of Engineering Education Research and Practice"

Keynote 2 - Mr. Klaus Hengsbach
PHOENIX Contact GmbH & Co KG
"University Networks and Lab Solutions for Industrial Automation"

Keynote 3 - Prof. Asokan IISc
"Fiber brag grating sensors and their applications"
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
<th>Chair</th>
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<tbody>
<tr>
<td>10:00am</td>
<td>Break: Break</td>
<td>Location: Break Room</td>
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<tr>
<td>10:15am</td>
<td>INAUGURATION: Opening of the Conference</td>
<td>AUDITORIUM 2</td>
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<tr>
<td>11:15am</td>
<td>Break 2: Tea Break 2</td>
<td>Location: Break Room</td>
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<td>11:30am</td>
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<tr>
<td>11:15am</td>
<td>1.0: Industry 4.0(1)</td>
<td>AUDITORIUM 2</td>
<td>Alexander A Kist, University of Southern Queensland</td>
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<tr>
<td>12:30pm</td>
<td>Power Intelligence and Asset Monitoring (PIAM)</td>
<td></td>
<td>Preeti Biradar, Shubham Mohanaratna, Arun Kumar S, Kalyan Ram Bhimavaram, Malati Karuna Sarma, Nitin Sharma, Gautam G Bacher</td>
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<tr>
<td>12:45pm</td>
<td>The Need For A System To Benefit The Implementation Of Digital Twin</td>
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<td>Hariprajad Bhat</td>
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<td>1.30pm</td>
<td>The Virtual Dynamics Remotely</td>
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<td>Srinivas K Badakkipat, Hariprasad Bhat</td>
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<tr>
<td>1:00pm</td>
<td>Design Of Single Patient Care Monitoring System And Robot</td>
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<td>Mamatha M N</td>
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<td>1:15pm</td>
<td>Hybrid Teaching Model to Persuade Different Dimensions of Fielder - Silverman Learning Style Model</td>
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<td>Harresh B, Prathvij Nagaraja, Gururaj Samaga</td>
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<td>1:30pm</td>
<td>Process Parameter Monitoring And Control Using Digital Twin</td>
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<td>I 4.0 (2): Industry 4.0(2)</td>
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<td>1:45pm</td>
<td>MT-Link Integration</td>
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<td>Santosh Kumar S, Santrupdi M Bagali, Kalyan Ram Bhimavaram, Malati Karuna Sarma, Babarash V S P Subramanya Swanop, Namadatha K, Dr. Nitin Sharma</td>
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<tr>
<td>2:00pm</td>
<td>Remote Access and Automation of SONIC Analysis System</td>
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<td>Kalyan Ram Bhimavaram, Raman Ramachandran, Aswani Barik, Nitin Zanvar, Vishwas Agpude, Dhawal Patil, Dr. Gautam G Bacher, Venkata Vivek Gopireddi, Dr. Nitin Sharma</td>
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<tr>
<td>2:15pm</td>
<td>Digital Twin of the Robot Baxter for Learning Practice in Spatial Manipulation Tasks</td>
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<td>Igor Verner, Dan Cuperman, Sergey Gmelan, Alex Polishkov</td>
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<td>2:30pm</td>
<td>Development of Remote Instrumentation and Control for Laboratory Experiments Using Smart Phone Application</td>
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<td>Arun Kumar Nagalado, Pottarasanapu, Jagadeesh Chandra A P</td>
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<td>2:45pm</td>
<td>Interactive Lab for Electronic Circuits</td>
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<td>Nageswara Prasad</td>
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<td>3:00pm</td>
<td>Wave Shaping Circuits in Remote Lab</td>
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<td>Hariprajad Bhat</td>
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<td>3:15pm</td>
<td>Analysis of Filter Circuits in Remote Lab</td>
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<td>Thamayanan K C, Bhuvana T N Chaitra R K, Ragavendra Kashyap T M, SPurthy K N, Narasimhamurthy K C</td>
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<td>3:30pm</td>
<td>Exploration of Common Emitter Amplifier in Remote Lab</td>
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<td>Sridhar C, Sushan Natraj, Vismita T A, Bindu T S, Narasimhamurthy K C Ankit Sharma, Ajiy Shiva</td>
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<td>3:45pm</td>
<td>Remote laboratory for Implementation of Various Applications Using Linear and Digital ICs</td>
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<td>Bindu Sri Dokku, Srividya Modali, Sylama Yarlagadda</td>
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<td>4:00pm</td>
<td>Psychiatry and Pharmacology</td>
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<td>4:15pm</td>
<td>N / AR(2): NETWORKING/ Augmented Reality (2) McPherson, University of Georgia</td>
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<td>decades, University of Georgia</td>
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<td>4:30pm</td>
<td>N(3): NETWORKING (3)</td>
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<td>4:45pm</td>
<td>P&amp;D: POSTER &amp; DEMONSTRATIONS</td>
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<td>5:00pm</td>
<td>SC2: Smart Grid Technology/Smart Cities (2)</td>
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<td>5:15pm</td>
<td>Keynote 6 - Ankur Jain, JIMB</td>
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<td>5:30pm</td>
<td>Keynote 5 - Mr. Sathyanarayana B V</td>
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<td>5:45pm</td>
<td>Keynote 4 - Padma Shri. Prof. B Dattaguru</td>
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<td>6:00pm</td>
<td>Keynote 3 - Prof. Prathvij Nagaraja</td>
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<td>6:15pm</td>
<td>Keynote 2 - Mr. A. S. Chakravarthi</td>
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<td>6:30pm</td>
<td>Keynote 1 - Prof. Dr. Anil Pandit</td>
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<td>6:45pm</td>
<td>Session Chair : Dr.Anil Pandit</td>
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Keynote 4 - Padma Shri. Prof. B Dattaguru
(Formerly) Professor(Rtd.), Indian Institute of Science

"Digital Twin for the Life Estimation of Aerospace Structural Components"

Keynote 5 - Mr. Sathyanarayana B V

"Karantaka Startup Policy 2015-20 Schemes & Benefits"

Keynote 6 - Ankur Jain, JIMB

"Automation and HR"
### 3. Technology Transformation

#### 1. Cyber Security and IT/OT Integration
- **Vishal Karwala**
- **ABB**

#### 2. Model Based Systems Engineering (MBSE) approach for Design of Complex Systems
- **Jacob Kiran**
- **DASSAULT SYSTEMS**

### 4. Networking

#### 1. Industrial IOT
- **Dilipababu R**
- **HONDA**
- **ABB**

### Date: Tuesday, 05/Februrary 2019

#### 8:30am - Registration (Day 2): Registration (Day 2)

#### 9:00am - Plenary 3: Keynote 7, Keynote 8, Keynote 9

**Keynote 7 - Mr. Sourabh Chandra**, ATI Motors
- "Autonomous Vehicles - Challenges and Opportunities"

**Keynote 8 - Mr. Jaganath**, FANUC India
- "Industrial IOT"

**Keynote 9 - Prof. Tharsyvoulos Tsiatsos**
- "Collaborative Virtual Environment for Work and Learning"

### 10:00am - Break 3: Tea Break 3

### 10:45pm - Cultural Program: Cultural Program
- **Location:** AUDITORIUM 2

### 2:00pm - Conference Dinner: Proceeding for the Banquet Dinner
- **Location:** LA MARVELLA

### 7:00pm - Banquet Dinner: Conference Dinner at LA MARVELLA
- **Location:** LA MARVELLA

### 10:00pm - Date: Tuesday, 05/Februrary 2019

#### 8:30am - Registration (Day 2): Registration (Day 2)

#### 9:00am - Plenary 3: Keynote 7, Keynote 8, Keynote 9

**Keynote 7 - Mr. Sourabh Chandra**, ATI Motors
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**Keynote 8 - Mr. Jaganath**, FANUC India
- "Industrial IOT"

**Keynote 9 - Prof. Tharsyvoulos Tsiatsos**
- "Collaborative Virtual Environment for Work and Learning"
12:30pm - Lunch Break: Lunch Break
Location: Multi Purpose Hall

1:30pm - Plenary 4: Keynote 10, Keynote 11
Location: AUDITORIUM 2

Keynote 10 - Mr. Ramachandra Murthy,
Presentation on Alpha Design Technologies

Keynote 11 - Mr. R Vijayalayan,
Mathworks
“Are You Ready for AI? Is AI Ready for You?” – Mathworks

3:00pm - I 4.0 (4): Industry 4.0 (4)
Location: LIBRARY HALL 1
Chair: Valerie Stehling, RWTH Aachen University

Session Chair: Prof. Andreas Dr. Pester
Faculty Co-ordinator - Dr. Rajeshwari Hegde

I 4.0 / DS (1): Industry 4.0 / Data Science (1)
Location: LIBRARY HALL 2
Chair: Valerie Stehling, RWTH Aachen University

Faculty Co-ordinator - Dr. KP Lakshmi

I 4.0 / DS (1): Industry 4.0 / Data Science (1)
Location: LIBRARY HALL 2
Chair: Valerie Stehling, RWTH Aachen University

Faculty Co-ordinator - Dr. KP Lakshmi

Real Time Web Enabled
Smart Energy Monitoring System Using Low Cost IoT Device
Gaurav Jayakumar, Pooya Iranna, Dr.Yamuna Devi CR, Dr. Prashanth CR

Strength Analysis and Prediction of Tree Lifespans using Open Source Software
Veena Hegde, Sourabh TK

A Skill Enhancement Virtual Training Model for Additive Manufacturing Technologies
Arjun C Chandrashake, Sreekanth Vasudev Nagar, Gunuprasad K

Contemporary Barriers Faced by Precision Agriculture, New Paradigms and a Proposal for Future Advance
Alin Costa, Luciana Cristea, Marius Cristian Luculescu, Constantin Sorin Zamfiria

Development of internet of Things Platform and Its Application in Remote Monitoring and Control of Transformer Operation
Venkatasawmy R, Uma Rao K, Meena P

4:00pm - Break2: Tea Break 2
Location: Break Room

4:15pm -
4:30pm - 5:30pm  
**I 4.0 / RL&VI (3): Industry 4.0 / Remote lab & Virtual Instrumentation (3)**  
Location: LIBRARY HALL 1  
Session Chair: Mr. Anil Pandit  
Faculty Co-ordinator: Dr. RS Geetha  

- **IoT Implementation at Public Park to Monitor and Use Energy Efficiently**  
Elangovan Natraj  

- **Overcome the Challenges of Social Message Communication in Digital Age through Games**  
Niket Mehta, Suparna Dutta  

- **Integration of Automation Devices With OPC UA Into An IIoT Platform**  
Bhavikumar Narendrakumar Patel, Prof. Dr.-Ing. Reinhard Langmann  

5:30pm - 6:15pm  
**Conference Closing:** Closing of Conference  
Location: AUDITORIUM 2

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**Date: Wednesday, 06/Feb/2019**

**SOCIAL PROGRAM: CULTURAL TOUR**

- Excursion to Historical Places of Karnataka:
  1. Shravanabelagola
  2. Halebidu
  3. The Chennakeshava Temple, Belur