

International Symposium on Technology And Society October 20-22, Kerala, India Program Schedule

October 20th 2016 - 16:30 Inaugural Session – Mascot Hotel

- 17:00 – Welcome:
- Satish Babu, General Chair ISTAS 2016
- 17:05 – Presidential Address:
- Prof. VK Damodaran, DG, INGCORE, TRV & Hangzhou
- 17:10 – Inauguration:
- **Shri Pinarayi Vijayan**, Hon. Chief Minister, Govt of Kerala
- 17:30 – About ISTAS 2016:
- Amarnath Raja, Chair, Technical Program Committee
- 17:40 – IEEE Awards Distribution:
- Dr. Suresh Nair, IEEE Kerala Section Chair
- 17:50 – Vote of Thanks:
- Sasi PM, General Co-Chair ISTAS 2016
- 18:00 – Keynote Address by Dr. Michael Lightner, IEEE President (2006)
- 18:30 – Close of Inaugural Session

October 21st 2016 – 08:00 Technical Sessions – Udaya Samudra

- 08:00 – Registration
- 09:00 – **Technical Session 1 [Plenary]** – Chair Satish Babu
1. The Digital age and its implications
 - MGPL Narayana, Chief Scientist, TCS, Hyderabad
 2. Disruptive Technology, Traditional Communities and Development
 - V Vivekanandan, FishMARC, Chennai
- 10:10 – *Tea Break*

Track 1 – Invited Talks	Track 2 – Technical Papers
10:30 Community Engagement Workshop	10:30 Humanitarian Technology Papers 1
13:00 Lunch	13:00 Lunch
14:00 Community Engagement Workshop	14:00 Humanitarian Technology Papers 2
15:45 Panel Discussion on Sustainable and Green Technologies	

Evening Session

- 18:00 – Short film on Norbert Weiner (Mathematician and Philosopher)
- 18:30 – Video Presentations:
Finalists of the Kerala SSIT- IEEE Foundation Video Contest
- 19:00 – Conference Dinner

October 22nd 2016 – 09:00 Technical Sessions – Udaya Samudra

- 09:00 – **Technical Session 5 [Plenary]** Session Chair: Amarnath Raja
- Dr. Yoong Choon Chang, Malaysia
 - Dr. Radhakrishna Pillai, IIM Kozhikode

10:10 – *Tea Break*

Track 1 – Invited Talks	Track 2 – Technical Papers
10:30 Joint SSIT Panel (WIE and YP)	10:30 Sustainable Technologies
13:00 Lunch	13:00 Lunch
14:00 Panel Discussion on Disruptive Technologies, Ethics and Global Devept	14:00 Ethics and Professional Responsibility

- 16:00 – Closing Session - Vote of Thanks – Sasi PM

Track 1 – Invited Talks

October 21st 2016 – 08:00 Technical Sessions – Udaya Samudra

- 10:30 – **Technical Session 2** – Community Engagement Workshop
Chair Jayakrishnan MC, Chair IEEE SIGHT Kerala
1. IEEE HAC / SIGHT: Overview
 - Jackie Halliday, Program Coordinator IEEE SIGHT
 2. Affordable Renewable Energy
 - Krishnan Thampi, Avatar Renewables (P) Ltd
 3. Context Awareness – Building Block of Vibrant India
 - Vijayaraghavan V, Infosys Ltd.
 4. Kerala SIGHT activities
 - Vijay S Paul, IEEE Kerala YP

13:00 – *Lunch*

- 14:00 – **Technical Session 3** - Community Engagement Workshop
Chair VK Damodaran, IEEE Life Members Chair R10
1. Community Interface in Science and Technology
 - KK Krishnakumar, Kerala Sastra Sahitya Parishad
 2. e-Yantra: Robot Enabled Retooling of Engineering Education
 - Kavi Arya, FOSSEE, IIT Bombay
 3. Madras SIGHT Activities
 - Vincent Jain, Chair, IEEE Madras SIGHT

15:30 – *Tea Break*

- 15:45 – **Technical Session 4** – Panel Discussion
Sustainable and Green Technologies for Development
Moderator – C Balagopal, Former CEO Terumo Penpol
Panellists:
- Dr. Michael Lightner, IEEE President 2006
 - Amarnath Raja, Chair IEEE HAC 2011-12
 - Gita Gopal, Consultant and ex-World Bank
 - Charles Despins, Green ICT Initiative
 - o Additional Speakers (Remote)

17:30 – Close of Day 1 - Technical Sessions

October 22nd 2016 Technical Sessions Day 2 – Udaya Samudra

- 10:30 – **Technical Session 6** - Joint SSIT Panel (WIE and WP)
Moderator: Sarada Jayakrishnan, GM, Terumo Penpol
Panellists:
- Katina Michael SSIT Australia,
 - Jackie Haliday IEEE SIGHT
 - Vijay S Paul, Kerala Section

13:00 *Lunch*

- 14:00 - **Technical Session 7**: Panel Discussion
Disruptive Technologies, Ethics and Global Development
Moderator & Chair: Dr. Pradeep Kumar Ray
Panellists:
- Greg Adamson, President, IEEE SSIT (Remote)
 - Kelly Hutchinson, SSIT Australia
 - Andy Rearden (Remote)
 - Ramalatha Marimuthu, Chair, Chapter Coordination, IEEE SSIT

Track 2 – Technical Papers

October 21st 2016 – 10:30 Technical Papers Day 1 – Udaya Samudra

10:30 Humanitarian Technology 1

Chair: Senthilkumar K.B, Senior Engineer, CDAC

1. A Model for the Introduction of Ayurvedic and Allopathic Electronic Medical Records in Sri Lanka - Dr. Andrew Stranieri; Dr. Tony R Sahama; Dr. Kerrynt Butler-Henderson; Dr. Kamal Perera
2. Transformative e-Governance and Innovation: Challenges and Impact of Mass Contact Programme of Chief Minister of Kerala 2013-15 - Mr. Gopa Kumar
3. A Framework for Information Access in Rural and Remote Communities - Dr. Sameer Verma; Dr. John Ryan
4. Digital Inclusion for the Differentally-abled Farmers mKRISHI® CCA - A case Study in Dhar, MP - Mr. Dineshkumar Singh; Mr. Aditya Tiwari; Ms. Divya Piplani; Mr. Karthik Srinivasan; Mr. Siddhesh Nar; Mr. Nandan Rajput
5. mKRISHI® Fisheries: A case study on Early Warning System (EWS) for Disaster Communication and Management - Mr. Dineshkumar Singh; Ms. Divya Piplani; Mr. Karthik Srinivasan; Mr. Sujit Shinde
6. Sreesakthi Portal - For Gender Empowerment - Mr. Sibi C Joseph; Mrs. Ananthalakshmi Ammal R; Mr. Nishad A

13:00 *Lunch Break*

14:00 Humanitarian Technology – 2

Chair: Unni Sankar, Senior Manager, Technology Excellence Group, QUEST

1. The Vulnerability Assessment for Emergency Response Plans - Dr. Arni Ariani; Mr. John Lewis; Prof. Pradeep Kumar Ray
2. Facilitating Digital Communication in Seniors - Dr. Jacqueline Blake; Prof. Pradeep Kumar Ray
3. Low Cost Smart Glove for Universal Control of IR Devices - Mr. Muthiah M; Mr. Aswin Natesh
4. Sensor based coaching for a fit and healthy society - Dr. Vijayaraghavan Varadharajan; Mr. Vikas Kannav; Dr. Anjaneyulu Pasala
5. TownshipNet: A localized hybrid TVWS-WiFi and cloud services network - Dr. Senka Hadzic; Mr. Amreesh Phokeer; Dr. David Johnson
6. ICT Enabled tool for Vocational Training and Evaluation of Persons with Mental Retardation - Mr. Johnny KV; Mr. Harish G

16:30 Close of Session

Track 2 – Technical Papers (Contd)

October 22nd 2016 – 10:30 Technical Papers - Day 2 – Udaya Samudra

10:30 Sustainable Technologies –

Chair - Dr. K Bijuna Kunju, Professor, T.K.M.C.E, Kollam, Kerala

Lead Presentation: Rajeev Srinivasan - Adjunct Faculty, IIM Bangalore

1. Intersecting Our Mobilities: Path Dependence from Manually-Operated Semaphore to Self-Driving Vehicles?- Prof. Milos Mladenovic; Prof. Montasir Abbas; Ms. Pascale-L. Blyth; Dr. Iisakki Kosonen
2. Internet of Trains-- A Safer Autonomous Long Distance Transportation - Mr. Balasubramaniam Sugumar
3. Green IT Self-efficacy: A Point to Ponder? - Ms. Parvathi Jayaprakash; Prof. Radhakrishna Pillai
4. Distributed Energy Integration and Transactive Energy Framework for a Developing Economy - Mr. Vinod V Nair; Dr. Usha Nair
5. The Techno-economic Feasibility of Providing Solar Photovoltaic Backup Power For load matching at times of loss of grid supply - Dr. Gobind Pillai; Mr. James Hodgson; Dr. Carlos C. Insaurralde; Dr. Montchai Pinitjitsamut; Ms. S Deepa
6. Smart Technologies for Sustainable Enterprise Resource Management: An Illustration of - Dr. Gopakumar Gopalakrishnan

13:00 *Lunch Break*

14:00 Ethics and Professional Responsibility

Chair – Dr. SM Sameer, Associate Professor, HOD EC, NIT, Kerala

1. Analysis of the Ethical Perception of Engineering Graduates In India:A case study - Mr. Srinjoy Nag Chowdhury; Ms. Saniya Dhawan
2. Human Rights in Smart Cities: A Case Study - Mr. Srinjoy Nag Chowdhury; Ms. Saniya Dhawan
3. Sociology of the Docile Body - Ms. Sharon R. Bradley-Munn; Prof. Katina Michael; Michael George Michael
4. Plagiarism: A Serious Ethical Issue for Indian Students - Critical Study on Impacting Factors -Mr. Kamalakar Pallela; Ms. Sneha Talari
5. Creating a Humanized Internet - Mr. Mark Kovarski; Mr. Akram Alfawakheeri; Mr. Aron Dutta; Ms. Monique Morrow; Mrs. Vivian Shen

16:30 Close of Session