

IEEE GHTC-SAS 2014 Program Schedule

Hotel Udaya Samudra, Trivandrum, Kerala

26-27 September, 2014

Day 1: Friday, 26 September, 2014

9:00 am - 9:30 am	Registration Vizhinjam Hall
Community Engagement Workshop	
9:30 am - 9:45 am	IEEE and SIGHT
9:45 am - 11:00 am	Rapid Keynote Address
11:00 am - 11:15 am	Tea Break
11:30 am - 1:00 pm	Case Studies
1:00 pm - 2:00 pm	Lunch Break
2:00 pm - 3:30 pm	Panel Discussion: Scope of Technological Solutions for Women Issues
3:30 pm - 3:45 pm	Presentation on "Technological Solutions to reduce atrocities against Women - An attempt by Kerala WIE Students
3:45 pm - 4:30 pm	Open Forum
4:30 pm - 5:00 pm	Tea Break
5:00 pm - 7:00 pm	Inaugural Function
7:00 PM	Cultural program & Dinner

Day 2: Saturday, 27 September, 2014

9:00 am - 9:30 am	Registration	
9:30 am - 10:15 am	Keynote address Gopinath Parayil, Institute of Palliative Medicine	
10:15 am - 10:30 am	Tea Break	
Time	Vizhinjam hall	Light House hall
10:30 am - 12:30 pm	Track 2 - Healthcare Technologies	Track 3 - E-Services for the masses & Track 4 - Frugal Innovation
12:30 pm - 1:15 pm	Lunch Break	
1:15 pm - 3:15 pm	Track 1 - Renewable Energy	Track 5 - Emerging technologies for humanitarian applications
3:15 pm - 3:30 pm	Tea Break	
3:30 pm - 5:00 pm	Track 1 - Renewable Energy	Track 5 - Emerging technologies for humanitarian applications
5:00 PM	Valedictory Function	

Community Engagement Workshop		
Hotel Udaya Samudra, Trivandrum, Kerala		26-27 September, 2014
Time	Agenda	Speakers
9:00 - 9:30	Registration	
9.30 - 9.45 am	IEEE and SIGHT	Amarnath Raja, IEEE HAHC
9.45 - 10.00 am	Technology and Kudumbashree	K.B.Valsala Kumari, ED, Kudumbashree
10.00 - 10.15 am	Frugal Innovations in Renewable Energy Technologies	Dr.A.Jagadish, Director, Nayadumma Centre for
10:15-10:30 am	The Jammu & Kashmir Floods and Humanitarian Technology Requirements	Annie George, BEDROC
10:30 - 10:45 am	Collaborative Approach for Total Sanitation Campaign	Shri S.S. Kini, Chief Architect, Sulabh International
10.45 - 11.00 am	The role of Innovation in meeting the Rural Humanitarian Challenge in South Asia	Dr. Jebamalai Vinanchiarachi, Former Principal Adviser to the Director General, UNIDO
11.00 - 11.15 am	Technology for Last Mile Inclusion	R.Akila, UNICEF
11.15 - 11.30 am	Tea Break	
11.30 - 1.00 pm	Case Studies Moderator - Satish Babu, Director, ICFOSS	
	Technology and Dairy Cooperatives	Amarnath Raja, IEEE HAHC
	Differently abled	Jolly Johnson, Helping Hands Organisation
	Energy Requirements for Fisheries Sector	Vincent Jain, AD SGAF
	Integrated Agriculture in Kuttanad	Fr. Thomas Peelianickal, ED, Kuttanad Vikasana Samithi
	Development of Domestic Mutli-Waste Disposal Device	Dr Sadiq, TKMCE
	IEEE SIGHT Camp - report and findings	Ajin Baby, Chair, IEEE Kerala Young Professionals
1:00 - 2:00 pm	Lunch Break	
2.00 - 3.30 pm	Panel Discussion- Scope of Technological Solutions for Women Issues Moderator - Saratha Jayakrishnan, Chair, WiE, IEEE Kerala Section Panel Members: Dr M D Baby, Rajagiri College of Social Science Latha Raman Jaigopal, Inspiration Gomathy Muralidharan, Past Chair, IEEE Kerala Section M.Sreekumari, Secretary , Mahila Mandiram Manjula Bharathi, COO, Kudumbashree Meera Manu - Reporter, The New Indian Express	
3.30 - 3.45 pm	Presentation on "Technological Solutions to reduce atrocities against Women - An attempt by Kerala WIE Students	TKMCE Students
3.45 - 4.30 pm	Open Forum Prof V K Damodaran, UNIDO International Energy Consultant	
4.30 - 5.00 pm	Tea Break	
5.00 - 7.00 pm	Inaugural Function	
7.00 pm	Cultural Program & Dinner	

Paper Presentation

27 September 2014, 10:30 am to 12:30 pm

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Track 2 - Healthcare Technologies

Paper No	Paper Title
44	Analysis of Foot Sole Image using Image Processing Algorithms
54	Implementation Challenges of Hospital Information System in Super Specialty Hospital "A Case Study of PGIMER, Chandigarh"
55	Design and Implementation of a Low-cost Laser Parkinson's Walker with Safety and Energy Saving Features
64	An Optical Sensor for Propagation Analysis of Lymphocyte Cell for Cancer Cell Detection
80	Design of a micro-power semi-implantable hearing aid with hydraulic amplification methodology and simultaneous resonance bandwidth control technique
100	CBT Assistant: mHealth App for Psychotherapy
110	Short range centralized cardiac health monitoring system based on ZigBee communication
125	Investigation of controllable multi electrode based FES (functional electrical stimulation) system for restoration of grasp - preliminary study on healthy individuals
140	Data Model to Enhance the Security and Privacy of Healthcare Data

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Track 3 - E-Services for the masses & Track 4 - Frugal Innovation

Paper No	Paper Title
32	A Scalable Cloud enabled Mobile Governance Framework
34	Electronic Chart for Indian Railways
41	GPS based Complaint Redressal System
101	The study of recent technologies used in E-passport system
109	An Interdisciplinary, Dialogic Approach to Develop an Electronic Device to Enhance Freedom and Mobility of Women in Public Spaces in the Indian Context - Illustrated by the Case of Convers[t]ationenged
146	Promoting Education: A State of the Art Machine Learning Framework for Feedback and Monitoring E-Learning impact
149	Failure-Aware Resource Provisioning Mechanism for Cloud Applications in Cloud Infrastructure
57	SWAPN: The Dream tool for visually chall

27 September 2014, 1:15 pm to 3:15 pm

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Track 1 - Renewable Energy

Paper No	Paper Title
25	A fast and effective algorithm to optimize the total number and placement of wind turbines
29	Rural electrification in India and Pre-sizing of solar home systems
30	Reduction in Cost with Limited Emission at Hybrid Power Plant in Presence of Renewable Power
35	Isolated 3-Phase Self-Excited Induction Generator in Pico-Hydro Power Plant using Water Pump Load in Remote Mountainous Region of Himalayas
38	Scope for Distributed Renewable Energy Systems in South India
70	Design Of Optical Sensor For Detection Of Brininess Of Water
77	Simulation of Spectral Match and Spatial Non-Uniformity for LED solar simulator
90	Animated Operational Scenarios for Microgrid Systems using Scenario Visualization and Simulation Tools

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Track 5 - Emerging technologies for humanitarian applications

Paper No	Paper Title
3	Low Cost Object Sorting Robotic Arm using Raspberry Pi
46	Modelling Hydrologic regime of Lakshmanatirtha watershed, Cauvery river
50	PROJECT TOUCHPORT - A system consisting of a portable touchscreen to convert any computer screen to a touch sensitive screen and a wearable wireless device to remotely control your computer
72	Smart Glove With Gesture Recognition Ability For The Hearing And Speech Impaired
102	On Disaster Information Gathering in a Complex Shanty Town Terrain
105	A novel strategy for controlling the movement of a Smart Wheelchair using Internet of Things
114	Customer Feedback-based Healthcare Facilities' Identification Using Location Based Computing Technology
115	A kiosk based model for employment generation in rural areas

27 September 2014, 3:30 pm to 5:00 pm

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Track 1 - Renewable Energy

<i>Paper No</i>	<i>Paper Title</i>
97	Protection of Microgrid through Coordinated Directional Over-current Relays
107	Multivariate Wind Power Forecast using Artificial Neural Network
108	A Novel System and Technique for Enhancing the Lifetime of a Sustainable Power Source for Portable Electronic Applications
113	Reinforcement Learning for Optimal Energy Management of Solar Microgrid
131	A Heuristic Approach of estimation of short-circuit current of a photovoltaic cell by Kalman filter

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Track 5 - Emerging technologies for humanitarian applications

<i>Paper No</i>	<i>Paper Title</i>
120	A WSN Lifetime Improvement Algorithm Reaping Benefits of Data Aggregation and State Transitions
124	A Smart Learning based Control System for Reducing Energy Wastage
128	SankatEdge: A Distributed Network Edge Infrastructure Framework for Disaster Recovery
134	An Image Encryption Mechanism for Data Security in Clouds
139	Development of a Keyboardless Social Networking website for visually impaired : SocialWeb
143	A Humanitarian Intelligent Level Crossing Controller Utilizing GPS and GSM