2015 IEEE INTERNATIONAL HUMANITARIAN TECHNOLOGY CONFERENCE

IHTC 2015 OTTAWA

IEEE Ottawa Section

OTTAWA, CANADA
MAY 31 – JUNE 4, 2015

IEEE Canada

STUDENT COMPETITION

1ST, 2ND AND 3RD PRIZE WINNERS WILL BE AWARDED FOR EACH COMPETITION

STUDENT PAPER COMPETITION

2015 IEEE IHTC INVITES YOU TO SUBMIT AN ABSTRACT OF 200-300 WORDS ON A PAPER DEMONSTRATING A LINK TO THE CONFERENCE THEME IN ANY OF THE FOLLOWING TRACK AREAS:

- Technologies to assist in disaster mitigation, relief, and recovery
- Humanitarian supply chains in preparedness, response, and rehabilitation for aid and relief
- Connectivity and communications technologies
- Psycho-social factors facilitating the effective use of technology
- Technologies for water and sanitation
- Forensic technologies for disaster and relief operations
- Mobile health (mHealth), medical technology, and telemedicine
- Social media for building resilience
- Data and personal security technologies for humanitarian and development applications
- Off-grid power, renewable energy, and resilient power grids
- Humanitarian and/or sustainable engineering programs, educational technologies, course materials, and curricula
- Community engagement and social and economic factors in humanitarian engineering
- Food security, micro-farming, and urban agriculture

Deadline for abstract submission:
February 28, 2015

Notification of abstract acceptance:
March 9, 2015

4-page full paper (in IEEE format) due:
March 23, 2015

Reviewer's feedback to authors:
April 27, 2015

Camera-ready papers and copyright forms due:
May 10, 2015

FOR MORE INFO:

ihtc.ieee.ca

MIT RADAR DESIGN REFERENCE:

Charvat, Gregory, Jonathan Williams, Alan Fenn, Steve Kogon, and Jeffrey Herd. *RES.LL-003 Build a Small Radar System Capable of Sensing Range, Doppler, and Synthetic Aperture Radar Imaging*, *January IAP 2011.*

(MIT OpenCourseWare: ocw.mit.edu)

STUDENT PROJECT COMPETITION

DEVELOP AN ADD-ON MODULE FOR THE MIT RADAR PROTOTYPE:

- A DAQ FOR TRIGGERING THE RADAR AND STORING THE DATA, OR
- AN IMU MODULE FOR MEASURING AND DATA LOGGING THE INSTANTANEOUS PHYSICAL POSITION AND ORIENTATION OF THE RADAR WHILE IT TRAVERSES ALONG A SUSPENDED ZIP-LINE, OR
- A VERY LOW-COST AND EFFICIENT WIDE-BAND TX/RX DIRECTIVE ANTENNA PAIR TO REPLACE THE CANTENNAS IN THE ORIGINAL RADAR PROTOTYPE

PROTOTYPES TO BE READY FOR DEMO BY THE TIME OF THE IHTC CONFERENCE (MAY 31 – JUNE 4, 2015)

SUBMIT AN ABSTRACT ON THE PROJECT BY NOVEMBER 30, 2014