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Communications Technology Changing the World

The Student Competition is Now Closed

Purpose

The competition *Communication Technology May Change the World*, by the IEEE Communications Society – Member Relations, recognizes students or teams of students who demonstrate the capacity to improve the lives of people, through the application of communication technology and the development of projects that meet the human needs of people.



1st Prize Winners
Yu-An Chen, Kyung Min Lee
The Cooper Union

2nd Prize Winner
Luka Mustafa
University College London

FIRST PRIZE

Multiple-Input Multiple-Output Optical Communication with Arduino(MOCA)
Yu-An Chen, Kyung Min Lee, The Cooper Union

SECOND PRIZE

Very Affordable Laser Ethernet Transceiver - VALET project
Luka Mustafa, University College London

HONORARY CERTIFICATE WINNERS

(in no order)

Mobile Video Monitoring System Based on Cognitive Radio Technique
Li'an Li, ZhiCheng Xu, Jinpeng Lan, Chao Kong, Yong Cao, Shanghai Jiao Tong University

Design and Development of A "Social" Vehicle Navigation In A Peer-To-Peer, Distributed Traffic Information System
Shadi Djavadian, Ryerson University/Delft University of Technology

SmartBus: Towards Quality Public Transport in Brazil
Matheus Trevisan Moreira, Liana Gross Furini, Pontifical Catholic University of Rio Grande do Sul (PUCRS)

Rescue Support by Crowdsourced Analysis of 3D Environments
Mirela Riveni, Annette Mossel, Christian Schönauer, Peter Kán, Vienna University of Technology

**Video Quality Assessment and Feedback for
Efficient Content Delivery in Wireless Networks**

Eilwoo Baik (Student), Amit Pande (Researcher), Prasant Mohapatra (Professor at CS of UC Davis), Computer Science at University of California, Davis

Members of the Selection Committee

Co-Chairs of the Student Competition Committee
Stefano Bregni, elected VP Member Relations
Nelson Fonseca, VP Member Relations

IEEE and IEEE Communications Society

Edit J. Kaminsky Bourgeois, USA. GITC Chair.
Celia Desmond, Canada. Past IEEE ComSoc President.
Marko Jagodic, Slovenia. IEEE GCN Regional Correspondant
Gustavo Giannattasio, Uruguay. IEEE Director Region 9
Fabrizio Granelli, Italy. IEEE Distinguished Lecturer
Carlos Andrés Lozano Garzón, Colombia. IEEE Colombia Section Chair
John Thompson, UK. GITC Member

Reps. of IEEE ComSoc Technical Committees

Autonomic Communications
Mohamed Faten Zhani, Canada

Ad Hoc & Sensor Networks
Azzedine Boukerche, Canada

Communicatons and Information Security
Kai Zheng, China

Communications Software
Joel Rodrigues, Portugal

Communications Systems Integration & Modeling
Periklis Chatzimisios, Greece
George Michailidis, USA

Communications Theory
Matthew Valenti, USA

Data Storage
Haitao (Tony) Xia, USA

Green Communications & Computing
Jinsong Wu, USA

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Information Infrastructure & Networking
Yacine Ghamri-Doudane, France

Multimedia Communications
Wen Yonggang, Singapore

Network Operations & Management
Lisandro Zambenedetti Granville, Brazil
Filip De Turck, Belgium

Optical Networking
Xiaojun (Matt) Cao, USA

Power Line Communications
Danilo Zanatta, Switzerland
Virginie Dégardin, France

Radio Communications
Alberto Rabbachin, European Commission

Satellite & Space Communications
Igor Bisio, Italy

Signal Processing & Communications Electronics
Fei Fei Gao, China

Transmission, Access, and Optical Systems
Tarek El-Bawab, USA

Vehicular Networks & Telematics Applications
Tao Zhang, USA

Wireless Communications
Abd-Elhamid M. Taha, Saudi Arabia

Eligibility

Participants may compete as an individual or as a team.

Individuals who compete must be either a Student Member or a Graduate Student Member of the IEEE Communications Society at the time their entry is submitted and at least 18 years of age.

Teams must be led by either a Student Member or a Graduate Student Member of the IEEE Communications Society at the time their entry is submitted, but may include non-members. All team members must be at least 18 years of age. Team members do not need to be from the same country or region. Students must play the primary role in the problem-solving. However, they may receive technical and financial assistance from others.

It should be clear that the intent and spirit of the competition is for students, not others, solving a problem and designing a project. Senior persons acting in any mentorship role must limit the level of support provided to general guidance and must not contribute in any other form that might be considered original authorship, or in any way that may enable claims of rights or ownership to the submitted entries. Work-on-behalf of teams or individuals will not be allowed anyway. In any case, the submission entry must specify clearly the contribution of mentors or others supporting the students in the team.

Void where prohibited by law.

Submission

Entries must be submitted using the form on the competition website under the submission link:

The submission should include the following information:

- project title;
- executive summary;
- general description;
- technical solution and project details;
- social impact on humanity or local community;
- implementation status, testing and trial (if any);
- previous submissions to other contests (if any);
- additional documentation (if any);
- optionally, a short video (5 minutes max) posted online where team members present their project or give a practical demonstration;

- contact information.

Incomplete entries are void and will not be eligible to win.

Prizes

The team leader or the individual, whose entry is chosen as the top prize, will be invited to receive his/her prize at the IEEE Global Telecommunications Conference 2013 (IEEE GLOBECOM 2013). All prizes are non-transferable.

All remaining prizes will be presented by a local IEEE ComSoc representative (namely, the IEEE ComSoc Regional Director, or an appropriate designee such as the IEEE ComSoc Student Activities Chair, the Chapter Chair, the Student Branch Chair, etc.)

Monetary prizes to winning teams will be split equally among the team's registered student members, as permitted by law. Winners are encouraged but not required to use the prize funds for an IEEE-related purpose, such as furthering their project or supporting travel to IEEE conferences. Prizes:

- 1st: USD 2000 + plaque
- 2nd: USD 1000 + plaque
- All other projects judged meritorious by the evaluation committee will receive honorary certificates of appreciation by the IEEE Communications Society.

Taxes, if any, are under the sole responsibility of each prize winner.

Evaluation of entries and selection of the winners

Entries will be accepted up until the submission deadline (**September 2 2013**) via the competition online form, where participants must register and submit their entries.

Contestants are encouraged to register in advance of submitting their entries.

Entries will be evaluated and ranked by an international judging committee, appointed by the IEEE Communications Society Vice-President - Members Relations.

Evaluation criteria will include: originality, creativity in applying communication technology, social impact on humanity or local community, challenging technical aspects, practical results, and possible application in other parts of the world.

Notification of prize winners

Winners will be notified promptly after selections are made, at contact address provided upon submission. In case a winner does not respond within a reasonable time and cannot be contacted, another winner may be selected.

Requirements of prize winners

IEEE Communications Society may require, within its discretion, each prize winner to sign and return an affidavit of eligibility and liability and publicity release, in which each winner consents to the use of his or her name, age, hometown and photo by IEEE for advertising and promotional purposes, without any additional compensation, wherever lawful, as a precondition to award of a prize. Failure to do so may disqualify the entry.

Sponsor and funding sources

This contest is sponsored and funded by the IEEE Communications Society, Members Relations.

Return of entries

No entries will be returned.

All entries become the property of IEEE Communications Society. By entering, all participants consent to the use by IEEE Communications Society of all the information provided in the entries for marketing or sales promotion purposes without any attribution, identification, right of review or compensation. All entrants agree to release and hold harmless IEEE and its officers, directors, employees and agents from and against any claim or cause of action arising out of participation in the contest.

Questions

Questions should be sent to scp@comsoc.org

Disputes Concerning the Contest

These rules shall be construed and governed by the laws of the State of New Jersey. Participants hereby consent to the personal jurisdiction in and venue of the courts located in the State of New Jersey for the adjudication of any and all claims arising out of or relating to the subject matter of this contest, and the interpretation or enforcement of the official rules thereof.

Contest Results and Official Rules

By participating in this contest, participants agree to abide by the terms and conditions as established by the IEEE Communications Society. The IEEE Communications Society reserves the right to qualify all submissions and to reject any submissions that do not meet the requirements for participation as established by IEEE Communications Society.

The IEEE Communications Society assumes no responsibility for computer system, hardware, software or program malfunctions or other errors, failures, delayed computer transactions or network connections that are human or technical in nature, or for damaged, lost, late, illegible or misdirected entries; technical, hardware, software, electronic or telephone failures of any kind; lost or unavailable network connections; fraudulent, incomplete, garbled or delayed computer transmissions whether caused by IEEE Communications Society, participants, or by any of the equipment or programming associated with or utilized in this contest; or by any technical or human error that may occur in the processing of submissions or downloading, that may limit, delay or prevent a participant's ability to participate in the contest.

The IEEE Communications Society reserves the right, in its sole discretion, to cancel or suspend this contest or terminate the contest and award a prize from entries received up to time of termination or suspension should virus, bugs or other causes beyond IEEE's control, unauthorized human intervention, malfunction, computer problems, phone line or network hardware or software malfunction, which, in the sole opinion of IEEE corrupt, compromise or materially affect the administration, fairness, security or proper play of the contest or proper submission of entries. IEEE is not liable for any loss, injury or damage caused, whether directly or indirectly, in whole or in part, from downloading data or otherwise participating in this contest.

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Stefano Bregni, Chair of the Student Competition Committee

Nelson Fonseca, VP Member Relations

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