INTERDIGITAL
INNOVATION CHALLENGE
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WHERE **BRIGHT IDEAS** BECOME
THE NEXT BIG THING!
$175,000 IN PRIZES
⭐ CHALLENGE FINALISTS

RADIO SIGNAL PROPAGATION & PROCESSING | RADIO MODEM INNOVATIONS | ENERGY IMPROVEMENT IN RADIO PROCESSING | RADIO NETWORK MANAGEMENT & SYSTEMS INNOVATIONS | COMPRESSION & DATA MANAGEMENT TECHNIQUES | WIRELESS & NETWORK VIRTUALIZATION

Winners Announced

InterDigital and the California Institute for Telecommunications and Information Technology (Calit2) at the University of California, San Diego announced the winners of the InterDigital Innovation Challenge (I2C) at GigaOM's Mobilize2012 conference in San Francisco. Press release available here.

⭐

1st Place
$100,000 cash award, was presented to Team Ultrasonic Wireless Sensors - Ioannis Kymissis, Kshitij Yadav, and Peter Kinget - from Columbia University. Using ultrasound for wireless communication, the invention provides significant energy improvements in radio processing, allowing battery-powered wireless sensors to stay in the field up to ten times longer.

⭐

2nd Place
$50,000 cash award, was given to Team Airshark - Suman Banerjee and Ashish Patro from the University of Wisconsin, Madison. Focused on radio

network management and systems innovations, the team developed a software solution for automated and real-time RF diagnosis of non-Wi-Fi interference to Wi-Fi devices.

3rd Place
$20,000 cash award, was presented to Team Null Space Learning Algorithms - Alexandros Manolakos, Yair Noam, and Andrea Goldsmith - from Stanford University. The team invented a novel approach for radio signal propagation and processing that allows several wireless radios to coexist on the same frequency bands while causing minimal interference.

Popular Choice
The $5,000 "popular choice" prize had already been awarded to the Rutgers-based DataMiser team during the public voting stage of the contest.

Meet the Finalists

The next step in the InterDigital Innovation Challenge is upon us. As part of the "incubation" phase of the competition, each I2C finalist team has been asked to participate in an online video chat and interview session. The session format begins with a five-minute introduction by the team followed by 10 to 15 minutes of questions from a Calit2 representative about their proposal and its technical components, commercial viability, marketplace attractiveness and overall value to the wireless industry. The remaining 10 to 15 minutes is reserved for Q&A from online attendees. I would like to invite you to participate in this as this is one of the few times you will be able to engage with the teams directly and gain additional insight into their proposal. It is also an opportunity for you to provide guidance and useful feedback on other related or relevant developments. The chats will be hosted exclusively online via Cisco WebEx and will be recorded and remain public. Instructions for joining into the video chats appear at the end of this message.

The video chats will be conducted from July 23 (Monday) through July 27 (Friday) and the schedule of teams is listed below.

Monday, July 23, 2012
Data Miser, 10:30 AM PST (1:30 p.m. EST) ~Replay
Mobile 3D Video System, 12:30 PM PST (3:30 p.m. EST) ~Replay

Tuesday, July 24, 2012
Intelligent RF Sensor, 11:00 AM PST (2:00 p.m. EST) ~Replay
AmbNet: Resilient Wireless, 12:30 PM PST (3:30 p.m. EST) ~Replay

Wednesday, July 25, 2012
Null Space Learning Algorithms, 11:00 AM PST (2:00 p.m. EST) ~Replay
SignetRing, 12:30 PM PST (3:30 p.m. EST) ~Replay

Thursday, July 26, 2012
Ultrasonic Wireless Sensors, 11:00 AM PST (2:00 p.m. EST) ~Replay
Airshark, 12:30 PM PST (3:30 p.m. EST) ~Replay

Friday, July 27, 2012
Cognitive Power Management, 10:00 AM PST (1:00 p.m. EST) ~Replay
Wireless Imaging System, 11:30 AM PST (2:30 p.m. EST) ~Replay
Wireless Media Express, 1:00 PM PST (4:00 p.m. EST) ~Replay

Video chat playlist is also available on Calit2's youtube channel.

About the challenge

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The most innovative wireless technologies in the world have one thing in common: They all began with a bright idea. The InterDigital Innovation Challenge (I2C) is an opportunity for individuals or teams from any North American college or university to compete for $175,000 in prizes by testing out proposals and prototypes for wireless technologies before a panel of esteemed judges from industry and academia.

But in this increasingly connected world, it isn't enough to merely think big -- you must also create big 'buzz' for your idea. That's where the I2C Community comes in: The team or individual who best harnesses the power of social media to earn the "popular vote" will automatically move onto the final round, where all finalists are eligible for an additional $5,000 popular vote prize.

I2C is a collaboration between InterDigital and the California Institute for Telecommunications and Information Technology (Calit2) at the University of California, San Diego. Both Interdigital and Calit2 have made it their mission to nurture public research and accelerate innovation in wireless products and technologies, with a particular emphasis in:

- **Radio signal propagation and processing**
- **Radio modem innovations**
- **Radio network management and systems innovations**
- **Compression and data management techniques**
- **Energy improvement in radio processing**
- **Wireless and network virtualization**

Submissions to the InterDigital Innovation Challenge will be accepted through March 30, 2012. Now's the time to let your bright ideas shine.

Who we are

INTERDIGITAL.

InterDigital® develops fundamental wireless technologies that are at the core of mobile devices, networks, and services worldwide. We solve many of the industry's most critical and complex technical challenges, inventing solutions for more efficient broadband networks and a richer multimedia experience years ahead of market deployment. InterDigital has licenses and strategic relationships with many of the world's leading wireless companies.

For more information, visit the InterDigital website: www.interdigital.com

Calit2

The California Institute for Telecommunications and Information Technology (Calit2) was founded as a partnership between the State of California, the University of California and private industry to foster innovation and create knowledge that will help drive California's economy. Calit2, which has divisions at the UC San Diego and UC Irvine, is uniquely positioned to support the development of advances in wireless telecommunications research. Five of the eight endowed chairs funded by Calit2's industry partners are primarily focused on wireless research, from wireless access networks and mobile computing to telecommunications and information technology, as well as communications policy. The UCSD division of Calit2 also has a suite of laboratories dedicated to research on a variety of wireless systems, including power amplifiers, antennas, base stations and more which comprise the core wireless resources and services and services available to enable and catalyze innovation.

For more information, visit the Calit2 website: calit2.net

Awarding Decisions

The I2C prizes will be awarded following a review process conducted by a judging panel comprised of participants from academia and industry, as selected by Calit2. The following criteria will be used to evaluate the innovative and technological merit of the proposals:

- Innovation of idea
- Probable commercial viability of the technology
- Likely milestones necessary to develop and commercialize the technology
- Marketplace attractiveness
- Likely intellectual property outcomes, if any

Rules and Judging Criteria »

Intellectual Property

Intellectual property contained in the applicants' proposals will be the property of the applicant or applicants' institution and will be managed and protected in accordance with their policies. Neither Calit2 nor InterDigital will have intellectual property rights in any applicants' proposal as a result of the submission to the Program. Calit2/UCSD employees who are subject to the normal UCSD intellectual property policy.

More on Intellectual Property »

Timeline

- 14FEB
  Accepting Applications 7 AM EDT. *Reached*
- 30MAR
  Deadline for Proposals 5 PM EDT. *Reached*
- 30APR
  Public Voting Closed 5 PM EDT. *Reached*
- 15MAY
  Finalists Announced 5 PM EDT. *Reached*
  at CommNexus
- 01SEP
  Deadline for Final Entries Midnight EDT. *Reached*
- 21SEP
  Winners Announced 5 PM EDT. *Reached*

Awards

- **1st Place $100,000** per team/individual

- **2nd Place $50,000** per team/individual

- **3rd Place $20,000** per team/individual

- **Popular Choice Award** Finalist Pool Spot

Judges

- **Dr. Martha Dennis** Gordian Knot
- **Dr. Jerry Gibson** University of California, Santa Barbara
- **Dr. Hamid Jafarkhani** University of California, Irvine
- **Dr. Lawrence Larson** Brown University
- **Dr. Arogyaswami Paulraj** Stanford University
- **Dr. Ramesh Rao** Calit2, UC San Diego
- **Dr. Dipankar Raychaudhuri** Rutgers University
- **Mr. Michael Robertson** MP3tunes
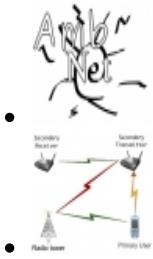- **Mr. Naresh Soni** InterDigital

Twitter feed

- i2challenge: InterDigital: InterDigital Innovation Challenge Finalists Announced

  About 4 months ago

- i2challenge: Calit2: InterDigital Innovation Challenge Finalists Announced http://t.co/9IdRS3wn

  About 4 months ago

- i2challenge: InterDigital Innovation Challenge http://t.co/oLDlEorM

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