IEEE COMMUNICATIONS SOCIETY
Central Texas (Austin) Chapter
2015 Chapter Achievement Award
2015 Chapter-of-the-Year Award

# IEEE Communications Society
# NA RCCC 2016

# ComSoc Austin Chapter
# Outstanding Chapter Report

## Fawzi Behmann

## December 3, 2016

IEEE COMMUNICATIONS SOCIETY
Central Texas (Austin) Chapter
2015 Chapter Achievement Award
2015 Chapter-of-the-Year Award

# Agenda
# Life Cycle

I. Audience focused Budget Planning

II. Technical Meetings

- Technical Meetings/Topics
- Distinguished Lecturer/Speaker Program
- Speaker Appreciation Award
- Feedback/Survey form
- Officer appreciation & Member Upgrade

III. Reaching out

- Membership Development & Networking
- Collaboration with other chapters
- Sponsoring Local Industry events

IV. Being an ambassador “IEEE Brand”

- Society Loyalty
- Section/Region

V. Reporting & Tracking

- vTools, L31, SAMIEEE
- Financial health & reporting
- Election time

IEEE

# Education & Positioning – IEEE Over 400,000 members

- Region 1 (Northeastern US)
- Region 2 (Eastern US)
- Region 3 (Southern US)
- Region 4 (Central US)
- Region 5 (Southwestern US)
- Region 6 (Western US)
- Region 7 (Canada)
- Region 8 (Africa, Europe, Middle East)
- Region 9 (Latin America)
- Region 10 (Asia and Pacific)

# About IEEE

**About IEEE Home**

From this section:

- Mission and vision
- IEEE Strategic Plan
- Code of Conduct
- History of IEEE
- Newsroom
- Annual Report
- Financials and statistics
- Volunteer resources
- IEEE Future Directions
- IEEE at a glance

Corporate identity & strategy

See the role IEEE plays in advancing technology for humanity.

Awards & recognitions

IEEE sponsors various programs that honor achievements.

Governance

Learn about IEEE's operational structure.

Jobs at IEEE

See the benefits of working for IEEE.

## Education & Careers

- **Education & Careers Home**

From this section:

- Employment resources
- Salary resources
- Development resources
- Mentoring resources
- Continuing education
- Pre-university resources
- Accreditation
- Faculty resources
- Program evaluator resources
- Positions available at IEEE
- IEEE Collabratec™

- Career & job resources

Find employment. Develop in your current job. Plan your career. Participate in mentoring.

- Continuing education

Access continuing professional education on engineering topics.

- University & accreditation

IEEE provides services and programs to faculty, students, and volunteers.

- Pre-university education

Find education resources for educators, parents, students, volunteers, and the public.

## Conferences & Events

**Search Conferences**

Keywords, Title, Conf #, (

**Select type & date range**

- (•) Conference date
- ( ) Call for papers

From:

To:

**Location**

IEEE region

Select a region (optior

Or country/region

Select a country (optic

Search

- **Conferences & Events Home**

From this section:

- Upcoming conferences
- Running an IEEE conference
- Conference Education Program
- Event Management Services
- IEEE Conference Application
- IEEE Financial Reporting Form
- IEEE Publication Form
- Conference publications
- Local meetings and events

IEEE sponsors more than 1,700 annual conferences and meetings worldwide.

IEEE is also highly involved in the technical program development of numerous events, including:

- Trade events
- Training workshops
- Job fairs
- Local programs
- Volunteer meetings

Member Discounts portfolio

## Insurance Services

IEEE works with many top companies to offer a variety of protection plans for life, health, home, auto, and business. Sign in with your IEEE Account to access these benefits:

**Life, Health, and Business Insurance**

- Insurance for US/Canada/Puerto Rico
- International Insurance
- India Medical Insurance

**Auto and Home Insurance**

- Liberty Mutual (US)
- Travelers (US)
- The Personal (Canada)

## Travel Discounts

Whether traveling for business or pleasure, IEEE can help you save on these services. Vendors' terms and conditions apply. Sign in with your IEEE Account for details on these programs.

- Car rental
- Credit card programs
- Singapore luxury hotel offer
- Travel insurance

## Technology Discounts

Shop for computers at substantial savings. Sign in with your IEEE account to view the current discounts and specials.

- Dell products for the home and office

Available in the US, Canada, and select countries in Europe, Latin America, and Asia Pacific

## Home and Office Discounts

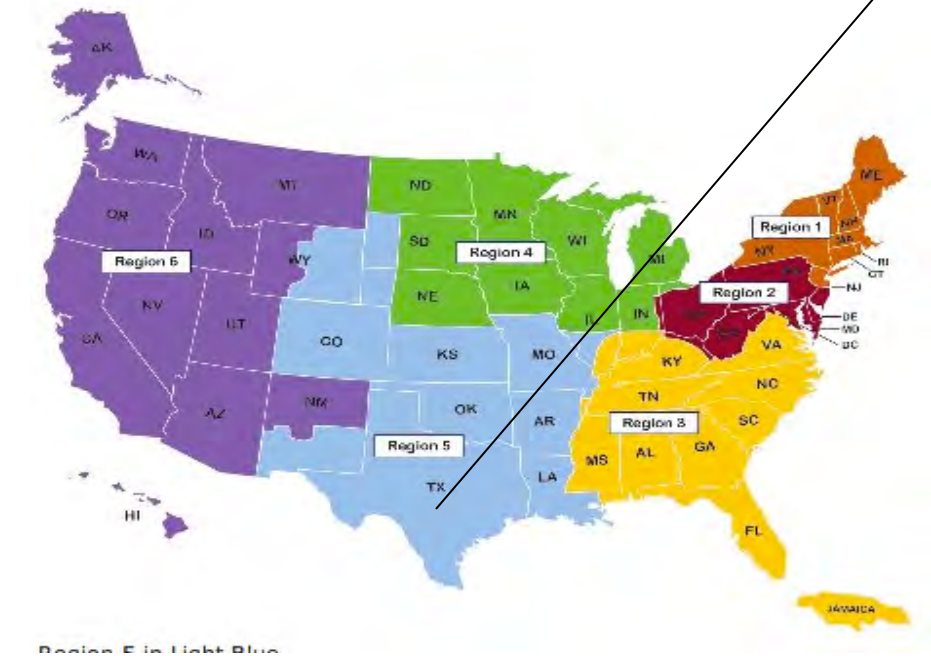
Save on your shipping needs with UPS. Sign in with your IEEE Account to take advantage of this member discount.

- UPS Shipping

Available in the US and Canada

# IEEE

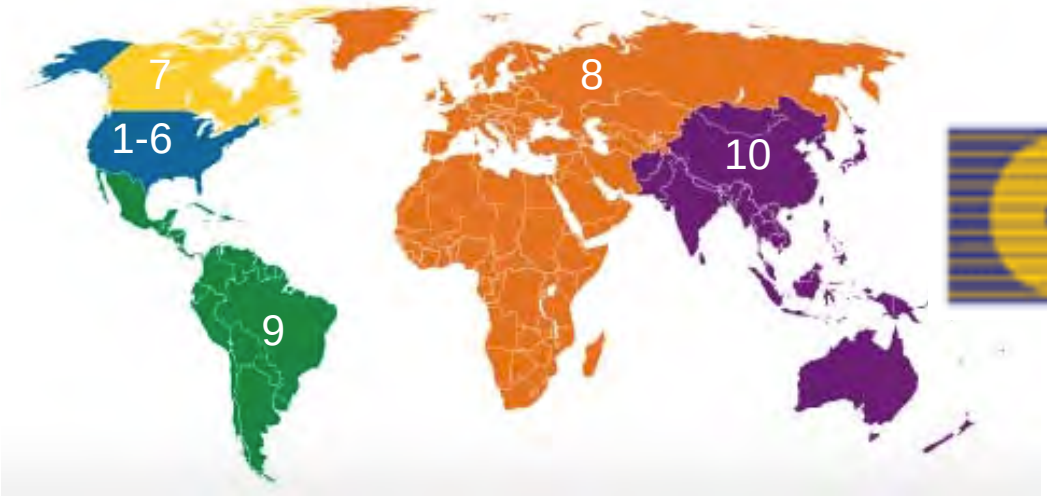
## IEEE USA (R1-6)
## R5 – 30 Sections
## CTS – Central Texas Section




Region 5 in Light Blue

- Arkansas
- Arkansas-River Valley
- Baton Rouge
- Beaumont
- Black Hills Subsection
- Central Texas
- Corpus Christi
- Dallas
- Denver
- El Paso
- Fort Worth
- Freeport Subsection
- Galveston Bay
- High Plains Section
- Houston
- Kansas City
- Lafayette
- New Orleans
- Oklahoma City
- Ozark
- Panhandle
- Pikes Peak
- Rio Grande Valley Subsection
- Rolla Subsection
- Saint Louis
- Shreveport
- South Plains
- Southwest Missouri
- Tulsa
- Wichita

# IEEE Over 400,000 members
# Supported by ~ 40 societies Across 10 Regions




IEEE COMMUNICATIONS SOCIETY

## IEEE ComSoc
## 212 Chapters worldwide

IEEE COMMUNICATIONS SOCIETY
Central Texas (Austin) Chapter

**Was Awarded**
**2015 Chapter of the Year Award**
**and**
**2015 Chapter Achievement Award**

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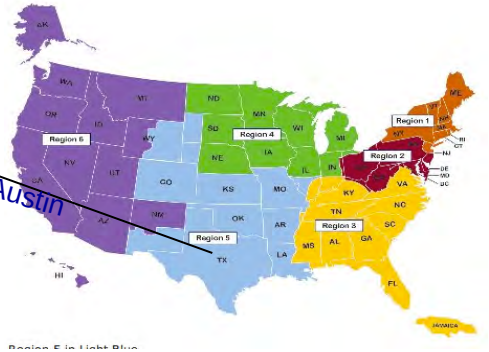
IEEE COMMUNICATIONS SOCIETY
Central Texas (Austin) Chapter

2015 Chapter Achievement Award
2015 Chapter-of-the-Year Award




## Austin Chapter Vision

- COMSOC/SP Austin is a community comprised of a diverse group of industry professionals with a ***common interest*** in ***advancing communications & Signal Processing technologies.***

## Mission Statement

- The IEEE chapter of Communications & Signal Processing Societies seeks to be the organization of choice for communications and signaling processing technologists in the Central Texas Area and to ***provide education and networking*** for those professionals.

## 2016 Chapter Objectives:

- Hold monthly high quality technical meeting
- Theme: Advanced Comm Technology: **5G**, Wireless and impact on IoT, Healthcare, Industry and smart cities.
- Distinguished Lecturer program
- COMSOC/SP Website *http://sites.ieee.org/ct-comsp/*
- Community/Industry/University Outreach – IEEE Collabratec Initiative
- *Outreach, Sponsor/Support IEEE 5G Summit (Aug. 3), IEEE N3XT (Sep. 17), Texas Wireless Summit ( Oct. 18), IEEE Big Data (Nov. 3)*
- Chapter financial health

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IEEE.org | IEEE *Xplore* Digital Library | IEEE Standards Association | IEEE Spectrum Online | More IEEE Sites

# IEEE Central Texas Austin Communications / Signal Processing Joint Chapter

IEEE

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**Welcome to the IEEE Central Texas Austin Communications / Signal Processing Joint Chapter**

http://sites.ieee.org/ct-comsp/

Find friends | Fawzi | Home

IEEE COMSOC/SP Austin Chapter

December 15 – ComSoc/SP/CS Special MTG

IEEE Joint COMSOC/SP/CS Austin Chapters invites you for an insightful and intriguing topic on view on reliable automated vehicle localization despite poor weather, dense urban environments, and sensor deception, including GPS/GNSS, radar, and V2V sensing.

Title: "Trusted Automated Vehicles"Presenter: Prof. Todd E. Humphreys, associate professor in the department of Aerospace Engineering and Engineering Mechanics at the University of Texas Austin

Date: 15 December, 2016

Time: 06:00PM to 08:00PM

Location: AT&T Labs,

9505 Arboretum, Austin, TX

**RSVP** https://meetings.vtools.ieee.org/m/41818

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IEEE Central Texas Austin - Communications Society/Signal Processing Society

27 members

**IEEE COMSOC/SP Austin Chapter An insightful and intriguing view on several space programs including Mercury, Gemini, Apollo and path to the moon: "An Insiders View of the US Space Programs"**

IEEE COMSOC/SP Austin Chapter

An insightful and intriguing view on several space programs including Mercury, Gemini, Apollo and path to the moon:

"An Insiders View of the US Space Programs"

Date: 21-April-2016
Time: 06:00PM to 08:00PM (2.00 hours)
AT&T La... Show more

Like Comment

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IEEE Signal Processing Society

# Austin Chapter Leadership Team for 2016/2017

- Chapter Chair – Fawzi Behmann
- Past Chairs &Vice Chairs - Hanan Potash
- Treasurer - Fawzi Behmann
- Secretary & Program Logistics – Brad Wallace
- Mem. Dev. & Historian – Open
- Webmaster & Social Media – Norma Antunano
- AT&T Liaison - Frances Freeman

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# IEEE Austin COMSOC/SP Joint Chapter

## Thanks to the support of

IEEE COMMUNICATIONS SOCIETY
Central Texas (Austin) Chapter
2015 Chapter Achievement Award
2015 Chapter-of-the-Year Award

# Austin COMSOC/SP Chapter - 2016 Technical Sessions

Completed L31

Jan 19 **"Wireless Forever: Engineering the Radios that Never Plug-in"**, Prof. Greg Durgin, Georgia Tech

Feb **19 "Mechanical Engineering at the National Level"**, Prof. Delbert Tesar, Carol Cockrell Curran Chair in Engineering, Director, Robotics Research Group, The University of Texas at Austin

April **23 "Discover Engineering: Encouraging School Students to Pursue Technical Careers"**,
Presenter: John Purvis of Discover Engineering and of The IEEE Central Texas Section

May **25 "Cloud Computing: The Path to Freedom"**, Presenter: Don Dalrymple, Management Consultant, The Dalrymple Group

May 25 **"V.I.S.I.O.N to the Bank Vault",** Meshell Baker the Founder/Owner of Meshell Baker Enterprises (MBE)

June 23 **"Virtualization – a key driver for 5G and IoT",** Presenter: Fawzi Behmann, TelNet Management

Aug 17 **"BODYHACKING: IMPROVING YOURSELF THROUGH SCIENCE, DATA, AND TECHNOLOGY"**,
Dustin D. Trammell, Chief Executive Officer, Trammell Ventures

Sep 22 **"New FAA Drone regulations effective August 29th, 2016 and Integration of Drones Into Multiple Business Models"** ,
Presenter: Robert Youens, Owner of Camera Wings

Oct 4 **"MACHINE TYPE COMMUNICATIONS FOR INTERNET OF THINGS,**
Presenter: Prof. Riku Jäntti, Head of the department of Communications and Networking at Aalto University, Finland

Dec 1 **"5G and Future Wireless Internet: Challenges and Emerging Technologies"**
Presenter: Distinguished Lecturer Dr. H. Anthony Chan, Huawei

**Survey feedback form is a key to improvement and successful future planning**

# Feedback Form

*Your feedback is very important to IEEE COMSOC/SP Austin Chapter*

Please respond to the items below and provide additional details where appropriate.

IEEE COMMUNICATIONS SOCIETY
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2015 Chapter-of-the-Year Award

**1. The Session** — **1=Poor** **5=Excellent**

Overall rating of the session 1 2 3 4 5

Comments on the session:

**2. The Presenter**

Overall knowledge of subject 1 2 3 4 5

Comments on the presenter(s):

**3. The facilities**

Convenience of meeting location 1 2 3 4 5

Comments on the facilities:

**4. Please specify the MAIN reason for attending the meetings**

a) Content, b) Networking, c) Personal Growth & Development, d) Help me at the job, e) Speaker, f) Other

**5. Which topics and themes are you interested in?**

**a) Wireless Architecture eveolution, b) Communications Multi-core-multiprocessing, c) Signal Processing , d) Cyber Security, e) IOT, f) Big Data/Analytics, g) Applications ……, h) Others**

# Austin COMSOC/SP Chapter - 2016 Outreach Activities

- DLT/DSP – Sponsor:
  - DL Oct 4 Distinguished Lecturer Prof. Riku Jäntti, Head of the department of Communications and Networking at Aalto University, Finland
  - Dec 1 Distinguished Lecturer Dr. Anthony Chan, Huawei
  - Dec 15 DL Prof. Todd Humphreys, UT
- Community Events – Sponsorship:
  - IEEE/NI 5G Summit - Aug 3
  - IEEE N3XT - Sept 17
  - IEEE Day - Oct 4
  - Texas Wireless Summit - October 18
  - IEEEE Big Data - Nov 3
  - Texas State U. – Senior Design Day - Dec 9
- Collaboration
  - CTS – Sprint & Fall Section Meetings
  - COMSOC/SP Admin/Planning - Periodical
  - COMSOC/CS Planning/Joint sessions
  - Closer collaboration with AT&T, IBM, UT, Freescale
  - Collaboration with other chapters for joint meetings (Consulting Network, Computer Society,..)
  - Student engagement (Austin & San Antonio)
  - IEEE CTS Collabratec Moderator
  - IEEE CTS PAPR – Policy & Procedures
  - IEEE CTS PACE Section Chair
  - IEEE CTS Conference Chair + Committee (20+ Active conferences)
  - IEEE R5 Annual meeting an R5 Outstanding Member Award
  - IEEE NA ComSoc Board Vice Chair
  - IEEE NA ComSoc R5 Rep

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# Austin COMSOC/SP Chapter - 2016 Building Brand Equity Outreach Activities

Ambassador representing the chapter at other functions

- Student Advisor UT-San Antonio
- IEEE BHI 2016 half-day session chair/moderator on SDN, Big Data and Healthcare, Feb 27
- IEEE Himss/IHP Presentation on Wearables , Mar 2
- IEEE CVD April 12-13
- IEEE Ottawa Section Distinguished Speaker July 21
- IEEE ComSoc - ComTech in healthcare venue feasibility - Ottawa Jul 25-26
- IEEE N3XT Presentation to Young Professional Sep 17
- Austin Smart City Consortium Oct 10
- IEEE Smart Tech One Day Workshop on IoT Oct 1
- IEEE Toronto Section – Distinguished Speaker November 14
- IEEE ComSoc – ComTech in Healthcare venue feasibility – Toronto Nov 15
- WHS HS Advisory Board Nov 29
- IEEE ComSoc NA RCCC – Dec 3-4
- State University Senior Design Day – Keynote speaker Dec 9

Q4 Budget Preparation and Election

# Reaching out Events

# IEEE CTS Booth at NI Week 2016

Promoting
IEEE Membership
Development

and

5G Summit

# NIWeek

5G Summit, August 3, 2016 | Austin, Texas

# IEEE 5G SUMMIT

## Wednesday | August 3

### 5G Summit

| | |
|---|---|
| 10:30 a.m. | Making 5G A Reality |
| 1:00 p.m. | Panel: How Will Record-Setting Spectral Efficiency Impact Real 5G Systems? |
| 2:15 p.m. | Panel: Pushing the Bandwidth Limits With New Spectrum—How Much Is Enough? |
| 3:30 p.m. | Panel: The Path to 5G Standards |
| 4:45 p.m. | Panel: Cellular Technologies in Unlicensed Spectrum: LTE-U, LAA, and Beyond |

# In Planning

September 17 , 2016

AUSTIN, TX

# Ideas, Innovation, & Inspiration

**Hosting IEEE N3XT™**

Galvanize Austin,
118 Nueces Street.

IEEE N3XT™ IEEE

**CHOOSE** from 3 Education Tracks
Startup Inspiration, Bigger Picture, Fundamentals of Startups

**NETWORK** with 3 Technology Audiences
Entrepreneurs, Innovators, Investors

**ENJOY** 3 Featured Speaker Event Sessions

Student Member Fee $90
IEEE Member Fee $135
Exhibitor Fee $700
More options @ieeeN3XT

10% OFF YOUR REGISTRATION WITH PROMO CODE

**20N3XT1610**

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# September 17, 2016

- **Keynotes**
  - **(AM) Michael Hyatt – a Dragon on CBC's Next Gen Den**
  - **(PM) Whurley – tablet app developer, open source advocate**
- **Panels**
  - **Intellectual Property and Patents – lawyers**
  - **Technical Policy – IEEE USA**
  - **Scaling: How NOT to Fail Fast – Successful startup founders**

| Fundamentals of Startups | Startup Inspiration | The Bigger Picture |
|---|---|---|
| Angel Investor Pitch bootcamp<br>Hall Martin, *Texas Entrepreneurs Networks*<br>Fawzi Behmann, *IoT Unleashed*<br>Solo-preneurship workshop | Ryan Lund, *Ceribri AI*<br>Kevin Koym, *Tech Ranch*<br>Aneshia Y. Smith, *Aneshia Y. Smith Institute for Women and Girls*<br>Ben Deda, *Galvanize Austin* | Tiana Laurance, *Factom*<br>Ted Lehr, Data Architect, *City of Austin*<br>Mellie Price, *Dell Medical School* |

http://n3xt.ieee.org/attend/ieee-n3xt-austin-2016/ **Registration now open**

# September 17, 2016

# IEEE ComSoc/SP September 22

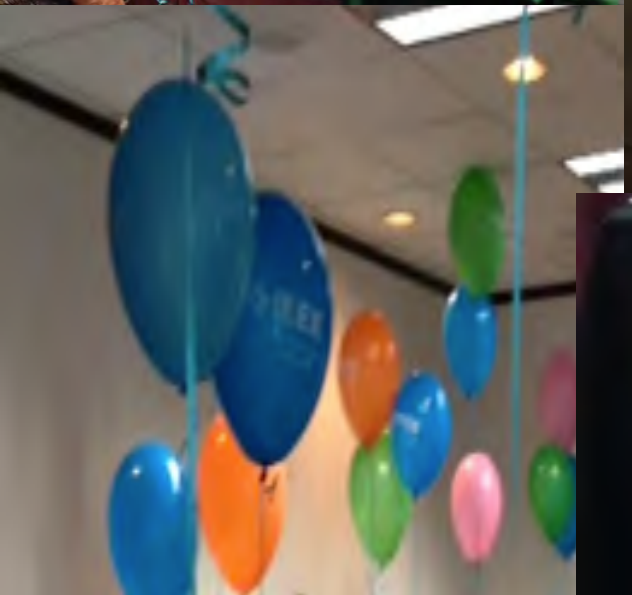
**“NEW FAA DRONE REGULATIONS EFFECTIVE AUGUST 29TH, 2016 AND INTEGRATION OF DRONES INTO MULTIPLE BUSINESS MODELS ”**

Robert Youens, Owner: Camera Wings Aerial Photography

IEEE 2016 DAY
LEVERAGING TECHNOLOGY FOR A BETTER TOMORROW

# October 4, 2016

## Let the celebrations begin



IEEE
Austin Chapter

IEEE
Advancing Technology for Humanity
IEEE COMMUNICATIONS SOCIETY
IEEE
Advancing Technology for Humanity
Austin Chapter

October 4, 2016
IEEE
Austin Chapter

IEEE
DAY

TEXAS WIRELESS SUMMIT 2016

**October 18, 2016**

## TWS 2016: Communication, Sensing, and Data Analytics for Automated Vehicles

Blanton Museum of Art
Edgar Smith Auditorium
200 E Martin Luther King Jr. Blvd
Austin, Texas 78701

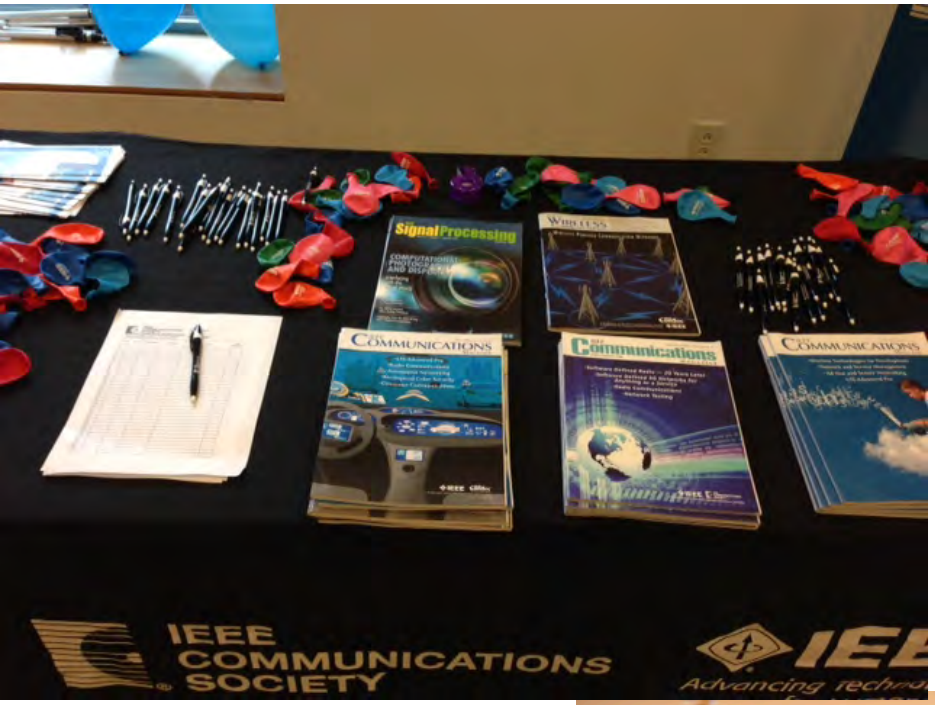
http://texaswirelesssummit.org

2016 Sponsors

QUALCOMM
NATIONAL INSTRUMENTS
Michael Best
OPEN CONNECTIVITY
TOYOTA InfoTechnology Center, U.S.A., Inc.
HUAWEI
NORTON ROSE FULBRIGHT
RCR
IEEE COMMUNICATIONS SOCIETY

TEXAS WIRELESS SUMMIT 2016

# October 18, 2016



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IEEE computer society

3 NOVEMBER 2016 | AUSTIN, TX

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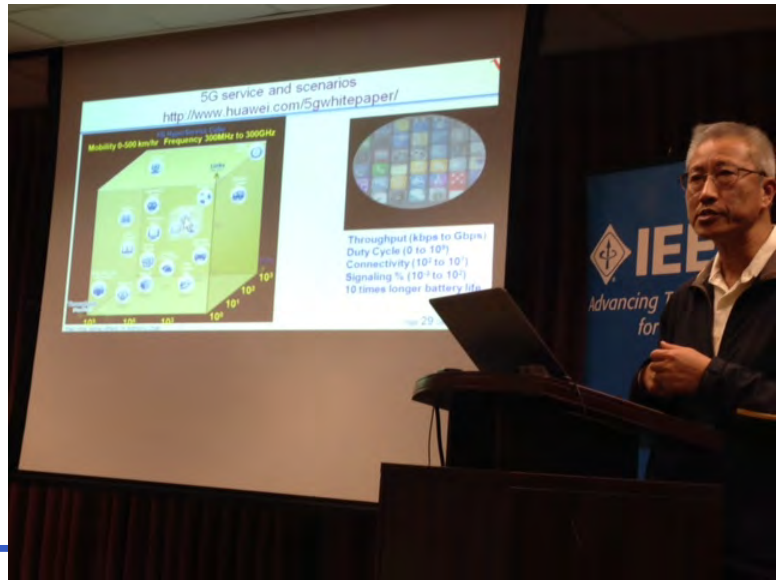
# Dec. 1, 2016
# DL Dr. Anthony Chan, Huawei



Upcoming Events

TEXAS STATE

College of Science and Engineering

# Ingram School of Engineering

## Registration

### Fall 2016 "Senior Design Day"

- Date: December 9, 2016
- Time: 9:00 am - 4:00 pm
- Where: Embassy Suites - San Marcos

Other useful information:

- List of Projects (see the sidebar)
- Detailed Logistics
- Final Schedule

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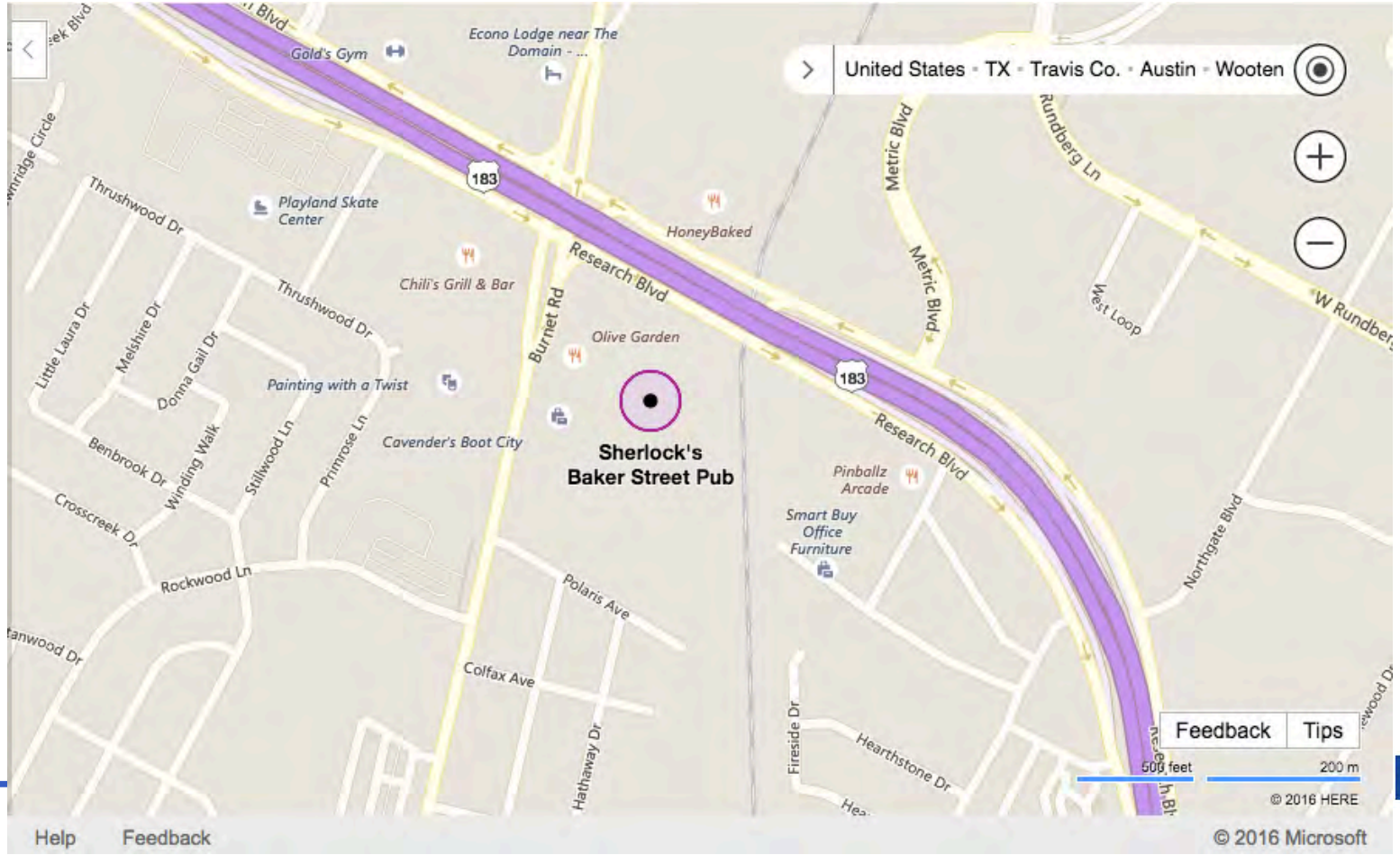
# Upcoming Events

# December 14, 2016

## HiTech Happy Hour
## @ The Sherlock's Pub
## 9012 Research Blvd
## 5-7 PM



# Upcoming Events

## December 15, 2016
## AT&T Labs

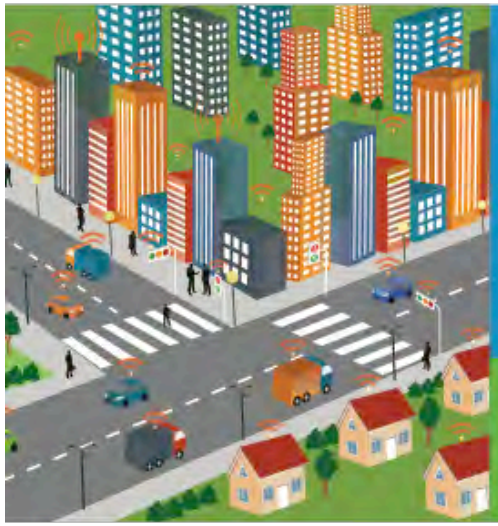
### Invited Special Guest:
### Mr. Roger Fuji,
### 2016 IEEE Computer Society President

FREE EVENT!

Special IEEE Computer Society Austin Chapter Event

# TRUSTED AUTOMATED VEHICLES

*Presented by Professor Todd E. Humphreys, Associate Professor, Department of Aerospace Engineering and Engineering Mechanics, University of Texas at Austin*



**Get an inside view on reliable automated vehical localization despite poor weather, dense urban environments and sensor deception, including GPS/ GNSS, radar, and V2V sensing.**

**15 December 2016 | 6:00 – 8:00 pm**
**AT&T Labs | Austin, TX**
*6:00 pm — networking and reception | 6:30 pm — presentation*

The next few decades will see automated vehicles become critical to the world economy. But daunting challenges exist that must be overcome to ensure trustworthy operation: even under fairly benign conditions, it has proven difficult to guarantee that automated vehicles can be trusted to locate themselves accurately and to avoid obstacles. In adverse weather or—worse yet—under a deliberate sensory attack, the difficulty is greatly magnified. How can automated vehicles reliably operate when facing both outliers and outlaws, both faults and fraud?

**FREE EVENT — REGISTER TODAY!**
tinyurl.com/IEEECSAustin

IEEE computer society

Todd E. Humphreys is an associate professor in the Department of Aerospace Engineering and Engineering Mechanics at the University of Texas at Austin and director of the UT Radionavigation Laboratory. He received a B.S. and M.S. in Electrical and Computer Engineering from Utah State University and a Ph.D. in Aerospace Engineering from Cornell University. He specializes in the application of optimal detection and estimation techniques to problems in satellite navigation, automated systems, and signal processing. His recent focus has been on secure perception for automated systems, including navigation, timing, and collision avoidance, and on centimeter-accurate location for the mass market. Dr. Humphreys received the University of Texas Regents' Outstanding Teaching Award in 2012, the National Science Foundation CAREER Award in 2015, and the Institute of Navigation Thurlow Award in 2015.

# Upcoming Events

## 2017
## EMBS - Austin

The IEEE Engineering in Medicine and Biology Society (EMBS) is the world's largest international society of biomedical engineers. The organization's 11,000 members reside in some 97 countries around the world. EMBS provides its members with access to the people, practices, information, ideas and opinions that are shaping one of the fastest growing fields in science.

### Society Partners

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# Conclusion

## I. Critical Success Factors

- It is about SERVICE
- Relationship building
- Differentiated Value Proposition in the midst of technology evolution and greater enterprise expectation
- Collaboration creates greater impact

## II. Short-term Challenges

- Officers commitment and training
- Speakers and attendance
- Improved tools & connectivity (vtools/SAMIEEE/Budget Plan)

## III. Long-term Challenges

- Convergence creates many gray/overlapping topical areas among societies/chapters
- Global collaboration among chapters/events

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# Thank You

F.Behmann@ieee.org

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