ComSoc Austin Chapter
Outstanding Chapter Report

Fawzi Behmann

December 3, 2016
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
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)
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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:

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<td>Liberty Mutual (US)</td>
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<td>International Insurance</td>
<td>Travelers (US)</td>
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<td>India Medical Insurance</td>
<td>The Personal (Canada)</td>
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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.

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

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<th>Dell products for the home and office</th>
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Home and Office Discounts
Save on your shipping needs with UPS. Sign in with your IEEE Account to take advantage of this member discount.

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<th>UPS Shipping</th>
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<td>Available in the US and Canada</td>
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IEEE Over 400,000 members
Supported by ~ 40 societies Across 10 Regions

IEEE ComSoc
212 Chapters worldwide

Central Texas (Austin) Chapter
Was Awarded
2015 Chapter of the Year Award
and
2015 Chapter Achievement 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
- Distinguished Lecturer program
- COMSOC/SP Website http://sites.ieee.org/ct-comsp/
- Community/Industry/University Outreach – IEEE Collaboratec 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
IEEE Central Texas Austin Communications / Signal Processing Joint Chapter

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

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

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
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
IEEE Austin COMSOC/SP Joint Chapter

Thanks to the support of

[AT&T Logo]
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 “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.
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
  • IEEE 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
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

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.

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
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

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<th>Startup Inspiration</th>
<th>The Bigger Picture</th>
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<td>Angel Investor Pitch bootcamp</td>
<td>Ryan Lund, <em>Ceribri AI</em></td>
<td>Tiana Laurance, <em>Factom</em></td>
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<tr>
<td>Hall Martin, <em>Texas Entrepreneurs Networks</em></td>
<td>Kevin Koym, <em>Tech Ranch</em></td>
<td>Ted Lehr, Data Architect, <em>City of Austin</em></td>
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<tr>
<td>Solo-preneurship workshop</td>
<td>Ben Deda, <em>Galvanize Austin</em></td>
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http://n3xt.ieee.org/attend/ieee-n3xt-austin-2016/  Registration now open
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
October 4, 2016

Let the celebrations begin.
TWS 2016: Communication, Sensing, and Data Analytics for Automated Vehicles

http://texaswirelesssummit.org

2016 Sponsors

Blanton Museum of Art
Edgar Smith Auditorium
200 E Martin Luther King Jr. Blvd
Austin, Texas 78701
Bridging the Gap from Business Expectations to Technical Reality

3 November 2016 | Austin, TX

Special Thanks to Our Sponsors

ROCK STARS OF BIG DATA

IEEE Big Data

Zilliant

Cloudera

The University of Texas at Austin

Business Analytics
Dec. 1, 2016
DL Dr. Anthony Chan,
Huawei
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
December 14, 2016

HiTech Happy Hour
@ The Sherlock's Pub
9012 Research Blvd
5-7 PM
December 15, 2016
AT&T Labs

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

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

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 Radiosnavigation 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.
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
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
Thank You

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