



**IEEE Central Texas Section  
2023 Summer/Fall Leadership Planning Meeting  
January 21, 2023  
San Marcos, TX & Virtual**

Section Committee/Officer Name: Fawzi Behmann

Chapter/Affinity Name: CTS Joint ComSoc & SP & CTSoc  
and CTS Joint Computer & EMBS

# 2023 Vision, Leadership Team

## Organizational Unit (OU) Name:

Comm/Sig Proc./ConsumerTech (COM19/SP01/CE08)  
Computer & EMBS (C16/EMB18)

## Vision/Objectives/2022 Focused Initiatives\*

seek to be the inclusive organization of choice relevant to the Central Texas professional community in **providing education, reaching out and networking** for members and outreach professional community.

**Theme:** Smart Ecosystems empowered by enabling technologies (such as 5G/6G, IoT/Edge Computing, Cloud/AI, Security/Blockchain) driving smart networking solutions and innovative use cases.

## Deliverables:

- Hold monthly high-quality technical meeting with relevant topics given by domain experts
- Leverage Distinguished Lecturer/Speaker and multihost feature to expand coverage
- Community Outreach Initiatives - Senior Design Students
- Collaboration, Education and Networking events
- Focused groups and workshops

Support: Website & eNotice/Listserv, Social media, Feedback form, Finance

# 2023 Vision, Leadership Team

## Leadership Team

### **Central Texas Austin ComSoc-SPSoc-CTSoc Joint Chapter**

Chair – Fawzi Behmann

Vice Chair – Norma Antunano

Secretary/Program logistics – open

Webmaster – Nitin Garg

Treasurer – Fawzi Behmann

Membership Development – Daniel Lewis

Social Media – Frances Scott

Past Chair – Hanan Potash

### **Central Texas Austin Computer-EMBS Joint Chapter**

Chair – Fawzi Behmann

Vice Chair – Hema Ramaswamy

Secretary/Program logistics – open

Webmaster – Nitin Garg

Treasurer – Hema Ramaswamy

Membership Development – Open

# OU Joint Chapter Size and Profile

	<b>(1)</b>	<b>(2)</b>	<b>(TTL)</b>	<b>(ComSoc)</b>
	<b>207</b>	<b>501</b>	<b>665</b>	<b>149</b>
<b>Student</b>	<b>6</b>	<b>12</b>	<b>16</b>	<b>4</b>
<b>Graduate Student Member</b>	<b>17</b>	<b>21</b>	<b>35</b>	<b>13</b>
<b>Member</b>	<b>97</b>	<b>237</b>	<b>313</b>	<b>63</b>
<b>Senior Member</b>	<b>41</b>	<b>66</b>	<b>100</b>	<b>31</b>
<b>Fellow</b>	<b>12</b>	<b>16</b>	<b>27</b>	<b>9</b>
<b>Life Fellow</b>	<b>3</b>	<b>6</b>	<b>8</b>	<b>2</b>
<b>Life Member</b>	<b>17</b>	<b>65</b>	<b>77</b>	<b>15</b>
<b>Life Senior</b>	<b>13</b>	<b>34</b>	<b>44</b>	<b>11</b>
<b>Affiliate</b>	<b>1</b>	<b>41</b>	<b>42</b>	<b>1</b>
<b>Associate Member</b>		<b>3</b>	<b>3</b>	

(1) Central Texas. Sect Jt. Chap, Com19/SP01/CT08 Austin

(2) Central Texas Section Chapter, C16/EMB18 Austin

(TTL) Com19/SP01/CT08 + C16/EMB18 Austin

(ComSoc) IEEE Communications Society

# 2022 - Summary of Meetings (vTools)

<b>ComSoc/SPS/CTSoc</b>			
<b>2022 Meetings</b>	<b>32</b>	<b>(2 Admin, 1 Prof., 29 Tech),</b>	<b>VDL 18 DLT 1</b>
Jan	1	"5G/6G Enable Edge Computing and Edge AI"	
Feb	1	"Advancement of Technology Unleash Great Opportunities for Students, How can IEEE help?"	
Mar	1	"Integration of Terrestrial Networks and Extreme Environments: Challenges and Capabilities"	
May	4	"Big Data Privacy", "Deep & Reinforcement Learning in 5G/6G", "WCNC 2022 Key messages", Admin	
Jun	2	"Future of smart ecosystem", "NEXT G Summit"	
Jul	4	"Advanced Satellite Networking and IoT Applications"	
Aug	2	"Q-carbon as a Field Emission Electron Source", "Development of Emotion Recognition with ML Techniques"	
Sep	7	"WIFI Sensing", "V2X for Intelligent Transportation", "Wireless Nano-bio Comm", "IoT Applic & Security"	
		"Building safe Smart Cities & Communities", "AI-based zero Energy in Comm 6G", "Engineering Leadership"	
Oct	5	"Connecting Space Asset to Internet - IEEE Day", "Rise of Quantum Internet", "Intro OOSEM & SysML Course"	
Nov	2	"Spectrum Sharing", "AI in 6G"	
Dec	3	"Algorithms & protocols joint comm", "New Optics in the next 5-10 years", "Full Duplex Distributing Comm"	
<b>Computer/EMB</b>			
<b>2022 Meetings</b>	<b>18</b>	<b>(2 Admin, 1 Prof., 15 Tech),</b>	<b>VDL 10 DLT 1</b>
Jan	1	"5G/6G Enable Edge Computing and Edge AI"	
Feb	1	"Advancement of Technology Unleash Great Opportunities for Students, How can IEEE help?"	
May	2	"Deep & Reinforcement Learning in 5G/6G", "WCNC 2022 Key messages", Admin	
Jun	1	"Future of smart ecosystem"	
Jul	1	"Advanced Satellite Networking and IoT Applications"	
Aug	2	"Q-carbon as a Field Emission Electron Source", "Development of Emotion Recognition with ML Techniques"	
Sep	5	"V2X for Intelligent Transportation", "Wireless Nano-bio Comm", "IoT Applic & Security"	
		"AI-based zero Energy in Comm 6G", "Engineering Leadership"	
Oct	4	"Connecting Space Asset to Internet - IEEE Day", "Rise of Quantum Internet", "Intro OOSEM & SysML Course"	
Dec	1	"Full Duplex Distributing Comm"	

# 2022 Other Activities/Events

## **General Chair WCNC 2022 (April 10-13, Austin) - Sponsored with ComSoc, CTS and Lonestar International Conference – Hybrid format:**

4-day conference, 832 in attendance from 46 countries, 21 sponsors & supporters, rich industry & technical program (361 papers published via IEEE (eXplore) and social/appreciation functions: 9 Keynote speakers, 2 Executive forum Sessions, Dialog with Industry leaders, 13 Industry panel sessions, 7 industry presentations, Startup Forum, 12 tutorials, 13 workshops, 17 technical sessions, WIE, and Welcoming reception, Dialogue with Industry Wine & Cheese reception VIP/OC Appreciation Dinner, Conference Banquet networking opportunities, virtual/physical Industry Exhibits. <https://wcnc2022.ieee-wcnc.org>

## **IEEE Day**

Full day, supported by Texas State and UT Austin campuses and other chapters. Hosted lecture to faculty & students, Booth, touring lab facilities, address members and local community.

## **Leveraged virtual DL Program and increased coverage collaborating with other chapters/regions using vTools host capability**

## **Outreach: Organize and chair multiple Industry panels:**

Future Networks Forum (October 12-14), GET Blockchain (Nov 9-12), Globecom 2022 (Dec. 4-8)

## **Represent chapter, society at key events/functions.**

Example: Mobile World Congress (May, Las Vegas), Addressed Eta Kappa Nu graduating class (June - Virtual), Conference Committee & Meeting Series (Nov – Vancouver), ComSoc GCCC – Global Chapter Chair Community (December, Brazil)

# 2023 Chapter Vitality & Help Needed

## Chapter Vitality Assessment (Strong, Ok, Need Improvement)

Despite restriction caused by Pandemic, strived to reach out through Zoom and hybrid and some in-person focused activities:

- Collaboration with societies, section, other chapters on key events.
- Leveraged Distinguished Lecture Program, offering diverse & relevant topics given by domain expert speakers
- Diverse Activities & great volunteer efforts: Conference, Workshop, Technical talks, Webinars/Tutorial, social events

## Top Help Needed/Issues for 2023

Identify alternate Meeting Space: AT&T longtime supporter is not ready to provide use of their facilities.

Volunteers – open positions and support key initiatives

## Plans for 2023?

Host special recruitment events for students and development of student branch chapter.

Organize events/summits engaging Industry, Academia, YP/WIE/STEM

Organize education/training/social/appreciation events jointly with other chapters/section

# 2022 Meetings (vTools) – ComSoc/SPSoc/CTSoc

Seq	Event Title	Event Date
1	VDL talk on "5G/6G ENABLE EDGE COMPUTING AND EDGE AI"	1/19/22 18:00
2	VDL talk on "Advancement of Technology Unleash Great Opportunities for Students ,Ài How can IEEE help?"	2/15/22 19:00
3	IEEE ComSoc NY Chapter "Integration of Terrestrial Networks and Extreme Environments: Challenges and Capabilities"	3/29/22 19:00
4	ComSoc/SP/CT and Computer/EMBS Chapter - Membership Development Officer Meeting / Planning	5/4/22 10:55
5	Big Data Privacy: from Networking and Artificial Intelligence Perspectives - Distinguished Lecture	5/24/22 18:00
6	Deep and Reinforcement Learning in 5G and 6G	5/26/22 17:45
7	VDL talk on ,"WCNC 2022 Key Messages and Best of Practices"	5/26/22 18:00
8	VDL talk on ,"The Future of smart ecosystem empowered by IoT Collaborative Technologies"	6/10/22 12:00
9	First IEEE Next G Summit 2022 (Hybrid)	6/14/22 9:00
10	VDL talk on " Advanced Satellite Networking and IoT Applications " -1	7/27/22 12:00
11	VDL talk on " Advanced Satellite Networking and IoT Applications" -2	7/27/22 12:00
12	VDL talk on " Advanced Satellite Networking and IoT Applications " -3	7/27/22 12:00
13	VDL talk on " Advanced Satellite Networking and IoT Applications " -4	7/27/22 12:00
14	Chapter Leadership Planning Meeting	8/23/22 19:00
15	Special Double Feature Presentations "Q-carbon as a Field Emission Electron Source" & "Development of Emotion Recognition with ML Techniques and Challenges"	8/25/22 18:00
16	Introduction to Wi-Fi Sensing and the IEEE 802.11bf Standard	9/7/22 17:00
17	VDL: Reliable and Scalable Vehicle-to-Everything (V2X) Protocol Design for Intelligent Transportation	9/13/22 13:00
18	VDL-" Wireless Nano-Bio Communication Networks enabled by Optogenomic Interfaces"; ComSoc Week, Webinar#1 of 2	9/15/22 11:00
19	Internet of Things: Applications, Enablers, Security	9/15/22 18:00
20	VDL- ,ÀiCognitive Approach to Building a Safe and Smart Cities/Societies" ComSoc Week, Webinar #2 of 2	9/17/22 11:00
21	VDL talk on "AI Based Zero Energy Communication in 6G"	9/21/22 12:00
22	Engineering Leadership: How to Drive your Team to Deliver Products without Driving them Nuts!	9/21/22 18:30
23	IEEE Day - DL Prof. Atiquzzaman on "Connecting Space Assets to the Internet: Challenges and Solutions"	10/4/22 11:30
24	IEEE Day - Networking Opportunity with DL Prof. Atiquzzaman at UT EER Booth	10/4/22 13:55
25	IEEE Day - DL Prof. Atiquzzaman on "Connecting Space Assets to the Internet: Challenges and Solutions"	10/4/22 17:30
26	VDL talk on "The rise of the Quantum Internet: From No-Cloning to Teleportation"	10/20/22 10:00
27	Sat 10-22-2022 9-5 INTRO OOSEM & SysML Course	10/22/22 9:00
28	VDL: Generative Adversarial Networks for Spectrum Sharing	11/2/22 16:00
29	VDL: AI in 6G Networks - Path from Enabler to AI Native Air Interface	11/11/22 15:30
30	Algorithms & protocols joint coms, localization, sensing by Dr. George Alexandropoulos	12/8/22 10:00
31	IEEE BV-COMSOC Talk: Perspective of pluggables vs. CPO for new optics in next 5-10 years	12/8/22 18:30
32	IEEE Future Networks Distinguished Lecture Series: Full-Duplex Distributed Integrated Sensing and Communications	12/20/22 11:00



# 2022 Meetings (vTools) – Computer Soc/EMBS

## Meetings Held/Reported in vTools (month, topic,):

SEQ	Event Title	Event Date
1	VDL talk on "5G/6G ENABLE EDGE COMPUTING AND EDGE AI"	1/19/22 18:0
2	VDL talk on "Advancement of Technology Unleash Great Opportunities for Students " How can IEEE help?"	2/15/22 19:0
3	Deep and Reinforcement Learning in 5G and 6G : Virginia Mountain Section	5/26/22 17:4
4	VDL talk on ,WCNC 2022 Key Messages and Best of Practices	5/26/22 18:0
5	VDL talk on ,"The Future of smart ecosystem empowered by IoT Collaborative Technologies"	6/10/22 12:0
6	VDL talk on " Advanced Satellite Networking and IoT Applications "	7/27/22 12:0
7	Chapter Leadership Planning Meeting	8/23/22 19:0
8	Special Double Feature Presentations "Q-carbon as a Field Emission Electron Source" & "Development of Emotion Recognition with ML Techniques and Challenges"	8/25/22 18:0
9	VDL: Reliable and Scalable Vehicle-to-Everything (V2X) Protocol Design for Intelligent Transportation	9/13/22 13:0
10	VDL-" Wireless Nano-Bio Communication Networks enabled by Optogenomic Interfaces"; ComSoc Week, Webinar#1 of 2	9/15/22 11:0
11	VDL- ,ÄÜCognitive Approach to Building a Safe and Smart Cities/Societies,ÄÙ; ComSoc Week, Webinar #2 of 2	9/17/22 11:0
12	VDL talk on "AI Based Zero Energy Communication in 6G"	9/21/22 12:0
13	Engineering Leadership: How to Drive your Team to Deliver Products without Driving them Nuts!	9/21/22 18:3
14	IEEE Day - DL Prof. Atiquzzaman on "Connecting Space Assets to the Internet: Challenges and Solutions"	10/4/22 11:3
15	IEEE Day - Networking Opportunity with DL Prof. Atiquzzaman at UT EER Booth	10/4/22 13:5
16	IEEE Day - DL Prof. Atiquzzaman on "Connecting Space Assets to the Internet: Challenges and Solutions"	10/4/22 17:3
17	VDL talk on "The rise of the Quantum Internet: From No-Cloning to Teleportation"	10/20/22 10:0
18	IEEE Future Networks Distinguished Lecture Series: Full-Duplex Distributed Integrated Sensing and Communications	12/20/22 11:0