

**IEEE VEHICULAR TECHNOLOGY SOCIETY**  
**Election of Members to the Board of Governors**  
**For a Three-Year Term 1 January 2023 – 31 December 2025**

**GERHARD BAUCH** (S'99-AM'01-M'03-SM'05-F'15)

**Biography:** I received the Dipl.-Ing. and Dr.-Ing. degree in Electrical Engineering from Munich University of Technology (TUM) in 1995 and 2001, respectively, and the Diplom-Volkswirt (master in economics) degree from FernUniversitaet Hagen in 2001.

In 1996, I was with the German Aerospace Center (DLR), Oberpfaffenhofen, Germany. From 1996-2001 I was member of scientific staff at Munich University of Technology (TUM). In 1998 and 1999 I was also visiting researcher at AT&T Labs Research, Florham Park, NJ, USA. In 2002 I joined DOCOMO Euro-Labs, Munich, Germany, where I have been managing the Advanced Radio Transmission Group. In 2007 I was additionally appointed Research Fellow of DOCOMO Euro-Labs. From 2003-2008 I was an adjunct professor at Munich University of Technology. In 2007 I was a visiting professor teaching courses at the University of Udine in Italy and at the Alpen-Adria-University Klagenfurt in Austria. I was a full professor at the Universität der Bundeswehr Munich from 2009-2012. Since October 2012 I am the head of the Institute of Communications at Hamburg University of Technology.

I received best paper awards of the European Personal Mobile Communications Conference (EPMCC) 1997, Globecom 2008 and 2009 and the IEEE International Conference on Communications (ICC) 2009 and 2022, the Texas Instruments Award of TUM 2001, the award of the German Information Technology Society (ITG in VDE) 2002 (ITG Foerderpreis) and the literature award of the German Information.

Technology Society (ITG in VDE) 2007 (ITG-Preis). I am also a member of the German Information Technology Society (ITG in VDE (Association for Electrical, Electronic & Information Technologies)) where I served as chairman of the committee "Information and System Theory" 2015/2016 and am currently serving on the board of directors. I was elected to the review board of the German Research Foundation (DFG) 2020-2022.

**COMMITTEES/BOARDS:**

- VP Mobile Radio of the IEEE Vehicular Technology Society 2022
- Member of the IEEE Vehicular Technology Society Synergy Ad Hoc Committee
- Elected member of the IEEE Vehicular Technology Society Board of Governors 2019-2021
- Chair of IEEE Communications Society German chapter since 2013
- Vice Chair (2015-2016) and Chair (2017-2018) of the IEEE Information Theory Society German Chapter
- Member of IEEE Vehicular Technology Society Fellow Evaluation Committee 2016-2020 (chair 2019-2020), 2022
- Member of IEEE Vehicular Technology Society Awards Committee since 2018
- Member of IEEE Vehicular Technology Society Distinguished Lecturers Selection Committee 2016-2019
- Editor for IEEE Transactions on Vehicular Technology 2008-2013
- Area Editor "Wireless Communications" for IEEE Transactions on Vehicular Technology 2014-2018
- Associate editor for IEEE Transactions on Communications 2009-2016

**REGIONS:**

- Region 8 (Europe, Middle East, and Africa)

**SECTIONS/CHAPTERS:**

- German Chapter

**SOCIETY:**

- IEEE Vehicular Technology Society
- IEEE Communications Society

**CONFERENCES:**

- TPC Track-Co-Chair of
  - IEEE Vehicular Technology Conference (VTC Spring), Budapest, Hungary, May 2011
  - IEEE Vehicular Technology Conference (VTC Fall), Quebec City, Canada, September 2012
  - IEEE Vehicular Technology Conference (VTC Fall), Chicago, USA, August 2018
- Keynotes Chair of
  - IEEE International Conference on Communications (ICC), Budapest, Hungary, June 2013
- Plenary Chair of
  - European Signal Processing Conference (EUSIPCO), Budapest, Hungary, 2016
- Workshops Chair of
  - IEEE Vehicular Technology Conference (VTC Fall), 2019

- Tutorials Chair of
  - IEEE Vehicular Technology Conference (VTC Fall), 2020
- General (Co-) Chair of
  - International Conference on Systems, Communications and Coding (SCC), Munich, Germany, January 2013
  - International Conference on Systems, Communications and Coding (SCC), Hamburg, Germany, February 2015
  - International Conference on Systems, Communications and Coding (SCC), Hamburg, Germany, February 2017
  - Workshop on Smart Antennas (WSA), Hamburg, Germany, February 2020
  - Technology Trials and Proof-of-Concept Activities for 5G and Beyond (TPoC5G) Workshop in conjunction with the IEEE Vehicular Technology Conference (VTC Spring), Sydney, Australia, June 2017
  - Technology Trials and Proof-of-Concept Activities for 5G and Beyond (TPoC5G) Workshop in conjunction with the IEEE Vehicular Technology Conference (VTC Spring), Porto, Portugal, June 2018
- TPC member of numerous international conferences

#### **OTHER:**

- IEEE Fellow 2015
- Distinguished lecturer of the IEEE Vehicular Technology Society 2011-2015

#### **QUALIFICATIONS:**

I have volunteered in a number of IEEE activities and committees as pointed out above. Therefore, I believe that this is a good basis to bring forward society activities.

#### **MAJOR ACCOMPLISHMENTS:**

- As member of the German Information Technology Society (ITG in VDE) and IEEE German Society Chapter Chair, I have contributed to establish the IEEE co-sponsored International Conference on Systems, Communications and Coding (SCC) as a small but high-quality conference in Europe which is appreciated and attended by world class researchers from all over the world.
- As one of the first employees of DOCOMO Euro-Labs, I have contributed to the scientific set-up and establishment of the lab.
- I tried to contribute to a fair, substantial, and timely review process as editor and area editor of the IEEE Transactions on Vehicular Technology and the IEEE Transactions on Communications.
- As member and chair of the VTS fellow evaluation committee, I tried to support our society members being elevated to fellow. Moreover, I contributed to the establishment of a fellow nomination mentoring program in VTS.
- AS VTS VP Mobile Radio, I am working towards establishing important upcoming technology as part of the VTS field of expertise.

**Statement:** In my first term as member of the VTS board of governors, I mainly contributed in committees such as the fellow evaluation committee, the awards committee and the distinguished lecturers evaluation committee. I tried to support a fair and efficient recognition of our society members. A particular focus was on finding a good balance and dedicated recognition within the wide range of different achievement categories ranging from researchers, educators up to practitioners and technical leaders.

As VTS VP Mobile Radio, I am trying to strengthen VTS as a key society for wireless technology and to incorporate important upcoming technologies in the VTS fields of interest, e.g. by supporting and initiating new technical committees and by supporting networking among technical committees.

The above-mentioned aspects would also be targets for my future service to VTS.

Moreover, I believe that worthwhile targets are preserving and strengthening a high technical and scientific standard of our conferences and publications as well as support of more regional VTS activities possibly in cooperation with regional organizations.

#### **ALVIN CHIN (M'99-S'02-M'09-SM'19)**

**Biography:** Dr. Alvin Chin is AI and Emerging Technology Researcher at BMW Tech Office USA, Silicon Valley where he works on innovation and research topics for BMW that use AI and emerging technologies like causal machine learning, neuromorphic and quantum computing. Previously, he was Senior Researcher in Machine Learning at BMW Technology Corporation, Chicago where he worked on big data and machine learning for improving driving behavior and enabling intelligent driving. His current research involves applying AI to improve vehicle diagnostics, manufacturing and BMW's internal processes. Dr. Chin has authored more than 30 publications and 10 patents, including pending. He received a PhD in Computer Science from the University of Toronto, MAsc in Computer Engineering from the University of Waterloo and BAsc from the University of Waterloo. He has previously worked for Nokia Research Center, Nokia and Microsoft in Beijing, China. Dr. Chin is active in the community in data science and machine learning meetups, as member of various program committees of academic conferences, and has given more than 50 talks to universities, meetups and conferences.

## **COMMITTEES/BOARDS:**

- Chair, IEEE Vehicular Technology Society Industrials Engagement Committee – January 2021 to present
- Secretary, Technical Committee of IEEE Vehicular Technology Society Standard on Connected and Automated Vehicles, IEEE Standards Association - January 2020 to present
- Member of Editorial Board, IEEE Open Journal of Vehicular Technology (new journal in Fall 2019) - August 2019 to present

## **SECTIONS/CHAPTERS:**

- Vice-Chair, IEEE Chicago Section, Chicago, IL, USA, January 1, 2021 – Present
- Treasurer, IEEE Chicago Section, Chicago, IL, USA, January 1, 2021 – December 31, 2021
- Chair, IEEE Chicago Section 126th Anniversary Fair, Chicago, IL, USA, March 27, 2020 – October 3, 2020
- Chair, IEEE Computer Society Chicago Chapter, Chicago, IL, USA – July 2019 to Present
- Promotions Chair, IEEE Chicago Section Fair: A Celebration of 125 Years, Illinois Institute of Technology, Chicago, IL, USA, April 27, 2019
- Chair, IEEE Vehicular Technology Society Chicago Chapter, Chicago, IL, USA – January 2018 to present
- Vice-Chair, IEEE Computer Society Chicago Chapter, Chicago, IL, USA, January 2018 – July 2019
- Executive Committee Member, IEEE Chicago Section, Chicago, IL, USA – December 2017 to Present

## **CONFERENCES:**

- Track Chair for IoT Track, The IEEE International Conference on Real-Time Communications Conference & Expo at Illinois Tech (RTC2022), Chicago, IL – January 1, 2022 – Present
- Paper reviewer, The 95th International IEEE Conference on Vehicular Technology (VTC2022-Spring), Virtual – January 1, 2022 – March 1, 2022
- Member of Advisory Committee, The IEEE International Conference on Real-Time Communications Conference & Expo at Illinois Tech (RTC2022), Chicago, IL – January 1, 2022 – Present
- Industry Panel Chair, The 94th International IEEE Conference on Vehicular Technology (VTC2021-Fall), Virtual – January 2021 – December 2021
- Member of Advisory Committee, The IEEE International Conference on Real-Time Communications Conference & Expo at Illinois Tech (RTC2021), Chicago, IL – January 1, 2021 – October 15, 2021
- Track Chair for IoT Track, The IEEE International Conference on Real-Time Communications Conference & Expo at Illinois Tech (RTC2021), Chicago, IL – January 1, 2021 – October 15, 2021
- Paper reviewer, The 93rd International IEEE Conference on Vehicular Technology (VTC2021-Spring), Virtual – December 1, 2020 – January 31, 2021
- Publicity Co-Chair, The 92nd International IEEE Conference on Vehicular Technology (VTC2020-Fall), Victoria, Canada – January 2020 to November 2020
- Keynote Sessions Chair, Connected and Autonomous Vehicles, The 90th International IEEE Conference on Vehicular Technology (VTC2019-Fall), Hawaii, USA - September 25, 2019
- Industry Sessions Co-Chair, The 90th International IEEE Conference on Vehicular Technology (VTC2019-Fall), Hawaii, USA - September 22 to 25, 2019
- Program Committee Member, Track 10: Vehicular Communications, Networks and Telematics, The 89th International IEEE Conference on Vehicular Technology (VTC 2019-Spring), Kuala Lumpur, Malaysia -April 28 to May 1, 2019
- Program Committee Member, IEEE Connected and Autonomous Vehicles Symposium (CAVS 2018), The 88th International IEEE Conference on Vehicular Technology (VTC-2018-Fall), Chicago, IL, USA - August 27 to 30, 2018
- Industry Track Co-Chair, The 88th International IEEE Conference on Vehicular Technology (VTC-2018-Fall), Chicago, IL, USA, August 27-30, 2018
- Panel Organizer, Autonomous, Connected and Electric Vehicles industry panel, The 88th International IEEE Conference on Vehicular Technology (VTC-2018-Fall), Chicago, IL, USA, August 27-30, 2018
- Panelist, Panel on Smart Cities, The 86th International IEEE Conference on Vehicular Technology (VTC-2017-Fall), Toronto, ON, Canada, Sept. 24 to 27, 2017
- Program Committee Member, 3rd IEEE International Conference on Internet of People (IoP), San Francisco Bay Area, August 4-8, 2017
- Technical Program Committee Member, 10th IEEE International Conference on Cyber, Physical and Social Computing (CPSCom-2017), Exeter, UK, June 21-23, 2017
- Track Co-chair, Track #7: Mobile Network Applications and Services, 2017 IEEE 85th Vehicular Technology Conference, Sydney, Australia, June 4-7, 2017
- Program Committee Member, The 9th IEEE International Conference on Cyber, Physical and Social Computing, (CPSCom 2016), Chengdu, China, December 15-18, 2016
- Workshop Program Committee Member, The First International Workshop on Crowd Intelligence for Smart Cities: Technology and Applications (CISC 2016), IEEE Ubiquitous and Intelligent Computing Conference (UIC 2016), Toulouse, France, Jul. 18, 2016
- General Co-Chair, The 2nd IEEE International Conference on Internet of People (IoP 2016), Toulouse, France, Jul. 18-21, 2016

- General Chair, The 2015 IEEE International Conference on Cloud and Big Data (CBDCOM 2015), Beijing, China, August 2015
- Video Co-Chair, The 2015 IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2015), Beijing, China, August 2015
- Industry Track Co-Chair, The 2015 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2015), Wroclaw, Poland, August 2015
- Workshop Co-Chair, 9th IEEE International Conference on Big Data Science and Engineering (BigDataSE 2015), Helsinki, Finland, August 2015
- Program Chair, The 14th IEEE International Conference on Computer and Information Technology (CIT 2014). Xian, China, Sept. 11-13, 2014
- Steering Committee Member, IEEE Cyber, Physical and Social Computing (CPSCom 2014). Taipei, Taiwan, Sept. 1-3, 2014
- Panel Co-Chair, The 2014 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2014). Beijing, China, Aug. 17-20, 2014
- Workshop Co-chair, 1st International Workshop on Mining and Understanding Big Data (BigMUD 2013), IEEE ICDM 2013 conference, Dallas, Texas, USA, Dec. 8, 2013
- General Chair, The 6th IEEE International Conference on Cyber, Physical and Social Computing (CPSCom 2013), Beijing, China, Aug. 20-23, 2013
- Workshop Co-Chair, The 3rd IEEE International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom 2013), co-located with IEEE CPSCom 2013, Beijing, China, Aug. 20, 2013
- Program Committee Member, The 3rd International Symposium on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2013), co-located with the 12th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-13), Melbourne, Australia, July 16-18, 2013
- Program Co-Chair, The 5th IEEE International Conference on Cyber, Physical and Social Computing (CPSCom 2012), Besancon, France, Nov. 20-23, 2012
- Industry Track Chair, The 13th IEEE International Conference on Mobile Data Management (MDM 2012), Bengaluru, India, July 23-26, 2012
- Program Committee Member, 2nd IEEE International Symposium on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2012), Liverpool, UK, June 25-27, 2012
- Workshop Co-Chair, The 2nd International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom 2012), co-located with IEEE ICDCS 2012, Macao, China, June 18, 2012
- Program Committee Member, IEEE International Workshop on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2011), Changsha, China, Nov. 16-18, 2011
- Workshop Co-Chair, The 1st International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom 2011), co-located with IEEE CPSCom 2011, Dalian, China, Oct. 19, 2011
- Program Vice Chair and Workshop Co-Chair, The 4th IEEE International Conference on Cyber, Physical and Social Computing (CPSCom 2011), Dalian, China, Oct. 19-22, 2011
- Industrial Liaison Chair, The 8th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2011), Banff, Canada, Sept. 2-4, 2011
- Program Vice-Chair, 3rd IEEE/ACM International Conference on Cyber, Physical and Social Computing (CPSCom 2010), Hangzhou, China, Oct. 30-Nov. 1, 2010
- Demo Co-chair, IEEE Autonomic and Trusted Computing 2010 Conference (ATC 2010), Xi'an, China, October 26-29, 2010
- Program Committee Member, IEEE Social Computing 2009, 2010, and 2011 Conference

#### **OTHER:**

- Guest Co-editor, Special Issue on Connected and Autonomous Driving, IEEE IT Professional, November/December 2018 issue – January to November 2018
- Guest Co-Editor, IEEE IT Professional, May 2016

#### **QUALIFICATIONS:**

What makes me an ideal candidate for this position is that I have been active in the IEEE Vehicular Technology Society Chicago Chapter for 4 years as Chair where I organize chapter meetings with speakers in the vehicular technology industry. I have also been active in the IEEE Vehicular Technology Conference since 2017, serving in various conference leadership roles as Panelist in 2017, Program Committee member in 2018 Spring conference, Industry Sessions Co-Chair and Industry Panel Chair for Connected and Autonomous Driving in 2018 Fall conference, Industry Sessions Co-chair and Keynote Chair for Connected and Autonomous Driving in 2019 Fall conference, and Publicity Co-chair in 2020 Fall conference. Last year, I have been appointed as Chair of the IEEE VTS Industrials Engagement Committee to help promote industry to participate in the IEEE Vehicular Technology Conference and IEEE Vehicular Technology Society. As shown from above, I have been Chair of other IEEE conference committees besides VTC. I also have leadership experience in board committees such as The Mid-America Club (a private business and social club) and my own condominium board association. I also serve as

Vice-Chair of the IEEE Chicago Chapter, Chair of the IEEE Computer Society Chicago Chapter and Secretary of the IEEE Connected and Autonomous Vehicles Standards Committee. My passion for engaging the Chicago community in IEEE Chicago from the IEEE Chicago 125th Anniversary Event as Publicity Chair, has led to IEEE Chicago appointing me to be Chair for the IEEE Chicago 126th Anniversary Event last year, and Treasurer of IEEE Chicago this year. Therefore, all these leadership positions describe above show my dedicated leadership qualities, which I believe will serve me well as a Member of the VTS Board of Governors.

### **MAJOR ACCOMPLISHMENTS:**

One major contribution that I brought to the IEEE Vehicular Technology Conference 2018-Fall in Chicago, is that I advocated for a Panel on Connected and Autonomous Vehicles to show the topics that needed to be addressed in this area, which was not addressed in previous conferences. I was made in charge of this Panel and I convinced my company, BMW, to be a sponsor of the conference, as I saw there wasn't too many automotive companies in this conference since the conference was more of an academic nature. I also was a member of the conference committee and contributed my thoughts on how to attract more industry professionals to attend this conference, which included providing a discounted one-day pass to them. Second, I was looking to join the IEEE Vehicular Technology Society Chicago Chapter, but discovered that this chapter had dissolved, as there was no one that wanted to lead the Chapter. Thus, I volunteered to become the Chair of this chapter, and the chapter was revived 2 years ago and has been successful with at least 4 meetings per year, along with being able to get successful funding from the IEEE VTS Chapters Chair. Third, while I was working for Nokia Research Center, I contributed to creating a new team and research area for Mobile Social Networking after recommending this type of research area by writing a technical report and proposal which was read by the Director of the Nokia Research Center lab in Beijing. The Director decided to create the Mobile Social Networking Team and made me the Project Lead for a mobile social networking project which was Nokia Find & Connect, an application used for conferences and meetings for connecting with people. This contributed to Nokia with the publication of 1 patent and 10 research papers.

**Statement:** If I am selected for this position, I would like to have a plan to involve more industry professionals in the automotive industry and vehicular technology industry to be in the IEEE Vehicular Technology Society. This would be achieved by providing industry professionals a discounted IEEE VTS membership and have them be involved in IEEE VTS standards activities as well as involvement in the IEEE VTS conferences. As well, companies in the industry would have the opportunity at a conference discount, to be a sponsor or have a booth showcasing their products as well as being able to provide recruiting activities to the many students who are looking for career opportunities during these conferences. I would also propose having a separate industry track in the IEEE VTC conferences to allow industry researchers and industry professionals to submit papers in this area, where they wouldn't submit before because the tracks were more of an academic and theoretical nature.

### **J. R. CRUZ (S'75-M'79-SM'85-F'01-LF'18)**

**Biography:** received the B.S. degree from the University of Porto, Portugal, and the M.S. and Ph.D. degrees from the University of Houston, Texas, in 1974, 1977 and 1980, respectively, all in electrical engineering. He was a Fulbright Fellow from 1975-1980. He has held positions with Computer Sciences Corporation at the NASA Johnson Space Center, and Motorola, prior to joining The University of Oklahoma, where he is currently the Director of the School of Electrical and Computer Engineering and the holder of the Tilley Chair in Electrical Engineering. He is an IEEE Life Fellow, a Fellow of the Radio Club of America, a former Editor-in-Chief of the IEEE Transactions on Vehicular Technology, and the recipient of the 1995 Outstanding Service Award from the IEEE Vehicular Technology Society, the IEEE Third Millennium Medal, and the IEEE Stuart Meyer Memorial Award. He has been named an Eminent Engineer by the Tau Beta Pi National Engineering Honor Society and is the 2014 recipient of the Armstrong Medal for "important contributions to radio art and science." Prof. Cruz is a former Chairman of the Research Council of The University of Oklahoma, and a Past President of the IEEE Vehicular Technology Society.

### **COMMITTEES/BOARDS:**

- IEEE Technical Activities Board, (2001, 2002).
- IEEE Society President's Forum, (2001, 2002).
- IEEE Wireless Working Group, (2001).
- Vice-President Conferences, IEEE Vehicular Technology Society, (2011-2022).

### **SOCIETY:**

- President, IEEE Vehicular Technology Society, (2001, 2002).
- Vice-President Conferences, IEEE Vehicular Technology Society, (2011-2022).
- Editor, IEEE Transactions on Magnetics, (2006-present).
- Editor-in-Chief, IEEE Transactions on Vehicular Technology, (1995-2000).
- Senior Editor, Communications, IEEE Vehicular Technology Society Newsletter, (1984-1997)

## **CONFERENCES:**

- Finance Chair, IEEE Vehicular Technology Conference (VTC-Spring), Glasgow, Scotland, (2015).
- Finance Chair, IEEE Vehicular Technology Conference (VTC-Fall), Boston, MA, (2015).
- Advisory Board, International Symposium on Earth-Science Challenges, Norman, OK, (2015).
- Finance Chair, IEEE Vehicular Power and Propulsion Conference (VPPC), Montreal, Canada, (2015).
- Opening Session Chair, IEEE Vehicular Power and Propulsion Conference (VPPC), Montreal, Canada, (2015).
- Technical Program Committee, Data Storage, IEEE Global Communications Conference (GLOBECOM), San Diego, CA, (2015).
- Technical Program Committee, Data Storage, IEEE Global Communications Conference (GLOBECOM), Washington, DC, (2016).
- Finance Chair, IEEE Vehicular Technology Conference (VTC-Spring), Nanjing, China, (2016).
- Finance Chair, IEEE Vehicular Technology Conference (VTC-Fall), Montreal, Canada, (2016).
- Finance Chair, IEEE Vehicular Power and Propulsion Conference (VPPC), Hangzhou, China, (2016).
- Finance Chair, IEEE Vehicular Technology Conference (VTC-Spring), Sydney, Australia, (2017).
- Finance Chair, IEEE Vehicular Technology Conference (VTC-Fall), Toronto, Canada, (2017)
- Finance Chair, IEEE Vehicular Power and Propulsion Conference (VPPC), Belfort, France, (2017).
- Technical Program Committee, Data Storage, IEEE Global Communications Conference (GLOBECOM), Singapore, (2017).
- Technical Program Committee, Data Storage, IEEE International Conference on Communications (ICC), Kansas City, MO, (2018).
- General Chair, IEEE Vehicular Technology Conference (VTC-Spring), Porto, Portugal, (2018).
- Finance Chair, IEEE Vehicular Technology Conference (VTC-Fall), Chicago, IL, (2018)
- Finance Chair, IEEE Vehicular Power and Propulsion Conference (VPPC), Chicago, IL, (2018).

## **QUALIFICATIONS:**

My experience and familiarity with the Society's challenges and opportunities combined with my willingness to invest the time and energy to tackle these challenges qualify me for this position.

## **MAJOR ACCOMPLISHMENTS:**

My three major accomplishments within VTS are: 1. Lead the Society as its President (2001-2002) through some of the most challenging financial, economic, and political events of recent times; 2. Responsible as the Editor-in-Chief of the Transactions (1995-2000) for making it a leading journal in the worldwide wireless revolution; 3. Successfully managing all Society's conferences as its Vice-President Conferences (2011-2022), particularly during the Covid-19 period with all its unprecedented challenges.

**Statement:** If elected, I will focus my energy and skills on bringing VTS conferences to the next level of excellence in a post-Covid world by developing novel ways to professionally manage our conferences and by defining and expanding the quality control of all the processes that lead to technically and financially successful conferences in all our areas of interest.

## **DANIEL B. DA COSTA (GSM'07-M'09-SM'13)**

**Biography:** Dr. da Costa is currently Principal Researcher at the Technology Innovation Institute (TII), Abu Dhabi, UAE. He is Executive Editor of the IEEE Communications Letters, Area Editor of the IEEE Open Journal of the Communications Society, Area: Green, Cognitive, and Intelligent Communications and Networks, and Editor at Large of the IEEE Transactions on Communications. He is also Editor of the IEEE Wireless Communications Letters, IEEE Transactions on Vehicular Technology, and IEEE Transactions on Cognitive Communications and Networking. He has served as Lead Guest Editor and Guest Editor of several Journal Special Issues. He has been involved on the Organizing Committee of several conferences. He is currently the Latin American Chapters Coordinator of the IEEE Vehicular Technology Society.

Dr. da Costa is the recipient of four conference Paper Awards. He received several Exemplary Reviewer and Editor Certificate Awards. He is a World's Top 2% Scientist from Stanford University (2020) and has been ranked among 1% Top Scientists in the world in the broad field of Electronics and Electrical Engineering. He is a Distinguished Speaker of the IEEE Vehicular Technology Society.

More details: <https://sites.google.com/site/danielbenevides81>

## **IEEE ACTIVITIES:**

- IEEE Journal Editorial Board.
- Editor at Large, Communication Theory & Systems II, IEEE Transactions on Communications (July 2021- Present).
- Area Editor, Area: Green, Cognitive, and Intelligent Communications and Networks, IEEE Open Journal of the Communications Society (September 2019-Present).
- Executive Editor, IEEE Communications Letters (September 2019-Present).
- Associate Editor, IEEE Wireless Communications Letters (July 2021-Present).
- Editor, IEEE Transactions on Cognitive Communications and Networking (January 2019-Present).
- Editor, IEEE Transactions on Vehicular Technology (August 2012-Present).

- IEEE Transactions on Communications (September 2017-March 2021).
- Editor, IEEE Communications Surveys & Tutorials (May 2017-November 2020).
- Associate Technical Editor, IEEE Communications Magazine (January 2012-May 2020).
- Associate Editor, IEEE Access (June 2016-January 2020).
- Senior Editor, IEEE Communications Letters (March 2019-August 2019).
- Associate Editor, IEEE Communications Letters (May 2012-July 2017).

### **IEEE Guest Journal Editor**

- Guest Editor, IEEE Network, Special Issue on "Native Artificial Intelligence in Integrated Terrestrial and Non-Terrestrial Networks in 6G", 2022.
- Guest Editor, Sensors, Special Issue on "Advances in MIMO and Millimeter-Wave Sensing Communication Systems", 2021.
- Guest Editor, IEEE Transactions on Green Communications and Networking, Special Issue on "Green Communications and Computing Technologies for 6G Networks", 2021.
- Guest Editor, IEEE Transactions on Green Communications and Networking, Special Issue on "Unmanned Aerial Vehicle (UAV)-Enabled Green Communications and Networking", 2021.
- Guest Editor, IEEE Open Journal of the Communications Society, Special Issue on "Non-Orthogonal Multiple Access for 5G and Beyond", 2020.
- Lead Associate Editor, IEEE Access, Special Issue on "Advances in Statistical Channel Modeling for Future Wireless Communications Networks", 2019.
- Lead Guest Editor, IEEE Transactions on Cognitive Communications and Networking, Special Issue on "Energy-Harvesting Cognitive Radio Networks", 2018.
- Lead Associate Editor, IEEE Access, Special Issue on "Molecular Communication Networks", 2018.
- Lead Associate Editor, IEEE Access, Special Issue on "Non-Orthogonal Multiple Access for 5G Systems", 2017.
- Lead Associate Editor, IEEE Access, Special Issue on "Modelling, Analysis, and Design of 5G Ultra-Dense Networks", 2017.
- Lead Guest Editor, IEEE Access, Special Issue on "Security in Wireless Communications and Networking", 2016.
- Guest Editor, IEEE Access, Special Issue on "Deployment and Management of Small Heterogeneous Cells for 5G", 2016.

### **IEEE TPC/Track Chair**

- Track Co-Chair, Track 1: PHY and Fundamentals, IEEE Wireless Communications and Networking Conference (WCNC 2024), Dubai, UAE, April 2024.
- Symposium Co-Chair, Wireless Communications Symposium, IEEE International Conference on Communications (ICC 2023), Rome, Italy, May 2023.
- Track Co-Chair, Track 1: Physical Layer and Communication Theory, IEEE Wireless Communications and Networking Conference (WCNC 2023), Glasgow, Scotland, March 2023.
- Technical Program Vice-Chair, IEEE 95th Vehicular Technology Conference (VTC2022-Spring), Helsinki, Finland, April 2022.
- Lead Co-Chair, Cognitive Radio and AI-Enabled Networks Symposium, IEEE Global Communications Conference (GLOBECOM 2021), Madrid, Spain, 2021.
- Technical Program Vice-Chair, IEEE 93rd Vehicular Technology Conference (VTC2021-Spring), Helsinki, Finland, 25-28 April 2021.
- Lead Track Co-Chair, Track 1: PHY and Fundamentals, IEEE Wireless Communications and Networking Conference (WCNC 2021), Nanjing, China, 2021.
- Track Co-Chair, Track 7: Green Communications and Networking, IEEE 91st Vehicular Technology Conference (VTC2020-Spring), Antwerp, Belgium, 25-28 May 2020.
- Track Co-Chair, Track 1: PHY and Fundamentals, IEEE Wireless Communications and Networking Conference (WCNC 2020), Seoul, South Korea, 6-9 April 2020.
- Lead Co-Chair, Cognitive Radio and AI-Enabled Networks Symposium, IEEE Global Communications Conference (GLOBECOM 2019), Waikoloa, HI, USA, 9-13 December 2019.
- Track Co-Chair, Track 1: Antenna Systems, Propagation, and RF Design, IEEE 88th Vehicular Technology Conference (VTC2018-Fall), Chicago, USA, 27-30 August 2018.
- Track Co-Chair, Track 1: Antenna Systems, Propagation, and RF Design, IEEE 86th Vehicular Technology Conference (VTC2018-Spring), Porto, Portugal, 3-6 June 2018.
- Track Co-Chair, Track 1: Antenna Systems, Propagation, and RF Design, IEEE 85th Vehicular Technology Conference (VTC2017-Fall), Toronto, Canada, 24-27 September 2017.
- Track Co-Chair, Track: Recent Results, IEEE 85th Vehicular Technology Conference (VTC2017-Spring), Sydney, Australia, 4-7 June 2017.
- Track Chair, Track 6: Green Communications and Networks, IEEE 85th Vehicular Technology Conference (VTC2017-Spring), Sydney, Australia, 4-7 June 2017.

### **IEEE Technical Committee on Cognitive Networks (TCCN)**

- Director - TCCN Newsletter, (2019-2020).
- TCCN Vice-Chair Americas, (2019-2020).
- Feature Topic Editor, Massive Machine-Type Communications, TCCN Newsletter - December 2018.
- Feature Topic Editor, Ultra-Reliable Low-Latency Communication, TCCN Newsletter - May 2018.
- Feature Topic Editor, Non-Orthogonal Multiple Access, TCCN Newsletter - November 2017.
- Chair of the Special Interest Group "Energy-Harvesting Cognitive Radio Networks" (2017-2021).

### **IEEE Signal Processing on Computing for Communications Technical Committee (SPCC)**

Vice-Chair of the Special Interest Group on "Reconfigurable Intelligent Surfaces for Signal Processing and Communications".

### **IEEE Vehicular Technology Society**

- Latin American Chapters Coordinator (2017-Present).
- Distinguished Lecturer (2017-2019).
- Distinguished Lecturer (2019-2021).
- Distinguished Speaker (2021-Present).

### **Workshop/Special Session Organizations**

- Organizer: Workshop on Holographic MIMO Communications, IEEE Global Communications Conference (GLOBECOM 2022), Rio de Janeiro, Brazil, December 2022.
- Organizer: Special Session on 6G, Title: Connecting Intelligence on 6G, 25th International Symposium on Wireless Personal Multimedia Communications (WPMC 2022), Herning, Denmark, November 2022.
- Organizer: Workshop on Native-AI in Wireless Networks, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2022), Virtual Conference, September 2022.
- Organizer: Special Session on 6G, 1<sup>st</sup> International Conference on 6G Networking (6GNet 2022), Paris, France, July 2022.
- Organizer: Workshop on Reconfigurable Intelligent Surfaces for Future Wireless Communications, IEEE Global Communications Conference (GLOBECOM 2021), Madrid, Spain, December 2021.
- Organizer: Workshop on Energy-Efficient Schemes for Beyond 5G, IEEE Vehicular Technology Conference (VTC2021-Spring), 25-28 April, Helsinki, Finland, 2021.
- Organizer: Workshop on Reconfigurable Intelligent Surfaces for Future Wireless Communications, IEEE International Conference on Communications (ICC 2021), 14-18 June, Montreal, Canada, 2021.
- Organizer: Workshop on Rate-Splitting (Multiple Access) for 6G, IEEE International Conference on Communications (ICC 2021), 14-18 June, Montreal, Canada, 2021.
- Organizer: Workshop on Energy-Efficient Schemes for Beyond 5G, IEEE Wireless Communications and Networking Conference (WCNC 2021), 29 March-1 April, Nanjing, China, 2021.
- Organizer: Workshop on Rate-Splitting (Multiple Access) for Beyond 5G, IEEE Wireless Communications and Networking Conference (WCNC 2021), 29 March-1 April, Nanjing, China, 2021.
- Steering Committee Member: Workshop on Practice & Further Advances in Massive MIMO, IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2020), 31 August-3 September, London, UK, 2020.
- Organizer: 2nd Workshop on Energy Harvesting Communication Networks, IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2019), 8-11 September, Istanbul, Turkey, 2019.
- Publicity Chair: 2nd Workshop on Enabling Energy Internet via Machine-Type Wireless Communications, IEEE Wireless Communications and Networking Conference (WCNC 2019), 15-18 April, Marrakech, Morocco, 2019.
- Organizer: 1st Workshop on Energy Harvesting Communication Networks, IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2018), 9-12 September, Bologna, Italy, 2018.
- Organizer: Workshop on Trusted Communications with Physical Layer Security (TCPLS), IEEE Global Communications Conference (GLOBECOM 2013), Atlanta, USA, Dec. 2013.
- Senior Member of IEEE, Member of the IEEE Vehicular Technology Society, Member of the IEEE Communications Society.

### **QUALIFICATIONS:**

I am a highly accomplished academic professional. I have been involved on several IEEE activities along the last years, and I believe that the acquired experience enables me to apply for this prestigious position in VTS. My past roles in VTS show how committed I am with the activities I am involved on. For instance, I have learnt a lot as Associate Editor of IEEE TVT since 2012, position in which I was awarded several times in recognition to the excellent service. I have also been Track Chair in previous IEEE VTCs editions and Technical Program Vice-Chair of IEEE VTC2021/2022-Spring, and the email exchanges and interactions with authors, track chairs, and members of the organizing committee enriched considerably my body of knowledge. I also led the creation of two VTS Chapters in South America. In 2019, Brazilian VTS Chapter was awarded the Chapter of the Year. However, I understand that I have much more to contribute, and this is the reason I am



applying for the BoG of VTS. I think that my candidacy can serve as a bridge for expanding the VTS activities throughout the Latin America and Middle East, in addition to keep the geographical diversity among the BoG members. I am highly motivated and will be fully committed with the new role (if elected).

#### **MAJOR ACCOMPLISHMENTS:**

- Certificate of Appreciation of Top Associate Editor for outstanding contributions to IEEE Transactions on Vehicular Technology in 2013, 2015, and 2016.
- As the Latin-American Chapter Coordinator of the VTS, I was responsible for the creation of the Brazilian VTS Chapter and Colombia VTS Chapter in South America. In 2019, the recently created Brazilian VTS Chapter was awarded as the Chapter of the Year.

**Statement:** If elected to make part of the Board of Governors of VTS, I intend to work hard with all members to consolidate VTS as one of the world's most relevant society for vehicular technologies and communications. I'll make hard efforts to increase the VTS internationalization, particularly towards developing countries, such as Brazil, and towards the Middle East region, where I am currently living and very delighted to be part of the outstanding TII research team, headed by Dr. Merouane Debbah. I also plan to discuss and develop new ways to attract and involve new members in the society.

#### **ABBAS JAMALIPOUR (S'90-M'96-SM'00-F'07)**

**Biography:** has been with the University of Sydney, Australia since 1998, where holds the position of Professor of Ubiquitous Mobile Networking and leads the Wireless Networking Research Laboratory. He receives his PhD in Electrical Engineering from Nagoya University, Japan. He is a Fellow of the IEEE (Class 2007), the Institute of Electrical, Information, and Communication Engineers (IEICE, Class 2010) and the Institution of Engineers Australia (Class 2004), an ACM Professional Member, and an IEEE Distinguished Lecturer. He has authored nine technical books, eleven book chapters, over 550 technical papers, and five patents, all in the field of wireless and mobile communications. He is the recipient of a number of prestigious IEEE awards as well as 15 Best Paper Awards such as IEEE Harold Sobol Award, IEEE Distinguished Contribution to Satellite Communications Award, IEEE Best Tutorial Paper Award, and IEEE Distinguished Contribution to Communications Switching and Routing Award. He has had (and currently has) several adjunct positions and close collaborations with universities and industries around the world with special emphasize in the Asia-Pacific and North America Regions.

He was one of the first researchers to disseminate fundamental concepts of the next generation mobile networks, broadband convergence networks and heterogeneous networks; some of which have been gradually patented and deployed by industry and included in the ITU-T standards. He has held multiple editorial leaderships and technical editor positions. He has been a Chair, Co-chair, or TPC Member of more than 250 international conferences.

#### **COMMITTEES/BOARDS:**

- 2022 Member, IEEE TAB/PSPB Products and Services Committee
- 2022 Member, IEEE Panel of Editors
- 2021 Member, Nominations Committee, IEEE Div IX Division Director Elections
- 2022-2021 Chair, S/C Presidents' Forum Ad Hoc Committee, IEEE Technical Activities Board (TAB)
- 2020 Member, S/C Presidents' Forum Ad Hoc Committee, IEEE Technical Activities Board (TAB)
- 2020-2021 Voting Member, IEEE Technical Activity Board (TAB)
- 2018-2019 Member, IEEE TAB Strategic Planning Committee
- 2016-2019 Member, IEEE Panel of Editors
- 2014-2017 Member, IoT Initiative Steering Committee
- 2012-2013 Member, IEEE Conference Publications Committee
- 2011 Alternate Member, Fellow Evaluation Committee

#### **REGIONS:**

- 1993-Now Active Member and Contributor, IEEE Asia-Pacific Region

#### **SECTIONS/CHAPTERS:**

- 2020-2021 Past Chair, IEEE Vehicular Technology Society NSW Chapter
- 2018-2019 Chair, IEEE Vehicular Technology Society NSW Chapter
- 2015-2017 Founding Executive Member and Treasurer, Vehicular Technology Society NSW Chapter
- 2010-Now Active Member and Contributor, IEEE NSW Section

#### **STUDENT BRANCHES:**

- 2012-2013 Branch Advisor, Sydney University IEEE Student Branch

## **SOCIETY:**

- 2022 Treasurer, IEEE Vehicular Technology Society
- 2022 Chair, IEEE ComSoc SSC Award Selection Committee, SSC Technical Recognition Award
- 2022-2023 Editor-in-Chief, IEEE Transactions on Vehicular Technology
- 2022-2023 Member, Publications Committee, IEEE Vehicular Technology Society
- 2022-2023 Member-at-Large, IEEE Communications Society Conference Council
- 2021-Now Member, Steering Committee, IEEE Int'l Conference on Digital Twins and Parallel Intelligence
- 2020-2021 President, IEEE Vehicular Technology Society
- 2020-2022 Board of Governor Member, IEEE Vehicular Technology Society
- 2019-2022 Distinguished Speaker, IEEE Vehicular Technology Society
- 2018-2019 Executive Vice-President, IEEE Vehicular Technology Society
- 2018-2019 Chair, Long Range Planning Committee, IEEE Vehicular Technology Society
- 2017-2019 Chair, Fellow Evaluation Committee, IEEE Vehicular Technology Society
- 2015-2019 Member, Publications Committee, IEEE Vehicular Technology Society
- 2017-2019 Board of Governor Elected Member, IEEE Vehicular Technology Society
- 2018-2019 Vice-Chair, Communications Society, GLOBECOM/ICC Technical Content Committee
- 2018-2021 Chair, IEEE High Performance Switching and Routing Conference Steering Committee
- 2015-2019 Editor-in-Chief, VTS Mobile World, IEEE Vehicular Technology Society
- 2015-2019 Distinguished Lecturer, IEEE Vehicular Technology Society
- 2015-2017 Member, Communications Society, GLOBECOM/ICC Technical Content Committee
- 2014-2016 Member, Mobile Radio Advisory Committee, IEEE Vehicular Technology Society
- 2014-2016 Member, Fellow Evaluation Committee, IEEE Vehicular Technology Society
- 2014-2016 Board of Governor Elected Member, IEEE Vehicular Technology Society
- 2014-2017 Member, IEEE High Performance Switching and Routing Conference Steering Committee
- 2014-2015 Member-at-Large, IEEE Communications Society Conference Council
- 2012-2013 Vice President-Conferences, IEEE Communications Society
- 2012-2013 Member, Communications Society, GLOBECOM/ICC Technical Content Committee
- 2012-2013 Member, Communications Society, GLOBECOM/ICC Management & Strategy Committee
- 2012-2013 Member, IEEE Communications Society, Finance Committee
- 2010-2011 Member-at-Large, IEEE Communications Society On-Line Content Board
- 2010-2011 Member-at-Large, IEEE Communications Society Conference Boards
- 2010-2011 Member-at-Large, IEEE Communications Society Education Board
- 2010-2011 Vice Director, Asia Pacific Board, IEEE Communications Society
- 2009-2011 Chair, Communications Switching & Routing Technical Committee, Comm. Society
- 2009-2010 Member-at-Large, Communications Society, GLOBECOM/ICC Technical Content Committee
- 2008-2009 Member-at-Large, IEEE Communications Society Education Board
- 2008-2009 Chair, Chapters Coordinating Committee, Asia Pacific Board, Communications Society
- 2007-2009 Vice Chair, Communications Switching & Routing Technical Committee, Communications Society
- 2006-2008 Member, Steering Committee, Wireless Communications and Networking Conference
- 2006-2007 Chair, Chapters Coordinating Committee, Asia Pacific Board, Communications Society
- 2006-2008 Member-at-Large, Communications Society, GLOBECOM/ICC Technical Content Committee
- 2006-2008 Editor-in-Chief, Wireless Communications
- 2006-2007 Chair, Chapters Coordinating Committee, Asia Pacific Board, Communications Society
- 2005-2007 Vice Chair, Communications Switching & Routing Technical Committee, Communications Society
- 2004-2009 Distinguished Lecturer, Communications Society
- 2004-2006 Chair, Satellite & Space Communications Technical Committee, Communications Society
- 2004-2005 Vice Chair, Technical Affairs Committee, Asia Pacific Board, Communications Society
- 2003-2005 Secretary, Communications Switching & Routing Technical Committee, Communications Society
- 2002-2004 Vice Chair, Satellite & Space Communications Technical Committee, Communications Society
- 2001-2003 Vice Chair, Coordinating Committee Chapter, Asia Pacific Board, Communications Society
- 2000-2002 Secretary, Satellite & Space Communications Technical Committee, Communications Society

## **CONFERENCES:**

- IEEE Global Telecommunications Conf. (IEEE GLOBECOM2022), Rio de Janeiro, Brazil (Tutorial Chair)
- IEEE Satellite 2022 (The 2022 IEEE Int'l Conf. on Satellite Computing), China (General Co-Chair)
- IEEE Global Telecommunications Conference (IEEE GLOBECOM2021), Madrid, Spain (Keynotes Chair)
- EAI Int'l Conf. Wireless Mobile Communications & Healthcare (EAI MobiHealth 2021), China (General Co-Chair)
- 2021 IEEE Int'l Conference on Digital Twins and Parallel Intelligence, Beijing, China (General Co-Chair)
- JSAE 5th Int'l Electric Vehicle Technology Conf. (EVTec 2021), Yokohama, Japan (Int'l Advisory Comm.)

- IEEE International Conference on Communications (ICC 2021), Montreal, Canada (GITC Advisor)
- IEEE Global Telecommunications Conference (IEEE GLOBECOM2020), Taipei, Taiwan (TPC Member)
- Int'l Conf. on Informatics, Electronics & Vision (ICIEV2020), Fukuoka, Japan (Int'l Advisory Board)
- 4th Cyber Security in Networking Conference (CSNet'20), Lausanne, Switzerland (TPC Member)
- 12th IEEE Latin-American Conf. Communications (IEEE LATINCOM 2020), Dominican Republic (TPC Member)
- EAI 13th Int'l conf on Wireless Internet Communications Networks (WiCON 2020), Australia (General Chair)
- IEEE Vehicular Technology Conf. (VTC2020-Fall), Victoria, Canada (Keynotes and Panels Co-Chair)
- IEEE International Conference on Communications (ICC 2020), Dublin, Ireland-Virtual (TPC Member)
- 15th WiMob 2019 Conference (IEEE International Conference on Wireless and Mobile Computing, Networking and Communications), Barcelona, Spain (Workshops Co-Chair)
- IEEE Vehicular Technology Conf. (VTC2019-Spring), KL, Malaysia (Panels and Keynotes Co-Chair)
- IEEE Global Telecommunications Conf. (GLOBECOM 2018), Abu Dhabi, UEA (Technical Program Chair)
- IEEE Vehicular Technology Conf. (VTC2018-Spring), Porto, Portugal (Panels and Keynotes Co-Chair)
- IEEE Vehicular Technology Conference (VTC2017-Fall), Toronto, Canada (Panels and Keynotes Co-Chair)
- IEEE International Conference on Communications (ICC 2017), Paris, France (Workshops Chair)
- IEEE Vehicular Technology Conf. (VTC 2017-Spring), Australia (Workshops Chair & VTS Liaison Chair)
- IEEE Smart Grid Comm 2016 (Technical Program Chair)
- First International Workshop on Automotive IoT (Auto-IoT 2015), in conjunction with IEEE World Forum-Internet of Things 2015, Milan, Italy (Co-General Chair)
- 22nd International Conference on Telecommunications (ICT 2015), Technically Sponsored by IEEE, Sydney, Australia (Technical Program Co-Chair)
- International Conferences on Signal Processing and Communication Systems (ICSPCS2014), Technically Sponsored by IEEE, Gold Coast, Australia (General Chair)
- IEEE International Conf. on Communications (ICC 2014), Sydney, Australia (Technical Program Chair)
- IEEE/CIC International Conf. on Communications in China (ICCC 2013), Xi'an, China (General Chair)
- IEEE Global Telecommunications Conference (GLOBECOM 2012), Anaheim, CA (Symposia Chair)
- IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2012), Sydney, Australia (Technical Program Chair)
- IEEE International Conference on Communications (ICC 2012), Ottawa, Canada (Tutorials Co-Chair)
- IEEE Wireless Communications and Networking Conf. (WCNC 2012), Paris, France (TPC Vice Chair – Networks Track)
- IEEE International Conference on Communications (ICC 2011), Kyoto, Japan (TPC Vice Chair)
- IEEE Global Telecommunications Conference (GLOBECOM 2010), Miami, FL (Technical Program Co-Chair, Wireless Networking Symposium)
- IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2010), Istanbul, Turkey (Track Chair: Mobile and Wireless Networks)
- IEEE International Conf. on Communications (ICC 2010), Cape town, South Africa (Workshops Chair)
- IEEE Wireless Communications and Networking Conf. (WCNC 2010), Sydney, Australia (General Chair)
- More than 250 other conference involvements as a chair, TPC member before 2010

#### **OTHER:**

- Advisory Committee Member, Technical Program Committee Member, and Reviewer for more than 250 other conferences since 1994.
- Technical Editor, Associate Editor, and Reviewer for many IEEE and non-IEEE journals since 1996

#### **QUALIFICATIONS:**

As a long-term member and volunteer of IEEE for 34+ years and of IEEE VTS for 20+ years, I have experienced and understood VTS members' needs, in terms of services they want in relation to the publications, conferences, education, and industry involvements. VTS has made great achievements in the past decades, and it is time now to grow its membership further in all regions. As an active and well-known member in Region 10, I will be able to help with the VTS's long-term strategies in extending its borders within the fastest-growing Region; Asia-Pacific, and establish strategic collaborations with the universities and industries in the region. Vehicular Technology Society has major interests in wireless and mobile communications systems, and we see large portion of technical papers in VTC and IEEE.

Transactions on Vehicular Technology are in those areas. My mobile communications expertise and well-known face in the region and the world in mobile communications in general and in vehicular and mobile ad hoc networks would be imperative to the progress of the VTS and to the VTS BoG in its long-term strategic planning and administration. My research background will also be important to the key VTS area of Connected and Autonomous Vehicular Systems.

I attained irreplaceable experiences from my volunteer works in IEEE and its societies and as a long-term member of the VTS, I want to continue my contributions to the VTS BoG and devote further to the future of my home Society and its

members. My experiences as a VTS BoG member since 2014 and a society member for over 20 years, as an editor and editor-in-chief, as a conference chair, and so on, can be utilized for the good of the VTS in different sections of its activities. I can continue bringing new ideas and initiatives for new VTS conferences, journals, and other services that would bring new members from academia and industry to the VTS.

### **MAJOR ACCOMPLISHMENTS:**

I have been in academia for my entire post-doctoral career. I have been working at the University of Sydney since 1998 and currently, I am the Chair Professor of Ubiquitous Mobile Networking. I have supervised 77 graduate research students and developed several educational curricula at the School of Electrical and Information Engineering. My publications record shows that I have been an active researcher with significant research impact (h-index: 50). I have been a reviewer to major research- funding bodies including ARC Australia, NSERC Canada, NSF, and Kentucky Science and Engineering Foundation USA, EU Projects and others in Asia-Pacific and the Middle East and a consultant to several telecommunications companies.

I have devoted myself in volunteering for IEEE and other institutions. I have organized many conferences around the world. I was elected as the Vice-President Conferences, IEEE Communications Society 2012-13. In that position, I was responsible for around 35 portfolio conferences, and I created two new major conferences among other achievements during my term. As a BoG member of IEEE VTS, I contributed to the fellow committee, publications committee, and mobile radio committee as a member and led the editorship of the monthly publication of the Society, The VTS Mobile World since 2016. As the Chair of fellow evaluation committee and chair of long-range planning committee of the VTS, and in the position of Executive Vice President of the VTS, I have put significant efforts in improving the position and influence of the VTS among wider IEEE societies. In 2020-21 I was the President of the VTS, when coincided with the pandemic. During that period, I could enhance the VTS membership service and the Society position within the TAB and established joint membership with ITSS. Since Jan 2022 I am leading the IEEE Trans. on Vehicular Technology and so far, I could reduce the number of papers staying long in review, establish CAVS technical area, and provide outstanding service to our authors. Currently I am also the VTS Treasurer and assist with the financial matters of Society.

**Statement:** I have devoted to IEEE publications as an Editor-in-Chief, Editor, Reviewer, and Author for three decades. Similarly, I have served IEEE conferences as a General Chair, Technical Program Chair, Track Chair, TPC member, Reviewer, or Author. I have attended many IEEE meetings and understand well how IEEE works. I have talked to many IEEE and VTS members, listened, and learnt a lot from them on what they expect from their Society. I understand that members want to be informed and have the best services: Fair review, sound editorial decisions, timely publications, high-quality conferences, active industry relationship, financial transparency, and in short, value for money and time they provide.

With such understanding, as a member of BoG, if elected, I will endeavor to:

- Make significant changes in review process and publication policies for best member's experience;
- Listen to members, act swiftly on their feedback, and relay them effectively to the governance;
- Advocate special publication space in conferences and journals for authors from industry and a balanced editorial representation of academia and industry.
- Facilitate participation of new and early career researchers in editorial organizations; and
- Improve funding support availability for conference participation by students, early career researchers, and those from developing countries.

### **NIGEL JEFFERIES (M'12-SM'13)**

**Biography:** Chairman of the Wireless World Research Forum, which is respected and renowned around the world for promoting wireless research, Director of Montreal Consulting Limited, Senior Wireless Technology Consultant to Huawei R&D UK, representing Huawei on standards committees including BSI (IST-33), ETSI TC LI and TC CYBER. Also, Member of the Governing Body of Amity University in London, proposal reviewer for EPSRC and Horizon Europe.

From 2011-2019 Senior Standards Manager, Industry & Standards for Huawei UK, and before that Head of Academic Relationships for Vodafone Group R&D, heading a team leading engagement with Vodafone's university partners globally. Chair of the Technical Steering Group for projects in the Mobile VCE's core programmes.

Previously Technical Manager, Vodafone Group R&D, leading new research teams in areas such as core networks, web technology and security. From 1991–2001 senior engineer and technical manager in Communications Security and Advanced Development. I was Project Manager for 3 collaborative projects in the ACTS programme that developed key technologies for security of 3G systems. Led the security team of EU-funded Mobilise project and Vodafone's participation in UK-funded LINK 3GS3 project.

From 1988-1991 I worked as a mathematician at Racal Research Ltd Reading

My education includes an MA in mathematics from the University of Oxford, and a PhD in functional analysis from the University of London.

I am a Chartered Mathematician, a Fellow of the Institute of Mathematics and Its Applications and Member of the Institute of Engineering and Technology.

#### **SOCIETY:**

I have been a member of VTS for 11 years. In my role as chair of WWRF, I have negotiated and signed collaboration agreements with VTS. Results included many special issues of Vehicular Technology Magazine containing the best papers from WWRF meetings, including many of the highest rated articles in the magazine, helping to increase its reputation and impact. I have also initiated and organized a number of workshops and panels led by WWRF

#### **CONFERENCES:**

- Chair of Industry Panels, IEEE ICC 2015
- Reviewer for a number of IEEE conferences

#### **QUALIFICATIONS:**

I have 15 years' experience of leading a global research organization, dedicated to advancing mobile and wireless communications. I developed a worldwide network of researchers and led publishing, conference, and collaborative project activities.

I have worked extensively with VTS, establishing collaboration agreements with WWRF, leading to publication of special issues of WWRF papers in VT Magazine.

#### **MAJOR ACCOMPLISHMENTS:**

As chair of WWRF for 15 years I have managed its global expansion, the establishment of working groups on connected vehicles and other topics.

I was project manager for 3 successful EU-funded collaborative projects in the ACTS programme: ASPeCT, USECA and SHAMAN, all producing pioneering results in the security of 3rd and 4th generation mobile networks.

As part of the Alvey Locator project I implemented the first secure X.400 email system, which included early implementations of public-key cryptography.

**Statement:** If selected for the position, I will endeavor to help the Society meet its objectives, by building connections between industry and academic researchers, and between the Society and other organizations with similar objectives, where I have strong links. I will look to help the Society develop the careers particularly of research engineers in industry and in developing countries. As Chair of the WWRF, together with the others, I have organized successful meetings in Malaysia, South Africa, Morocco, and Qatar. I hope to bring this expertise to the Society to expand its footprint further if elected.

#### **FABRICE LABEAU (S'00-A'00-M'03-SM'07)**

**Biography:** F. Labeau is a Professor with the Electrical and Computer Engineering Department, McGill University. His research interests are in applications of signal processing to healthcare, power grids, communication and signal compression. He has authored more than 200 refereed papers in refereed journals and conference proceedings in these areas.

He is the director for operations of STARaCom, an interuniversity research center grouping more than 60 professors and 500 researchers from 13 universities in the province of Quebec, Canada. He has held several administrative and management positions at McGill University, including associate department Chair, Associate Dean, Interim Chair and Acting Dean. He is currently Interim Deputy Provost (Student Life and Learning).

He received in 2015 and 2017 the McGill University Equity and Community Building Award (team category), the 2008 and 2016 Outstanding Service Award from the IEEE Vehicular Technology Society and the 2017 W.S. Read Outstanding Service Award from IEEE Canada.

#### **COMMITTEES/BOARDS:**

- Technical Activities Board, voting member, 2014-2015, 2018-2019, 2022-2023
- TAB Periodicals Committee, member, 2015-2018, 2020-2021, Chair, 2022-2023
- TAB Management Committee and TAB Finance Committee, member, 2022-2023
- IEEE Ad-hoc committee on Publications Strategy, Member, 2019

- TAB-PSPB Shared ad hoc on Pubs Strategy and Development, co-chair, 2021-2022
- TAB Strategic Planning Committee, member, 2019-2021
- IEEE Conduct Review Committee, member, 2021-2022
- TAB Conflict Resolution Committee, member, 2018
- IEEE EAB Educational Products Editorial Committee, member, 2018-2021

#### **REGIONS:**

- Region 7 (Canada), Board member, 2015-2016, 2019-2020
- Region 7, Area East Coordinator, & Executive Committee, member, 2019-2020

#### **SECTION/CHAPTERS:**

- Montreal Section, Chair, 2015-2016
- Montreal Section, Signal Processing Chapter Chair, 2011-2015
- Montreal Section, Vehicular Technology Chapter Chair, 2014
- Montreal Section, Sensors Council Chapter Chair, 2017-2022
- Montreal Section, Systems Council Chapter Chair, 2021-2022

#### **SOCIETY:**

##### Vehicular Technology Society

- President, 2014-2015
- Vice President (Membership) and Past President, 2016-2017
- Executive Vice-President, 2012-2013
- Secretary, 2020-2022
- Chapters Committee Chair, 2011-2012
- Nomination Committee, member, 2011, chair 2017, 2020, 2021

##### Sensors Council

- President, 2018-2019, President-Elect, 2016-2017, Past President 2020-2021, Senior Past President 2022-2023
- Administrative Committee (AdCom) member-at-large, 2015-2016

##### Signal Processing Society

- Conferences Board, Member, 2020-2021
- Conferences Board Executive Subcommittee, Member, 2020
- Conferences Board Ad Hoc on Flagship Conferences Future Strategy, chair, 2020
- SPS Technical Activities Board, Member, 2014-2015
- SPS Image, Video and Multidimensional Signal Processing Technical Committee, Associate Member, 2012-2015
- Multimedia Signal Processing Technical Committee, Elected Member, 2016-2018

##### Systems Council

- AdCom member (VTS representative), 2021-2022
- Chapters Committee, chair, 2021-2022

#### **CONFERENCE:**

##### General Co-chair:

- IEEE International Conference on Image Processing, 2025
- IEEE International Conference on Image Processing, 2021
- IEEE Energy and Power Engineering conference, 2019
- IEEE Global Conference on Signal and Information Processing (GlobalSIP), 2019
- IEEE SENSORS 2019
- IEEE Vehicular Technology Conference (VTC), Fall 2016
- International Workshop on High Mobility Wireless Communications (HMWC), 2013

##### Technical Program Co-chair:

- IEEE 5G World Forum (WF-5G), 2021
- IEEE Canadian Conference on Electric and Computer Engineering (CCECE), 2018
- IEEE International Conference on Image Processing (ICIP), 2015
- IEEE International Conference on Ubiquitous Wireless Broadband (ICUWB), 2015
- IEEE Vehicular Technology Conference (VTC), Fall 2012
- IEEE Vehicular Technology Conference (VTC), Fall 2006

#### Finance Chair:

- IEEE International Conference on Autonomous Systems (ICAS), 2020
- IEEE Multimedia Signal Processing Workshop (MMSP), 2016

#### Local- Arrangements Co-chair:

- IEEE International Conference on Communications (ICC), 2021
- IEEE Global Conference on Signal Processing (GlobalSIP), 2017
- IEEE/ISOEN International Symposium on Olfaction and Electric Nose (ISOEN), 2017
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2004

#### Symposium Co-chair:

- IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), 2012

#### Technical Area Chair

- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2013
- IEEE International Conference on Image Processing (ICIP), 2014

#### OTHER:

- IEEE Financial Transparency group, member of the executive, 2018-2019

#### QUALIFICATIONS:

Over the last 10 years, I have acquired extensive management experience, through my administrative positions within my university, and my participation in several governing bodies in IEEE, including leadership positions. I have developed a very strong knowledge of the Societies, TAB and IEEE in general. I have been recognized over the years as a strong participant and contributor on the boards and committees I have been part of. I have been serving on the VTS Board of Governors for several years and occupied several leadership positions within VTS, and always strongly contributed to these portfolios.

#### MAJOR ACCOMPLISHMENTS:

- As VTS president (2014-2015), I have led the society through strong growth in our transactions, increased numbers of new initiatives, both society-led and externally driven, as well as a revival of our VPPC conference. This leadership has been recognized through a very successful 5-year society review at the IEEE level.
- As VTS Chapters committee chair and later Vice-President (Membership), I have led chapter development campaigns in different parts of the world, most recently increasing by nearly 50% VTS membership in China. This work has been recognized by a VTS Outstanding Service Award.
- As Sensors Council President (2018-2019), I successfully led the Council through its 5-year review, during which the review committee “thank[ed] the Council for its effective practices, in particular in setting an example of how Councils can work in collaboration with the member Societies and show they are delivering value to their members”; this was achieved by negotiating the complex relationships between 26 member societies; I was also among one of the founding presidents of an informal collaborative group of societies and council presidents.

#### Statement:

- The Society can rely on a strong base of very dedicated and loyal volunteers. It needs however to ensure its future through a continued active recruitment of new volunteers, amongst our next generation of members.
- VTS is considered within IEEE as a solid, but conservative, society. We should together take advantage of our deep and solid roots and shake this image of conservatism, to be able to attract the next generation of VTS members and create new types of activities. We also need to continue increasing diversity in our volunteer leadership and membership.
- The society should also continue proposing new initiatives like it has been doing in the last few years; a dynamic team on the Board of Governors can help spawn and nurture these initiatives at the technical level. VTC, our flagship conference, can be the host or more new initiatives, that will ensure its growth and sustainability for the next decade.

#### DAVID W. MATOLAK (S’82-M’83-S’85-M’86-S’91-M’95-SM’00-F’21)

**Biography:** received a B.S. degree from The Pennsylvania State University, M.S. degree from The University of Massachusetts, and Ph.D. degree from The University of Virginia, all in electrical engineering. He has over 25 years’ experience in communication system research, development, and deployment, with industry, government institutions, and academia, including AT&T Bell Labs, L3 Communication Systems, MITRE, and Lockheed Martin. He has over 250 publications and eight patents. He was a professor at Ohio University (1999-2012), and since 2012 has been a professor at the University of South Carolina. He has delivered several dozen invited presentations at a variety of international venues. His research interests are radio channel modeling and communication techniques for non-stationary fading channels. Prof. Matolak is a member of standards groups in RTCA and ITU, and a member of Eta Kappa Nu, Sigma Xi, Tau Beta Pi, URSI, ASEE, and AIAA.

**IEEE ACTIVITIES:**

- Associate Editor, *IEEE Transactions on Vehicular Technology*, 2008-2019
- Associate Editor, *IEEE Transactions on Wireless Communications*, 2017-2021

**COMMITTEES/BOARDS:**

- IEEE Communications Society Education Board, 2012-2015
- IEEE Vehicular Technology Society, Drone Connectivity Committee, 2018-present
- IEEE Vehicular Technology Society, Autonomous Vehicles Committee, 2018-2021
- IEEE Communications Society, Committees on
  - UAV/V2V/High-mobility channels, February 2022-present
  - Site-specific channels, February 2022-present

**REGIONS:**

I am a member (IEEE Fellow) in Region 3, in South Carolina

**SOCIETY:** Member: Vehicular Technology and Communications societies.

In the past, I have also been a member of the following IEEE societies

- Aerospace & Electronics Systems
- Antennas & Propagation
- Information Theory
- Signal Processing
- Social Implications of Technology

**CONFERENCES:** Conference Technical Program Committee Member and/or Session/Workshop Organizer

- IEEE Southeastern Symposium on System Theory, 2001
- IEEE Spring/Fall Vehicular Technology Conference, 2004, 2007-present
- Track Chair: Transmission Tech., Spring 2011; Antennas & Propagation, F2014, F2017
- Workshop Organizer: mmWave Channel Models F2016, F2017, F2018 WiVeC Fall 2014-present
- IEEE MILCOM, 2004-06, 2015-present, Track Chair (Waveforms & SP) 2018, TPC Co-Chair 2019
- NASA NExTNAS CNS Workshop, 2003
- IEEE Aerospace Conference, 2005
- IEEE Vehicle-to-Vehicle Communications Workshop, 2007, 2008
- IEEE European Wireless Conference, 2008, 2009
- IEEE Wireless Vehicular Communications Symposium, 2008, 2010, 2011
- IEEE International Conference on Communications, 2009, 2012, 2013
- IEEE/AIAA Digital Avionics Systems Conference, 2012-present, TPC Co-chair 2016
- IEEE 18th International Conf. on Computer Communications & Networks (ICCCN), 2009
- IEEE Vehicular Networking Conference (VNC), 2009-11, Publicity Chair '09; Publication Chair '10
- IEEE Radio Wireless Symposium (Veh. Comm. Workshop Organizer), 2011
- ACM Vehicular Ad Hoc Network (VANET) Workshop, 2009
- IEEE Integrated Communications, Navigation, & Surveillance Conf., 2011, 2012
- European Conference on Antennas & Propagation, 2012-present, (Workshop organizer, 2017)
- URSI General Assembly, 2014-present, (Workshop co-organizer, 2016, 2017)
- IEEE International Conf. on Comm. (Intelligent Veh. Networking Workshop Organizer, 2012; Emerging Veh. Networks Workshop Organizer, 2013)
- IEEE Globecom Conf. (Veh. Network Evolution Workshop Organizer, 2013; High-Reliability/Low-Latency & Attocells Workshop Organizer, 2015)
- URSI GASS (High-Mobility Communications and Channels Special Session Organizer, 2014) IEEE Consumer Comm. & Networking Conf. (Special Session Organizer, 2013, 2017)
- European Conf. Antennas & Prop. (Frontiers in Prop. & Chan. Modeling Workshop Organizer, 2017) IEEE Wireless Communications & Signal Processing Conf. (Comm. Theory Chair, 2017)
- IEEE Global Conf. on Signal and Information Processing, Workshop Organizer, 2018

**OTHER:** Journal/Conference Reviewer

IEEE Journals

- *Trans. Aerospace & Electronic Systems*, 2004-present; *Communications Letters*, 1999-present; *Trans. Communications*, 1993-95, 2008-present; *Trans. Vehicular Technology*, 2000-present; *Signal Processing Letters*, 2008-2013; *Trans Wireless Comm.*, 2010-present;
- *Trans. Antennas & Prop.*, 2010-present;
- *IEE (now IET) Electronics Letters*, 2003-present



- *IET Proceedings on Communications*, 2007-present
- *EURASIP Journal on Wireless Communications and Networking*, 2003-present
- *European Transactions on Telecommunications*, 2006-2012

#### IEEE Conferences:

- Globecom 2000-present, ICC 2002-present, WCNC 2002-present, MILCOM 2004-present, VTC Spring/Fall 2004-present, WiVeC, Intell. Transp. Systems 2008-2020, Digital Avionics Sys. Conf. 2015-present

#### QUALIFICATIONS:

I am a long-time member of VTS and have frequently attended the Vehicular Technology Conference as a presenting author, session chair, and sometime Track Chair and workshop organizer. I am well informed on the VTS mission, and have been a Vehicular Technology Transactions author and associate editor as well. I have also published in, and reviewed for, the Vehicular Technology Magazine. My research has been in the area of wireless channel modeling and transmission technologies, two of the key areas within VTS. Recent work has been in the area of V2V and air-ground communications. I have supervised research projects funded by the NSF, NASA, NIST, and DoD, as well as some consulting with companies in the wireless communications industry. I have also served on several national and international standards committees in the wireless communications area. I thus believe that I have the background and skills to contribute to the VTS in a larger role.

#### MAJOR ACCOMPLISHMENTS:

- I have organized several very successful VTC workshops, primarily in the area of wireless channel modeling, but also in the area of vehicular communications.
- I have been an active member of the VTS Drone Connectivity Committee, and in 2021 we organized a successful student drone competition.
- I have also worked to broaden the exposure to VTS activities and research, by organizing/chairing workshops on VTS topics in other conferences, e.g., IEEE Radio Wireless Symposium, URSI GASS, IEEE ICC, IEEE Globecom, IEEE Wireless Communications & Signal Processing Conference, and the IEEE/AIAA Digital Avionics Systems Conference.

**Statement:** If selected for the position, I would work to be an active BoG team member. Once familiar with the BoG, its purview and operational procedures, I would like to be involved in new initiatives, and possibly take on other VTS roles. Examples include the following:

- Recruiting new (student) members: we could expand efforts to attract new student members, primarily at the graduate level, but also at the undergraduate level
- Creating more VTS exposure in my region: South Carolina has a manufacturing base that includes automotive (BMW) and aviation (Boeing). The society could work to make connections with industries as well as the several universities in the state.
- Local VTS workshops: with a “critical mass” of VTS members in my area, we could form a local chapter, which could sponsor workshops and other activities. Even prior to chapter formation, holding local workshops would help to advertise and recruit.
- Connecting vehicular (automotive) and aviation groups? These two groups are generally distinct, but have many similar technological concerns (e.g., wireless comm); both areas are experiencing growth. It may be worthwhile to consider forming a mutual interest group.
- Possibly consider serving as an editor/staff member of VT Magazine?

#### NEELI R. PRASAD (S’94-M’95-SM’09)

**Biography:** Dr. Prasad is co-founder/CTO of startups SmartAvatar B.V., Netherland and TrustedMobi “VehicleAvatar Inc.”, USA. She is also Vice President of Membership IEEE Vehicular Society Board of Governors. She was Professor at the Department of Business Development and Technology, Aarhus University, Denmark. She was an advisor to Movimento, a leader in software-defined vehicles which was acquired in 2017 by Aptiv PLC, USA. She was Assistant Department Chair and Professor at the ECE Department, ITU in San Jose, California, and was the founder/CEO of SPA Solutions LLC consultancy services within the automotive, network, and cybersecurity. She was a professor and founder of the “Living Lab” at Aalborg University, Denmark.

From vision to execution, she helps companies organize and prioritize their R&D activities to achieve maximum business results and drive topline growth. Prasad has been at the forefront of this exciting culture change for more than two decades – helping global organizations, prominent research institutions, governments, and even the tiniest startups understand how their technologies will fit into the future. An early contributor to the IoT, Prasad has deep knowledge in AI, cybersecurity, digital privacy, mobility, networking, and WSNs. She has enhanced technologies of multinationals including CISCO, HUAWEI, NIKSUN, Nokia-Siemens, and NICT and is also a recognized expert in governmental working groups and cross-continental forums. Helping colleagues and students develop and advance professionally is part of her DNA.

Well-traveled and active IEEE volunteer since 1991, Prasad is a multi-lingual DEI enthusiast adept at balancing culture and gender differences across diverse workplace environments.

## **COMMITTEES/BOARDS:**

- GIMS Advisor, IEEE ICC 2024, Denver, USA
- Member, VTS Synergy Ad Hoc Committee
- Chair, VTS Volunteer Engagement Committee
- IEEE Digital Privacy Initiative, VTS Liaison and leading Digital privacy for healthcare subgroup (2021-present)
- IEEE VTS VP Membership Development (2020-present)
- IEEE-USA IEEE-USA's Committee on Transportation and Aerospace Policy (CTAP), IEEE VTS Liaison (2020-present)
- IEEE Communication Society Technical Committees Board in the Industry Outreach Board, voting member (2020-2021)
- VTS BoG (2019-2021)
- Vice chair and Patronage Chair, IEEE Communication Society GIMS (2020-present)
- GIMS Advisor, IEEE ICC 2020, Dublin, Ireland
- VTS Liaison to IEEE Committee on Transportation and Aerospace Policy (2020-present)
- Member and Chair of the Marketing, Strategy, and Staff Liaison Group, IEEE Communication Society Globecom/ICC Management & Strategy Committee (COMSOC GIMS) (2017-present)
- ComSoc GIMS Keynote subgroup Chair (2020-present)

## **SECTIONS/CHAPTERS:**

- Volunteer: IEEE Vehicular Technology and Communication Society Joint Chapter, Benelux (1997-2001)
- Volunteer: IEEE Vehicular Technology and Communication Society Joint Chapter, Denmark (2004-2014)
- IEEE Communication Society Santa Clara Valley Chapter Co Vice Chair

## **STUDENT BRANCHES:**

- Volunteer: IEEE Student Branch, Delft University of Technology (1991-1996)
- Counselor: IEEE Student Branch, Aalborg (2005-2014)

## **SOCIETY:**

- Chair, IEEE Communications Society: Social Networking Technical Committee (2018-2020)
- Vice-Chair, IEEE Communications Society: Social Networking Technical Committee (2015-2017)
- Standards Liaison, IEEE Communications Society: Communication & Information Security Technical Committee

## **CONFERENCES:**

General chair, technical program chair and member of conferences from 1994 to date. An example of conferences is included below:

- Student volunteer for the combined conference on Personal Indoor & Mobile Radio Communications (PIMRC'94), September 18-22, 1994 and Wireless Computer Networks (WCN), September 21-23, 1994, The Hague, The Netherlands.
- Public Relations In-charge and student volunteer of IEEE-Student Branch Symposium Organizing Committee, symposium on "Electronic Displays", Delft University of Technology, Netherlands.
- Session Chair at First International Symposium on Wireless Personal Multimedia Communications (WPMC'98), Nov. 4-6, 1998, Yokosuka, Japan.
- Member and volunteer of organizing committee of VTC 1999-Fall and functioned as secretary of technical program committee, September 1999, Amsterdam, the Netherlands.
- Session Chairperson at Wireless Personal Multimedia Communications (WPMC 2002), Oct. 27 – 30, 2002, Honolulu, Hawaii, USA.
- Technical Program Committee Secretary for WPMC 2004, September 12-15, 2004, Abano Terme, Italy.
- Organizing committee member, IWS 2005, Aalborg, Denmark
- Technical Program Committee Co-chair, WPMC 2005, 2005, Aalborg, Denmark
- Chair of Workshop; and Panel Organizer and Moderator on WSNs at IEEE VTC 2007 Spring, Dublin, Ireland, April 2007
- Co-organizer of 1st IEEE workshop on Wireless Mesh and Sensor networks/IEEE Globecom 2007, Dec. 2007, Washington DC, USA
- Symposium co-chair, IEEE Sensor Network Security, IEEE ISSNIP 2007, Melbourne, Australia, December 3-6, 2007
- TPC Co-chair WPMC 2007, Jaipur, India, December 2007
- Co-organizer of 2nd IEEE workshop on Wireless Mesh and Sensor networks/IEEE Globecom 2008, Nov. 30, 2008, New Orleans, USA
- Co-Chair WILLOPAN2008/COMSWARE 2008, Bangalore, India, January 2008
- Technical Program Committee Co-Chair, WiMOB 2009, Turin, Italy
- Technical Program Committee Co-Chair Wireless Vitae 2009, Aalborg, Denmark
- Chair, 9th European Commission Future Internet Assembly (FIA), Aalborg, Denmark, 2012
- Track chair for IEEE Globecom and ICC 2011-2014
- Executive co-chair, IEEE Globecom 2015, San Diego, December
- Track chair IEEE CCNC 2017

- Track chair, IEEE Globecom 2022
- Co-TPC, WPMC 2022, Herning, Denmark
- Program co-Chair, Eighth International Symposium on Women in Computing and Informatics (WCI'22), August 31-September 2, 2022, Trivandrum, India
- Keynote Chair, IEEE BlackSeaCom 2022, 6-9 June 2022, Sofia, Bulgaria

#### **OTHER:**

- Distinguished Lecturer: IEEE ComSoc for Security and IoT (2013-2014)
- Organizer Summer School on WSN
- Lifelong learning schools
- Keynote, invited speaker and panelist
- CTO roundtables
- Master and PhD courses
- Advisor to European Commission projects
- GIMS/GITC COMSOC Keynote Working Group Chair

#### **QUALIFICATIONS:**

Throughout my career, I have been working across not only a broad set of technologies, but also across different cultures and geographical locations. Based on my experience in startups, industry, and academia, I bring with me a wide range of qualifications that I will be able to contribute to the VTS BoG should I be elected. I have managed many multi-stakeholder projects during my work life, and I am familiar with the inner working of IEEE and surrounding communities whether it is in developing new activities or supporting existing ones such as what I have done on the Patronage and marketing side for COMSOC GIMS or in attracting new members from different regions and broadening the Diversity, Equity, and Inclusion (DEI). From a conference perspective, I have a great deal of experience from activities such as being the executive chair for IEEE GLOBECOM in 2015 or the organizing chair for the Future Internet Week under the European commission in 2012. Both were hugely successful events, where academia, startups, and industry both participated, and I feel confident that I can bring or extend the same elements into the VTS family.

#### **MAJOR ACCOMPLISHMENTS:**

- As an involvement in Conference Organizing Committees, I managed to bring together a diverse set of highly motivated people to organize a stellar and successful event. I contributed to the success firstly to the dedication of the organization, technical and industry committees involved where we manage to bring everyone together to achieve a single goal despite good-natured vested interests.
- As project coordinator and manager on many European Commission and Industry-funded, I have juggled the coordination between cross-functional partners dispersed across Europe, US, and Asia. I brought together the partners and successfully reach the individual goals in academics, industry, and entrepreneurship.
- As VTS VP membership and ComSoc GIMS, I launched initiatives and programs focusing on DEI and Global membership increase. I have developed keynote guidelines, patronage, and marketing plans to target additional regions and societies to attract patronage and participation of startups, submissions, and attendees to the two flagship conferences (ICC and Globecom) with an emphasis on DEI. These plans have also considered the current pandemic situation and addressed virtual and hybrid scenarios.

**Statement:** If elected as VTS BoG member, I will make it my mission to work on aligning with VTS members.

Focusing on

- **Relevance.** Through proactive outreach and demonstrating the benefits of VTS membership, with networking opportunities at international conferences (face-to-face, hybrid or virtual) and website, access to the finest technological literature, massive resources for up-skilling, innovative global collaboration facilities, powerfully demonstrate VTS's relevance to current and prospective members. Build our strength in diversity, equity, and inclusion.
- **Engagement & Global Outreach.** Providing direct communication and transparency between the chapter leadership and society governing board, local events, and meaningful outreach to local industry is needed. Especially focusing on the Indian subcontinent, Africa and Latin America.
- **Professional Networking and Mentorship.** For professional growth and career advancement, active engagement and collaboration between experienced and young VTS members are a catalyst for effective integration. A structured program will be implemented that helps to connect students and young professionals with more experienced VTS members for a two-way exchange
- **Technology for Humanity.** During the COVID-19 pandemic, we have seen how technology played a critical role in humanity. I will work on addressing the 'new normal' through international collaboration, continuing professional development, and mentorship.

## **DAVID THURSTON (M'04-SM'17)**

**Biography:** I have been involved in systems engineering, emphasizing design, construction and operations of railroad and transit systems for over 41 years. I received a BS in Electrical and Computer Engineering from Clemson University in 1977, a MS in Electrical and Computer Engineering in 1989 from George Mason University and a PhD in the School of Engineering at Temple University in 2012. I have been involved in the rail and transit industry my whole career starting with railroad positions at Conrail and Norfolk Southern. I led teams of systems engineers as a consulting engineer for SYSTRA, Parsons Transportation Group, Parsons Brinckerhoff (now WSP) and Atkins. I am currently Chief Engineer – Train Control for Canadian Pacific Railway.

In addition, I am a Registered Professional Engineer in eight states in the US and one province in Canada, and an Honorary Fellow and Country Vice President of the North American Section in the Institution of Railway Signal Engineers. I am also a Senior Member of the IEEE. I have been on the National Academies Transit Research Board since 2013, and participated in the TRB review of the Federal Railroad Administration R&D program in 2020. I am a life member of AREMA and participate in 3 standards committees (2, 38 and 39), and sub-committee chair for Testing and Maintenance of PTC. I have published or presented over 45 papers at industry and academic conferences. I am also a member of several Technical Advisory Groups within the Association of American Railroads working on Positive Train Control issues.

## **COMMITTEES/BOARDS:**

- 2002 – Present – SA Working Group member for Communications Based Train Control (CBTC)
- 2015 –2021 – Elected Board Member of the Vehicular Technology Society
- 2007 – 2009 – Standards Association – Working Group Chair for Safe Braking Distance Guidelines
- 2019 – Present – Country Vice President, North American Section IRSE
- 2008 – 2019 – Chair, North American Section IRSE
- 2009 – Present – AREMA Sub Committee Chair for 39 (PTC) Testing and Maintenance
- 2017 – 2020 – Member of the Rail Transit Standards Committee within VTS
- 2019 - Present – Country Vice President for North America with the IRSE
- 2020 – Present - SA High Speed Rail and Maglev committee member
- 2021 – Present - SA CBTC and Signal committee Vice Chair
- Various – Member of AREMA Committees 2 (track Geometry), 38 (Defect Detectors) and 39 (PTC)

## **SECTIONS/CHAPTERS:**

Pittsburgh section member from 2013 (presently on assignment in Canada for work)

## **SOCIETY:**

- Long standing member off the IEEE Standards Association
- Long standing member of the Vehicular Technology Society
- Life member of American Railway Engineering and Maintenance of Way Association
- National Fire Prevention Society
- American Society for Quality
- Honorary Fellow in the Institution of Railway Signal Engineers

## **CONFERENCES:**

- I have been the IEEE representative and Co-Chair to the Joint Rail Conference since 2010.
- I was Chair of the Joint Rail Conference in 2012 in Philadelphia, PA, 2018 in Pittsburgh, PA., and 2022 (Virtual)
- I also served as Co-Chair for the International Conference on Communications Based Train Control for 2005, 2007, 2011, and 2013. In addition, I was an invited speaker in years 2015, 2017 and 2019.

## **OTHER:**

I have been involved in the IEEE for over 19 years, with active participation in the Vehicular Technology Society in numerous roles and the Standards Association serving as Chair and member of Working Groups in Rail and Transit Standards creation during that time. I have Chaired the Joint Rail Conference three times, once in Philadelphia in 2012, in Pittsburgh in 2018, and most recently the 2022 Virtual version. As the VP LTD, I have been involved with organizing the VTS Ad Hoc committee for a Rail Systems tasked with creating an international rail systems conference as well as other activities that are men to enhance the VTS member's experience. I managed the budget for LTD while serving as Vice President Land Transportation and reviewed and approved all expenses of the committees and members during that time. I reorganized the LTD and brought new faces into the group to further the goals of the Division and Society. This will continue if I am elected as our volunteer base is critical for the future of the Division as well as the Society. My close associations with the Rail Engineering programs throughout North America have introduced me to additional VTS opportunities and I plan on continuing these activities.

I was instrumental in the recent reorganization of the rail standards committees, elevating the working groups to full committee status and eliminating the old RTSC as it was ineffective in administering the program. In addition, I assisted in the formation, as a board member of VTS, of the new High-Speed Rail and Maglev Committee for the production of conference content at the VTC/VPPC and standards. I currently serve on the Ad Hoc Committee on synergy for the Board of Governors for VTS as part of our long-range planning.

If re-elected I will utilize my skills in organization and volunteerism to continue the work in rail transportation for industry as well as academia.

#### **MAJOR ACCOMPLISHMENTS:**

For the Land Transportation Division, as well as the Vehicular Technology Society, I re-started the Rail Transit Interface Committee to oversee the standards work within the rail community of IEEE. I also acquired additional resources for LTD in working group chairs, paper reviewers, and publicity chairs to set up a succession plan for LTD and Joint Rail Conference sustainability. For the Joint Rail Conference, I instituted plans and policies that increased our share of papers included in the proceedings from 5% to over 30%. Looking to the future of truly international participation within IEEE, I have maintained our policies and procedures with respect to growth of participation in rail and transit standards, technical papers and VTS membership. In addition, I worked to have VTS as a financial sponsor for the Joint Rail Conference in cooperation with ASME. The Society now receives 15% of JRC revenues.

Recent efforts in the standards arena have streamlined processes in establishing Project Authorization Requests and the elimination of the old RTSC committee. This creates a more autonomous approach for the existing working groups as committees, and the expansion of the CBTC committee into other traditional signal areas.

For the IRSE, I initiated mini-conferences in conjunction with the RSSI Product Showcase event where invited speakers would present on topics of interest to the Signal and Train Control Engineers present. This was a very successful series of events that continue to this day.

**Statement:** Over the last several years, I have been at the leading edge of Rail and Transit matters for VTS. I have served: on the Board of Governors as an elected member, had three terms as Vice President – Land Transportation, Chaired the Joint Rail Conference three times since 2012, and authored several peer reviewed papers in the field. We are now seeing an increase in activity on conferences, standards and overall participation in the Rail and Transit world, and we need to continue to manage and organize VTS to provide the services and opportunities to VTS and IEEE members. If elected to the board once again, I intend to continue to see these programs grow and help maintain VTS as the go-to society for Rail and Transit systems engineering and research as well as all land transport. The pandemic has caused many changes in how VTS responds to and serves our members. In the future, I will create new opportunities for members to participate and receive valued content in all society events and activities.

#### **LIAN ZHAO (S'00-A'02-M'04-SM'06)**

**Biography:** Professor Lian Zhao received her Ph.D. degree from the University of Waterloo, Canada, in 2002. She joined the Department of ELCE at Toronto Metropolitan University (formerly Ryerson University), Canada, in 2003 and has been a professor since 2014. Her research interests include wireless communications, mobile edge computing, and communications, and IoV, etc.

She has been selected as an IEEE VTS Distinguished Lecturer (DL) in 2022, and an IEEE ComSoc DL in 2020-2021; received the Best Land Transportation Paper Award from IEEE VTS in 2016, Top 15 Editor Award in 2016 for IEEE Transactions on Vehicular Technology, Best Paper Award from the 2013 International Conference on Wireless Communications and Signal Processing (WCSP), and the Canada Foundation for Innovation (CFI) New Opportunity Research Award in 2005.

She has been serving as an Editor of IEEE Transactions on Wireless Communications, IEEE Internet of Things Journal, and IEEE Transactions on Vehicular Technology (2013-2021). She served as a Co-Chair of Wireless Communication Symposium for IEEE Globecom 2020 and IEEE ICC 2018; Finance Co-Chair for 2021 ICASSP; Local Arrangement Co-Chair for IEEE VTC Fall 2017 and IEEE Infocom 2014, and Co-Chair of Communication Theory Symposium for IEEE Globecom 2013; She founded VT Chapter and served as the founding Chair of IEEE Toronto Section since 2018. She served as a panel expert for the Discovery Grant Program, and Evaluation Committee for the Research Tools and Instruments Grants Program of Natural Sciences Engineering Research Council of Canada (NSERC). She is a senior member of IEEE ComSoc and VTS.

**IEEE ACTIVITIES:**

- Editorship
  - Editor, IEEE Transaction on Vehicular Technology, 2013-2021.
  - Editor, IEEE Transaction on Wireless Communications, 2019-present.
  - Editor, IEEE Internet of Things Journal, 2019-present.
  - Transactions on Emerging Telecommunications Technologies, 2017-2019.

**REGIONS: 7**

- Chair, Professional Relationships Committee, IEEE Canada, 2020.

**SECTIONS/CHAPTERS:**

- Founding Chair, IEEE Vehicular Technology Chapter, IEEE Toronto Section, 2018-present.

**STUDENT BRANCHES:**

- IEEE Ryerson Student Branch Councilor, 2005-2015.

**SOCIETY:**

- IEEE VTS Distinguished Lecturer (2022-2023).
- IEEE ComSoc Distinguished Lecturer (2020-2021).

**CONFERENCES:**

- Conference Chairs and Workshop Organizers
  - Finance Co-Chair, IEEE ICASSP 2021.
  - Workshop Chair, IEEE EPEC (Electrical Power and Energy Conference) 2021.
  - Symposium Co-Chair, Wireless Communication Symposium for IEEE Globecom, 2020.
  - General Co-Chair, IEEE Greencom, 2018.
  - Symposium Co-Chair, Wireless Communication Symposium for IEEE ICC, 2018.
  - Workshop TPC Co-Chair, IEEE/CIC International Conference on Communication in China, 2018.
  - Workshop TPC Co-Chair, IEEE VTC-Fall 2017.
  - Local Arrangement Chair, IEEE VTC-Fall 2017.
  - Workshop Co-Chair, IEEE/CIC ICC, 2015.
  - Local Arrangement Chair, IEEE Infocom 2014.
  - Symposium Co-Chair, Communication Theory Symposium for IEEE Globecom, 2013.

**OTHER:**

- Organize special issues for
  - IEEE Internet of Things Journal on “Towards intelligence for space-air-ground integrated internet of things”, 2022.
  - IEEE Internet of Things Journal on “Internet of things for smart ocean”, 2020.
  - Electronics on “Cognitive radio: use the spectrum in a more efficient way”, 2013.
  - International Journal on Communication Networks and Distributed Systems on “Cognitive radio networks”, 2011.

**QUALIFICATIONS:**

Prof. Lian Zhao is an outstanding researcher who is highly respected in the professional community. Her research achievements are reflected through over 200 high-quality publications, mostly in IEEE transactions and flagship conferences. She received the IEEE VTS 2016 Best Land Transportation Paper Award, which recognizes the best paper on Land Transportation published in the TVT over a period of 3 years. She also received a few Best Paper Awards from various conferences. She was selected as a Distinguished Lecturer (DL) by IEEE ComSoc in 2019 and by VTS in 2022. In addition, she has served as a panel expert in various federal/provincial evaluation committees due to her research excellence and recognition in the field.

Lian provided outstanding professional services as editors of top-ranked IEEE journals, including IEEE Transactions on Wireless Communications (2019-present), IEEE Internet of Things Journal (2019-present), and IEEE Transactions on Vehicular Technology (2013-2020). The candidate also served in multiple IEEE conference organization committees for various roles, including General Chair, Symposium Chair, Finance Chair, Workshop Chair, and Local Arrangement Chair. She has been awarded Top 15 Editor Award from IEEE Transaction on Vehicular Technology in 2016.

Lian founded the VT Chapter of IEEE Toronto Section and is currently serving as the founding chair. The success of the Chapter was reported in VTS Newsletter in its April 2021 issue (<http://newsmanager.commpartners.com/ieeevts/issues/2021-04-01/2.html>). She also served as a Chair for Professional Development Committee of IEEE Canada in 2020 and received an IEEE Outstanding Leadership Award in 2018, and Outstanding New Leader Award in 2021 from IEEE Toronto Section.

Lian is passionate and enthusiastic to serve the society. Moreover, she is a successful and inspiring female researcher and leader, who can attract more people from underrepresented groups to join IEEE and pursue engineering career.

### **MAJOR ACCOMPLISHMENTS:**

Prof. Zhao is the founding Chair of the Toronto VTS Chapter. For a long time in history, the VTS and 7 other Societies had operated as a joint chapter (Signals & Computational Intelligence Chapter) in IEEE Toronto Section. Since June 2018, VTS Toronto Chapter has been operated as a stand-alone Chapter with her initiative. Through the years, VTS Toronto Chapter has actively hosted numerous in-person meetings, distinguished lectures, mini-workshops, and multiple online series (Distinguished Lecturer Series, Early-Stage Independent Researchers Series, Rising-Star Series, WiE Series). Through these diversified series of events, this Chapter enables its members to enhance research exchange and networking, expand personal and professional growth, promote membership development and engagement, encourage and guide young researchers for their career development, and motivate/promote female career development in engineering. She was awarded “2021 Outstanding New Leader Award” by IEEE Toronto Section to recognize the success of the leadership and the success of the Chapter.

Lian served as an Editor of IEEE Transactions on Vehicular Technology (TVT) from 2013 to 2021, IEEE Transactions on Wireless Communications (2019-present), IEEE Internet of Things Journal (2019-present), and Transactions on Emerging Telecommunications Technologies (2017-2019). During her service for all aforementioned journals, she handled the assigned papers with a high level of professionalism and dedication. She always did her best to make a timely and fairly editorial decision. Due to her exemplary service, she was awarded the Top 15 Editor Award for her outstanding contributions to TVT in 2016.

At her University, Lian has been devoted to the training of high-quality-personnel, including 10 PhDs, 26 Masters, and 5 Postdoc Fellows, who have become Principal Architects, Staff/Senior Engineers, Research Scientists, and Professors. Many of them received prestigious scholarships and career awards.

**Statement:** VTS is a global professional organization that leads the development of new intelligent vehicular technology and mobile communications, through its high-quality publications, international conferences, technology committees and standards creation, and education activities. If elected, I will work passionately to serve VTS to fulfill its vision in members life-long learning needs, standard creation, dissemination of new technologies and networking, with the following initiatives.

- Promote the recognition of members’ achievements, excellence, and contributions and provide strong mentorship to junior members to benefit their professional development.
- Strengthen industry involvement in various technical activities and create more opportunities for connections, collaboration, trainings, and partnership among education, academia, and industry sectors.
- Enhance VTS leadership position and its connections to other societies through conferences, tutorials, online contents, and publications.
- Initiate new programs and activities for emerging technologies and promote interdisciplinary collaborations, while encouraging participation especially junior researchers and engineers.
- Promote diversity and inclusion and support underrepresented members of various geographical regions, and engaging members around the world to share, collaborate, and networking.