

Name and ComSoc membership # :
Gunes Karabulut Kurt, 41410079
Polytechnique Montréal, QC, Canada

Position: **Secretary**

Biography:

Gunes Karabulut Kurt received the B.S. degree with high honors in electronics and electrical engineering from the Bogazici University, Istanbul, Turkey, in 2000 and the M.A.Sc. and the Ph.D. degrees in electrical engineering from the University of Ottawa, ON, Canada, in 2002 and 2006, respectively. From 2000 to 2005, she was a Research Assistant with the CASP Group, University of Ottawa. Between 2005 and 2006, she was with TenXc Wireless, Canada. From 2006 to 2008, Dr. Karabulut Kurt was with Edgewater Computer Systems Inc., Canada. From 2008 to 2010, she was with Turkcell Research and Development Applied Research and Technology, Istanbul. Between 2010 and 2021, she was with Istanbul Technical University. She is currently an Associate Professor of Electrical Engineering at Polytechnique Montréal, Montreal, QC, Canada. She is a Marie Curie Fellow and has received the Turkish Academy of Sciences Outstanding Young Scientist (TÜBA-GEBIP) Award in 2019. In addition, she is an adjunct research professor at Carleton University. She is also currently serving as an Associate Technical Editor (ATE) of the *IEEE Communications Magazine*, an editor of *IEEE Communication Letters*, and a member of the IEEE WCNC Steering Board. She is the chair of the IEEE special interest group entitled “Satellite Mega-constellations: Communications and Networking”. Her current research interests include space information networks, satellite networking, wireless network coding, wireless security, space security, and wireless testbeds.

Position statement:

As an SSC member, Gunes is a strong promoter of space communication systems in Canada through her leadership in both technical and organizational events. Overall, her leadership has been demonstrated through both her scientific production and the innovative character of her work. Her research activities already had and will continue to have a significant impact in the coming years, especially with the emergence of the satellite mega-constellations. She has co-organized two Workshops on “Satellite Mega-Constellations in the 6G Era” within ICC 2021 and ICC 2022. She served as the lead guest editor for the Feature topic in IEEE Communications Magazine (Impact Factor 9.6), entitled “Low Earth Orbit Satellites to Enable Access Equality,” which is published in two parts in April and June 2022. She formed the IEEE Special Interest Group on Satellite-Mega-Constellations as the chair. In the future, she will continue to volunteer actively towards the SSC activities with a specific focus on:

1. Contribute to the organization of events to encourage new members in this field to join the SSC committee.
2. Promote and encourage the SSC community in achieving greater equity, diversity and inclusion (EDI) in technical activities.
3. Facilitate to form connections and synergy between researchers from the industry, agencies and academia to foster research activities for the next-generation space networks and space sustainability.
4. Encourage researchers to investigate the opportunities and the challenges in the era of satellite mega-constellations with a Focus on the environmental impacts of the satellite systems.