

Talk Details: Signal, biomedical and industrial Applications based on Deep Learning

Brief Bio

Celia Shahnaz, SMIEEE, Fellow IEB, received Ph.D. degree from Concordia University, Canada and is currently a Professor, Department of EEE, BUET, Bangladesh since 2015.

She has published more than 150 international journal/conference papers. She is a recipient of the Canadian Commonwealth Scholarship/Fellowship and Bangladesh Academy of Science Gold Medal for her contribution in Science and Technology. Her research interests include the areas of Deep learning, pattern recognition and machine learning for audio, video, biomedical and power signals, signal processing for speech analysis and speech enhancement, multimodal emotion recognition, digital watermarking, audio-visual recognition for biometric security, multimedia communication, control system, robotics, and humanitarian technology.

Recently, her papers have received best paper awards in biomedical Engineering tracks at TENCON 2017 and at IEEE WIECON-ECE 2016, in Humanitarian Challenge track at R10 HTC 2017, and the best interactive poster award at ICIVPR 2017. Her paper has been selected for the top ten best paper awards in the Student Paper Contest of the 2018 and 2014 IEEE International Midwest Symposium on Circuits and Systems (MWSCAS), College Station, Texas, USA and Knoxville, TN, USA, respectively. She was the winner, the Best Student Paper Award, 2008 IEEE International Conference on Neural Networks and Signal Processing (ICNNSP), Zhenjiang, China. She was selected as one of the finalists of the Student Research Presentation Competition in the 2009 SYTACOM Workshop, Montreal, QC, Canada.

She was the mentor of 1st/2nd prize winning projects in IEEE IAS CMD Contests (Robotics, Humanitarian) in 2017-2019, USA. She was the supervisor of 4th/5th rank winning teams in SPCUP competitions, ICASSP 2020 (Spain)/2015 (Australia) and 5th rank winning team in VIPCUP competition, ICIP 2020 (United Arab Emirates).

She is the recipient of 2019 R10 Humanitarian Activities Outstanding Volunteer Award, 2016 MGA Leadership Award 2015 WIE Inspiring Member Award, 2013 R10 WIE Professional Volunteer Award.

She has been elected as 2021-23 Chair, IEEE SPS Women in Signal Processing. She has been appointed as 2021-22 Member, IEEE History Committee, 2021 Chair, IEEE WIE History committee, 2021 member, IEEE Educational Activities, faculty resource committee. She was a candidate for the 2021-22 IEEE Region 10 Director-Elect election. She is the current Chair, IEEE Bangladesh Section, 2020 Member, IEEE New Initiative Committee, 2020 Chair, Women in SIGHT Working Group, 2020-22 Member, IEEE Signal Processing Society (SPS) Women in Signal Processing Committee, 2020 Member, IEEE WIE Senior Member Elevation Drive, 2019-2020 Member, IEEE WIE We Power Subcommittee, 2020 Member, IEEE smart Village South Asian Working Group, 2017-2020 IEEE PES Women in Power (WiP) IEEE Region 10 Regional representative, 2017, 2019 Communications Chair, IEEE SIGHT steering Committee, 2017-18 Chair, IEEE WIE Workshops Subcommittee, 2017-18 Member, IEEE Region 10 Subcommittees (WIE, Humanitarian Technology Activity, Education), 2016 IEEE Region 10 WIE Coordinator, General Chair, IEEE TENSYP 2020, IEEE SPICSCON 2019, IEEE PEEIACON 2019, General Chair: IEEE WIECON-ECE 2019, 2018, 2016, General Co-Chair, IEEE Region 10 HTC 2017 and IEEE WIECON-ECE 2017, Founder and TPC Chair: IEEE WIECON-ECE 2015, IEEE BECITHCON 2019, IEEE RAAIACON 2019, 2018-20 Member, Technical Committee, Image, Video, and Multimedia (IVM), Asia Pacific Signal and Information Processing Association (APSIPA), 2018 to date Editorial board member, IET Signal Processing, Founder & Chair, IEEE SPS, IAS Bangladesh Chapters, Co-founder & Vice-Chair, IEEE RAS, SSIT Bangladesh Chapters, Founder, Adviser, Nominations and Appointments Chair, WIE AG, IEEE Bangladesh Section.

She has more than 20 years of experience (20 years as an IEEE volunteer) of leading impactful Technical, Professional, Educational, Industrial, Women Empowerment and Humanitarian Technology and PES related Projects at national/international levels.