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IEEE Vancouver 2018 Executive Election Results

During the Executive Committee meeting held on November 1, 2017 the following positions were declared elected by acclamation.

Rama Vinnakota	Section	Past Chair
Guillaume Boisset	Section	Chair
Bob Gill	Section	Vice-Chair
Nimesh Shah	Section	Treasurer
Matthew Reid	Sub-Section - Northern BC	Chair
Youry Khmelevsky	Sub-Section - Okanagan	Chair
Michael Adachi	Chapter - Electron Devices ED15	Chair
Ahmed Hussein	Chapter - Joint Applied Physics IM09/MAG33/NPS05/UFFC20	Chair
Vincent Wong	Chapter - Joint Communications VT06/COM19/PHO36/BT02/IT12/ITS38	Chair
Ryozo Nagamune	Chapter - Joint Control, Robotics, and Cybernetics CS23/RA24/SMC28	Chair
Dave Michelson	Chapter - Joint Aerospace & Electromagnetics AES10/GRS29/RL07/PSE43/MTT17/EMC27/AP03	Chair
Grahame Hamilton		
Jeff Bloemink	Chapter - Joint Industry Applications and Electronics IE13/IA34	Co-Chairs
Shahriar Mirabbasi	Chapter - Joint Solid State Circuits & Technology SSC37/CE08/CPMT21	Chair
Bob Gill	Chapter - Joint Computing C16/CIS11	Chair
Ljiljana Trajkovic	Chapter - Joint Section Circuits and Systems CAS04	Chair
Darrell Koskinen	Chapter - Joint Management TM14/PC26/E25/SIT30	Chair
Rob Rohling	Chapter - Engineering in Medicine & Biology EMB18	Chair
Serdar Soylu	Chapter - Oceans, Geoscience & Remote Sensing OE22	Chair
Kenny Poon	Chapter - Joint Power & Energy PE31/DEI32	Chair
Martin Ordonez	Chapter - Power Electronics PEL35	Chair
Ivan Bajic	Chapter - Signal Processing SP01	Chair
Ana Laura Gonzalez-Rios	Affinity Group - Young Professionals	Chair
Selyn Chen	Affinity Group - Women in Engineering	Chair

A further motion was passed that Steven McClain be appointed as acting Secretary with the understanding that a search will continue for a suitable replacement. There remain two vacancies in the executive.

VACANCY	Affinity Group - Consultants Network	Chair
VACANCY	Affinity Group - Life membership	Chair

Thank you to the many volunteers who make the Section work for our nearly 2,000 members.

Best regards,

Lee Vishloff,
Past Chair,
IEEE Vancouver Section.

Sergio Saponara
University of Pisa

07 December

3:30 PM

TRIUMF Auditorium
4004 Westbrook Mall
UBC

Measurement performance of sensor systems towards autonomous vehicles.

The tutorial will focus on sensor and measurement systems for new generations of vehicles with driver-assisted/autonomous capability.

This is the main trend that is revolutionizing vehicles and mobility of people and goods, and is also making smart our cities. The economic and social impacts of this application field are huge. Worldwide every year 90 millions of vehicles are sold, but 1.25 millions of people are killed due to lack of safety. In US 3.1 billions of gallons of fuel are wasted due to traffic congestion.

Assisted driving and autonomous driving aim at increasing safety, at improving fuel efficiency and our lifestyle by avoiding traffic congestion, at ensuring mobility for elderly and disabled people (inclusivity).

The interest in this research subject is demonstrated by the huge investments of companies like Google, Intel, Tesla, Uber, Ford, GM, to name just a few, and by technology alliances, e.g. between BMW and Intel, planning autonomous cars for 2021.

A convergence between automotive and ICT/Electronics industry is foreseen in the near future. An example of this convergence is the 5G Automotive Association http://www.5gaa.org/, which includes all main cars' manufacturers, telecom service providers, electronic industries, measurement system providers.

This event delayed to early 2018

Jacob Scharcanski
Federal University of Rio Grande do Sul

Computer vision in medical imaging measurements: making sense of visual data.

In this talk, we discuss how computer vision can facilitate the interpretation of medical imaging data, or help making inferences based on models of such data. In order to illustrate this presentation, several applications of medical imaging measurements and modeling are discussed, focusing in areas such as the correction of imaging artifacts that may occlude visual information, tumor detection, modeling and measurement in different imaging modalities.

When interpreting medical imaging data with computer vision, usually we are trying to describe anatomic structures (or medical phenomena) using one or more images, and reconstruct some of its properties based on imaging data (like shape, texture or color).

Actually, this is an ill-posed problem that humans can learn to solve effortlessly, but computer algorithms often are prone to errors. Nevertheless, in some cases computers can surpass humans and interpret medical images more accurately, given the proper choice of models, as we will show in this talk.

TRIUMF Auditorium,
4004 Westbrook Mall
UBC

Information
Joint Applied Physics Chair
Ahmed Hussein
Ahmed.Hussein@unbc.ca

Dear IEEE Vancouver Section Members and Friends,

Recently, the IEEE Signal Processing Society (SPS) Vancouver Chapter received wonderful news that I would like to share with you. We have been informed that our Chapter has been selected as a co-recipient of the IEEE SPS Chapter of the Year Award for 2017. SPS was IEEE's first technical society, formed in 1948. Currently, it is the fourth-largest IEEE technical society, with over 19,000 members in more than 100 countries. There are over 180 IEEE SPS Chapters worldwide. Considering the scale and the proud history of SPS, this award represents tremendous recognition for the signal processing community in Vancouver.

This honor is of course the result of a combined effort of many individuals over many years. The signal processing community in Vancouver has organized some of the premier events in the field, including the IEEE International Conference on Image Processing (ICIP) in 2000 and the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) in 2013. In 2014, we organized the first North American SPS Summer School (S3PBIGDATA). In 2018, we will host the IEEE Multimedia Signal processing Workshop (MMSP). We have been recognized as the Best Small Chapter in the IEEE Vancouver Section in 2014, an honor bestowed upon the chapter with the largest number of technical events in a year. The following year (2015), we have also organized the largest number of technical events among local small chapters. I would like to thank a number of colleagues whose efforts have led to all these successes: Rabab Ward (UBC), Z. Jane Wang (UBC), Panos Nasiopoulos (UBC), Vikram Krishnamurthy (formerly UBC), Parvaneh Saeedi (SFU), Jie Liang (SFU), and Mehrdad Fatourechi (BroadbandTV). In the coming years, we hope to do an even better job in nurturing and growing a vibrant signal processing community in Vancouver.

Finally, I would like to wish you and your families happy Holidays and all the best in 2018!

Ivan Bajić IEEE SPS Vancouver Chapter Chair