Emerging Technologies for Cuffless Unobtrusive Blood Pressure Monitoring: Celebration of 200th Birth Anniversary of Carl Ludwig

Thursday, July 13, 2017
10:50-12:20, Lee Room

Purpose
The past year 2016 has marked the 200th birth anniversary of Carl Ludwig - the inventor of kymograph that enabled continuous blood pressure (BP) recording for the first time. In EMBC’17, we propose this mini-symposium is proposed to honor Ludwig by bringing experts in cuffless BP research to present their latest findings with extended discussions on the emerging technologies that can potentially disrupt conventional techniques.

Organizer
Chair: Carole C. Carey, IEEE EMB Standards Committee Chair, C3-Carey Consultants, LLC
Co-Chair: Xiao-Rong Ding, The Chinese University of Hong Kong

Invited Talks
Measurement and Analysis of Daily Blood Pressure Over a Two-Year Period
Wenxi Chen, The University of Aizu

Method for Wearable Central Blood Pressure Monitoring and Its Multi-Signal Conditioning Approach
Fernando Silveira, Universidad de la República

A Novel Deep Learning Based Approach for Continuous Blood Pressure Estimation
Ye Li, Shenzhen Institutes of Advanced Technology (SIAT), Chinese Academy of Sciences

Flexible Electronics for Cuffless Blood Pressure Measurements
Ni Zhao, The Chinese University of Hong Kong

Unobtrusive Sensing of Intra-Aneurysm Sac Pressure in Patients after Endovascular Aneurysm Repair
Carmen Poon, The Chinese University of Hong Kong

A Systematic Classification of Cuffless Blood Pressure Monitoring Techniques: The Three-Layer Framework
Josep Sola, Centre Suisse d'Electronique et de Microtechnique (CSEM)

Panel Discussion
Moderator: Yuan-Ting Zhang, Editor-in-Chief for IEEE Reviews in Biomedical Engineering
Panelists: Lalit Mestha, GE Global Research Center
Jin-Oh Hahn, University of Maryland at College Park
Kwang Suk Park, Seoul National University
Toshiyo Tamura, Osaka Electro-Communication University
All speakers listed above

For further information please scan the QR code, and for online registration please visit: https://embc.embs.org/2017/