

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/>

