Special Issue

Sensing, Monitoring and Imaging Technologies for Diabetes and/or Peripheral Vascular Disease

Message from the Guest Editors

Globally, 463 million people are affected by diabetes. People with diabetes are 2-3 times more likely to develop cardiovascular disease (CVD), which is the leading cause of death throughout the Western world, accounting for 54% of all deaths in developed countries. Peripheral vascular disease (PVD), namely, peripheral artery disease (PAD) and carotid artery disease, are significant contributors to CVD-related morbidity/mortality linked to atherosclerosis. Early sensing, screening and detection are, therefore, paramount to preventing cardiovascular events and, thus, CVD-related deaths. Additionally, accurate and novel imaging able to rapidly be deployed and upscaled is crucial to timely treatment planning and intervention. Current PVD detection methods, such as ankle-brachial pressure testing, are limited in people with diabetes. However, continuous glucose monitoring/sensing with/out an artificial pancreas (closed-loop system) have been immensely successful. This Special Issue focuses on any novel technique or approach (including the interesting utilization of existing technologies) for the early detection, screening, sensing or imaging of either diabetes and/or PVD.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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