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Lecture Series

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Lecture schedule

<https://www.embs.org/bhi/lectures/>

From Wearable Sensors to Behavioral Informatics: Frontiers in Digital Health

Dr. Edward Sazonov

Professor, Department of Electrical and Computer Engineering,
University of Alabama

Wednesday, October 13, 2021

12:00 PM Eastern Time

(details are listed at the end)

Zoom : <https://pitt.zoom.us/j/9630638972>

Abstract: The emergence of wearable sensor technology paves the way for objective, sensor-driven assessment of health-related behaviors, which in modern society act as the major determining factors of life expectancy and quality of life. The modern sensor technology carries the promise to objectively measure and quantify complex human behaviors such as physical activity, food intake patterns, addictions, sleeping patterns, and social interactions. Furthermore, real-time recognition of the behavior enables novel approaches for just-in-time behavior modification. The recognition, characterization and interpretation of behaviors from sensor data presents a challenging problem due to complexity and variability of real-life behaviors as well as the indirect manner in which events of interest are inferred from behavioral and physiological manifestations registered by the sensors. The talk will provide an overview of our work on wearable sensors for monitoring of food intake in adults and infants, monitoring of cigarette smoking and smoke exposure, as well as monitoring of physical activity and energy expenditure. Special attention will be paid to the sensor solutions for monitoring of food intake, which are of particular interest for understanding and treatment of related medical conditions, such as obesity and eating disorders.

[Zoom Information on following page](#)

Zoom Information

When: October 13, 2021 - 12:00 PM Eastern Time (US and Canada)

Please click the link below to join the webinar:

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