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Sensor-Based Behavioral Biometrics

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Message from the Guest Editors

Behavioral biometrics is a subfield of the science of personal identification. The main goal is to build a unique pattern of behavior of a certain type of activity of a person by which they can be identified. In the broader sense, however, biosignals can also be added as a reflection of the functioning of certain human organs. Among the cognitive ones, we can count the movement of the eyes when perceiving textual information, searching for an object in a scene, searching for mistakes or repetitions, counting certain types of objects, the way of working on the Internet, etc. In the field of biosignals, there are already developments for biometrics based on eye movement, ECG and EEG signals, human breathing, etc.

Behavioral biometrics can be seen as a powerful additional means of identification. With the development of various methods of behavioral biometrics, it is expected that in the near future, it will find a place in almost all digital devices and helps prevent different types of fraud.

Keywords:

- sensors/sensing
- biometrics
- biometric recognition
- biosignal
- ECG/EEG/EMG/EOG signal sensing
- biometric systems

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