

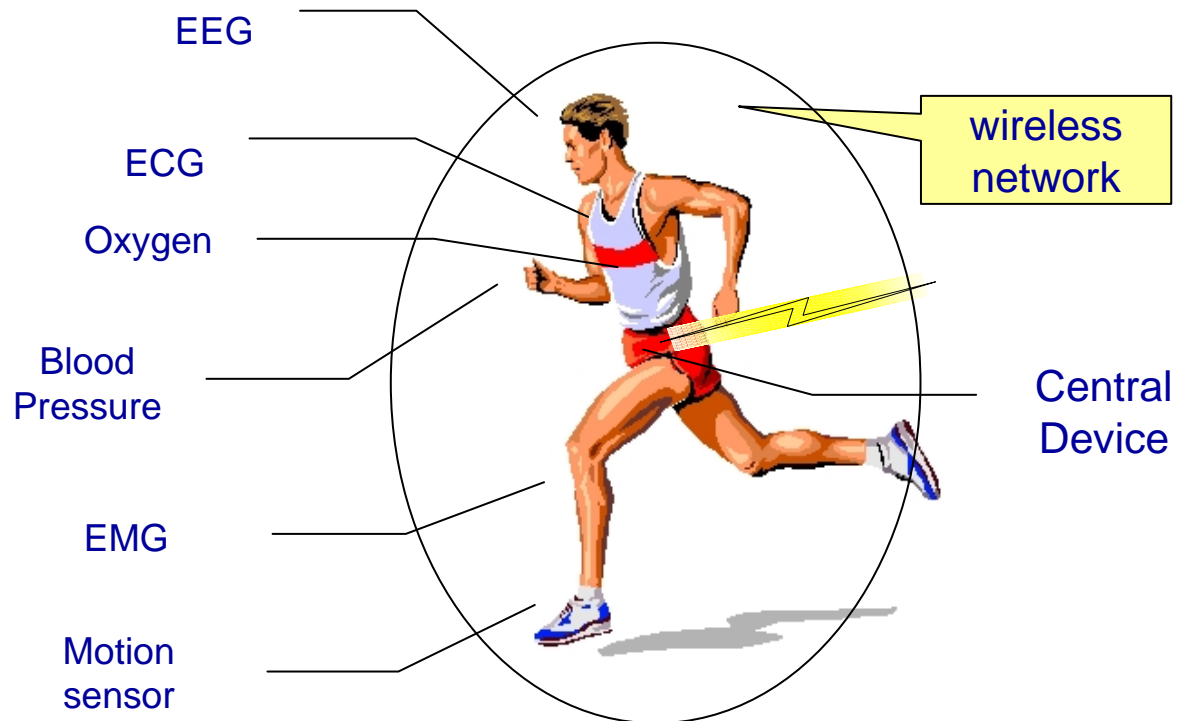


Center for High-Frequency Technologies and Applications

Wireless Body Area Networks

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- WBAN: connects independent nodes (e.g. sensors and actuators) situated in the clothes, on the body or under the skin of a person. The network typically expands over the whole human body and the nodes are connected through a wireless communication channel.



- Applications: remote health monitoring, home/health care, medicine, multimedia, sports, and many other, all of which make advantage of the unconstrained freedom of movement a WBAN offers
- Research: characterization of the physical layer of the network, including an estimation of the delay spread and the path loss between two nodes on the body. This requires a detailed characterization of the electromagnetic wave propagation and antenna behavior near the human body

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