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Autumn Naber is a PhD student in Biomedical Signals and Systems and is focused on integrating brain and muscle computer interfaces with shared control and biofeedback systems for rehabilitation and...

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Introduction The use of digital signal processing is ubiquitous in the field of physiology and biomedical engineering. The application of such mathematical and computational tools requires a formal or explicit understanding of

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Signal - a function of one or several variables that carry useful information.

Biomedical Signals- recorded from a living system and conveys information about the state or behavior of that system The living organism made up of

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In the past few years Biomedical Engineering has received a great deal of attention as one of the emerging

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Led by Meltem Izzetoglu, assistant professor in the Department of Electrical and Computer Engineering, the Biomedical Signals, Systems and Analysis (Bio-SSA) Laboratory's mission is to study the functioning of human brain and body by acquiring signals of bio-optical, bio-electric, bio-mechanical

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and bio-acoustic origin using biomedical sensors, devices and signal processing algorithms based on engineering, math, physics, and physiological principles.

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Biomedical signal processing is most useful in the critical care setting due to

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patient data needing to be analyzed in real-time. By doing complex analyses of the body's signals and having real-time monitoring, we can discover early indicators for how conditions manifest.

Signals, Systems, and Biomedical Engineering - Rhea

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and systems is part of the Master's programme Biomedical Engineering. The Biomedical Engineering track Physiological Signals and Systems is the right choice if you are intrigued by the human central nervous system and the analysis of biological functioning.

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