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Stergiopoulos, Stergios " Frontmatter " Advanced Signal Processing Handbook Editor: Stergios Stergiopoulos Boca Raton: CRC Press LLC, 2001 Library of Congress Cataloging-in-Publication Data Advanced signal processing handbook : theory and implementation for radar, sonar, and medical imaging real-time systems / edited by Stergios Stergiopoulos. p.

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Module purpose: Advanced signal processing, which includes adaptive filtering, signal detection, matching and recognition, is a key expertise required for designing and building high-tech. electronic systems such as robots, automatic speech recognition systems, driver warning systems, biometrics technology, etc.

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The programme focuses on interdisciplinary concepts that are fundamental for advanced technologies in the areas of signal processing and communications. Besides information theory, coding, and statistical signal processing, these are machine learning, optimization, and game theory.

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Information processing theory is a cognitive theory that uses computer processing as a metaphor for the workings of the human brain. Initially proposed by George A. Miller and other American psychologists in the 1950s, the theory describes how people focus on information and encode it into their memories.

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Signal processing is an electrical engineering subfield that focuses on analysing, modifying, and synthesizing signals such as sound, images, and scientific measurements. Signal processing techniques can be used to improve transmission, storage efficiency and subjective quality and to also emphasize or detect components of interest in a measured signal.

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You will gain a thorough understanding of theoretical foundations as well as advanced topics at the cutting edge of research in signal processing and communications, including: compressive sensing; machine learning and deep neural networks; wireless communication theory; numerical Bayesian methods

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ory,game theory,and variationalinequality theory. He is a recipientof a 2004/06 Fulbright Research Fellowship; the 2004 Young Author Best Paper Award by the IEEE Signal Processing Society; the 2002/03 best Ph.D. prize in Informa-tion Technologies and Communications by the Technical University of Catalonia

~~Convex Optimization in Signal Processing and Communications~~
The theory and application of signal processing is concerned with the identification, modelling and utilisation of patterns and structures in a signal process. The observation signals are often distorted, incomplete and noisy and therefore noise reduction, the removal of channel distortion, and replacement of lost samples are important parts of a signal processing system.

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