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Adaptive Signal Processing Bernard Widrow

Bernard Widrow. Prof. Widrow's research focuses on adaptive signal processing, adaptive control systems, adaptive neural networks, human memory, and human-like memory for computers. Applications include signal processing, prediction, noise cancelling, adaptive arrays, control systems, and pattern recognition.

Bernard Widrow Home - Stanford University

Adaptive signal processing is akin to neural networks in that they are both non-linear solutions to problems. In traditional linear modeling approaches, it is possible to algorithmically determine the model configuration that absolutely minimizes output error.

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Bernard Widrow (born December 24, 1929) is a U.S. professor of electrical engineering at Stanford University. He is the co-inventor of the Widrow-Hoff least mean squares filter (LMS) adaptive algorithm with his then doctoral student Ted Hoff. The LMS algorithm led to the ADALINE and MADALINE artificial neural networks and to the backpropagation technique.

Bernard Widrow - Wikipedia

Bernard Widrow is Professor Emeritus in the Electrical Engineering Department at Stanford University. His research focuses on adaptive signal processing, adaptive control systems, adaptive neural networks, human memory, cybernetics, and human-like memory for computers. Applications include signal processing, prediction, noise cancelling, adaptive arrays, control systems, and pattern recognition.

Bernard Widrow's Profile | Stanford Profiles

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His long-term ambition, to complete a textbook on adaptive signal processing, was recently realized. The book was co-authored with Samuel Stearns and published in 1985 by Prentice-Hall. Bernie Widrow is one of those individuals for whom many colleagues have both respect and affection.

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Widrow writes in a clear and easy-to-follow style which delivers all of the mathematical theory and detail of the process of adaptation without drowning the reader in formalism. Statistical signal processing, adaptation dynamics, steady-state behavior, performance - this book explains all of these fundamentals.

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Adaptive Signal Processing | Semantic Scholar

Over the past half century, Dr. Widrow's work has focused on numerous aspects of adaptive digital signal processing: noise canceling, antennas, inverse control, and non-linear filtering. He coauthored the books Adaptive Signal Processing (1985), Adaptive Control (1996), and Quantization Noise (to appear).

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He is a coauthor of Adaptive Signal Processing (Prentice-Hall) and Adaptive Inverse Control (Prentice-Hall). He is the author or coauthor of Quantization Noise (Cambridge University Press, June 2008). Dr. Widrow is a Fellow of American Association for the Advancement of Science (AAAS).

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