



# Signal Processing Advances in Wireless and Mobile Communications, Volume 1: Trends in Channel Estimation and Equalization

By Georgios B. Giannakis, Yingbo Hua, Petre Stoica, Lang Tong

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The first in a two-volume set introducing recent advances in signal processing. This text focuses on channel identification and equalization for single-user or point-to-point links. Brings together research scattered across journals worldwide. DLC: Communications.

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## **Editorial Review**

From the Back Cover

- Channel identification and equalization for single-user point-to-point links
- Bandwidth-saving blind and semi-blind algorithms and performance analysis
- Linear precoding techniques that utilize transmit redundancy
- For every engineering professional involved with signal processing for advanced communications

Key advances in channel identification and equalization for single-user point-to-point links.

*Signal Processing Advances in Communication, Volume I* is the first in a two-volume set that introduces important recent advances in signal processing (SP) tools for wireless and mobile communications. It brings together contributions by leaders in the field worldwide. This two-volume set covers an exceptionally wide range of technologies and methodologies, including noise and interference cancellation, modem design, mobile Internet services, next-generation audio/video broadcasting, cellular telephony, and wireless multimedia networks.

Volume I focuses on key advances in channel identification and equalization for single-user point-to-point links. As information-bearing signals propagate through fading media, modern equalizers must account for the variability of the mobile wireless channel, mitigate inter-symbol and co-channel interference, and suppress noise at the single- or multi-sensor receivers. This book presents the latest bandwidth-saving (semi-) blind algorithms and performance analysis, as well as linear precoding techniques that capitalize on transmit-redundancy to offer distinct improvements over training-based systems. Coverage includes:

- Subspace methods for blind identification and deconvolution
- Blind identification and equalization of channels driven by colored signals
- Optimum subspace methods; linear prediction algorithms for multichannel equalization
- Semi-blind methods for FIR multichannel estimation
- Blind decision-feedback equalization, and more

This book brings together research previously scattered across multiple journals worldwide, delivering an unprecedented collection of advanced SP techniques for optimizing single-user point-to-point links. It will be an invaluable resource for practicing engineers, researchers, managers, and any professional involved with designing or building state-of-the-art communications systems.

## **About the Author**

DR. GEORGIOS GIANNAKIS is Professor in the Electrical Engineering Department at the University of Minnesota. Giannakis' research interests include signal processing, communications, time series analysis, estimation and detection theory, and system identification. His specific areas of expertise include (poly)spectral analysis, wavelets, and cyclostationary and non-Gaussian signal processing for sonar, SAR, array and image processing applications. Formerly Professor in the Communications, Control, and Signal Processing Laboratory at the University of Virginia, he holds a Ph.D. in electrical engineering from the University of Southern California, Los Angeles.

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