Paulo S. R. Diniz

Adaptive Filtering

Algorithms and Practical Implementation

- Presents adaptive filtering algorithms in a unified framework and using a clear notation that facilitates their actual implementation
- Accompanying supplementary material including password- protected Instructor Solutions Manual, Slides in PDF and user-friendly MATLAB package available for download
- Many analytical and practical examples are included in the text
- Covers the family of LMS, affine projection, RLS and data-selective set-membership algorithms as well as non-linear, sub-band, blind and IIR adaptive filtering

In the fourth edition of Adaptive Filtering: Algorithms and Practical Implementation, author Paulo S.R. Diniz presents the basic concepts of adaptive signal processing and adaptive filtering in a concise and straightforward manner. The main classes of adaptive filtering algorithms are presented in a unified framework, using clear notations that facilitate actual implementation. The main algorithms are described in tables, which are detailed enough to allow the reader to verify the covered concepts. Many examples address problems drawn from actual applications. New material to this edition includes: Analytical and simulation examples in Chapters 4, 5, 6 and 10 Appendix E, which summarizes the analysis of set-membership algorithm Updated problems and references Providing a concise background on adaptive filtering, this book covers the family of LMS, affine projection, RLS and data-selective set-membership algorithms as well as nonlinear, sub-band, blind, IIR adaptive filtering, and more. Several problems are included at the end of chapters, and some of these problems address applications. A user-friendly MATLAB package is provided where the reader can easily solve new problems and test algorithms in a quick manner. Additionally, the book provides easy access to working algorithms for practicing engineers.

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