



# Biosignal and Medical Image Processing, Third Edition

*John L. Semmlow, Benjamin Griffel*

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Written specifically for biomedical engineers, **Biosignal and Medical Image Processing, Third Edition** provides a complete set of signal and image processing tools, including diagnostic decision-making tools, and classification methods. Thoroughly revised and updated, it supplies important new material on nonlinear methods for describing and classifying signals, including entropy-based methods and scaling methods. A full set of PowerPoint slides covering the material in each chapter and problem solutions is available to instructors for download.

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See What's New in the Third Edition:

- Two new chapters on nonlinear methods for describing and classifying signals.
- Additional examples with biological data such as EEG, ECG, respiration and heart rate variability
- Nearly double the number of end-of-chapter problems
- MATLAB® incorporated throughout the text
- Data "cleaning" methods commonly used in such areas as heart rate variability studies

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The text provides a general understanding of image processing sufficient to allow intelligent application of the concepts, including a description of the underlying mathematical principals when needed. Throughout this textbook, signal and image processing concepts are implemented using the MATLAB® software package and several of its toolboxes.

The challenge of covering a broad range of topics at a useful, working depth is motivated by current trends in biomedical engineering education, particularly at the graduate level where a comprehensive education must be attained with a minimum number of courses. This has led to the development of "core" courses to be taken by all students. This text was written for just such a core course. It is also suitable for an upper-level undergraduate course and would also be of value for students in other disciplines that would benefit from a

working knowledge of signal and image processing.

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