Geometric Methods in Signal and Image Analysis

By Professor Hamid Krim, Professor Abdessamad Ben Hamza

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This comprehensive guide offers a new approach for developing and implementing robust computational methodologies that uncover the key geometric and topological information from signals and images. With the help of detailed real-world examples and applications, readers will learn how to solve complex signal and image processing problems in fields ranging from remote sensing to medical imaging, bioinformatics, robotics, security, and defence. With an emphasis on intuitive and application-driven arguments, this text covers not only a range of methods in use today, but also introduces promising new developments for the future, bringing the reader up-to-date with the state of the art in signal and image analysis. Covering basic principles as well as advanced concepts and applications, and with examples and homework exercises, this is an invaluable resource for graduate students, researchers, and industry practitioners in a range of fields including signal and image processing, biomedical engineering, and computer graphics.

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Geometric Methods in Signal and Image Analysis By Professor Hamid Krim, Professor Abdessamad Ben Hamza Bibliography

- Sales Rank: #3768199 in Books
- Published on: 2015-08-04
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x .71" w x 6.85" l, .0 pounds
- Binding: Hardcover
- 295 pages

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Editorial Review

About the Author
H. Krim is Professor of Electrical and Computer Engineering and Director of the Vision, Information and Statistical Signal Theories and Applications group at North Carolina State University. Previously he was a Member of Technical Staff at AT&T Bell Labs and has spent nearly two decades bringing geometric and topological tools to solve real-world and applied problems in signal and image analysis, developing innovative tools which are being used in industry and government alike.

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