Cuevas / Rodriguez-Vazquez / Rivera-Aguilar

Image Processing with Python

Theory, Practice, and Applications

This book provides a comprehensive material tailored for students and professionals studying image processing. Designed to support both theoretical learning and practical implementation, the book covers a broad spectrum of essential topics in the field. These include foundational concepts such as pixel-level operations and geometric transformations, as well as advanced techniques like spatial filtering, image segmentation, edge detection, and color image processing. By integrating detailed explanations with practical examples, the book aims to equip readers with a deep understanding of image processing methods and their real-world applications, making it an invaluable guide for mastering the subject. Written with a teaching perspective, this book is designed to serve as a comprehensive textbook for undergraduate and postgraduate students specializing in Science, Electrical Engineering, or Computational Mathematics.

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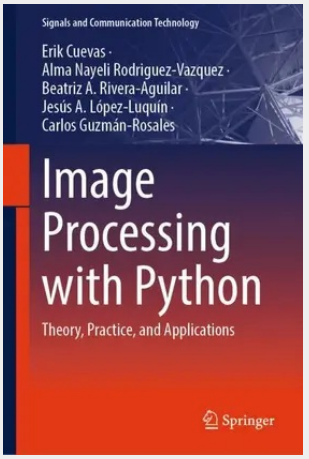

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