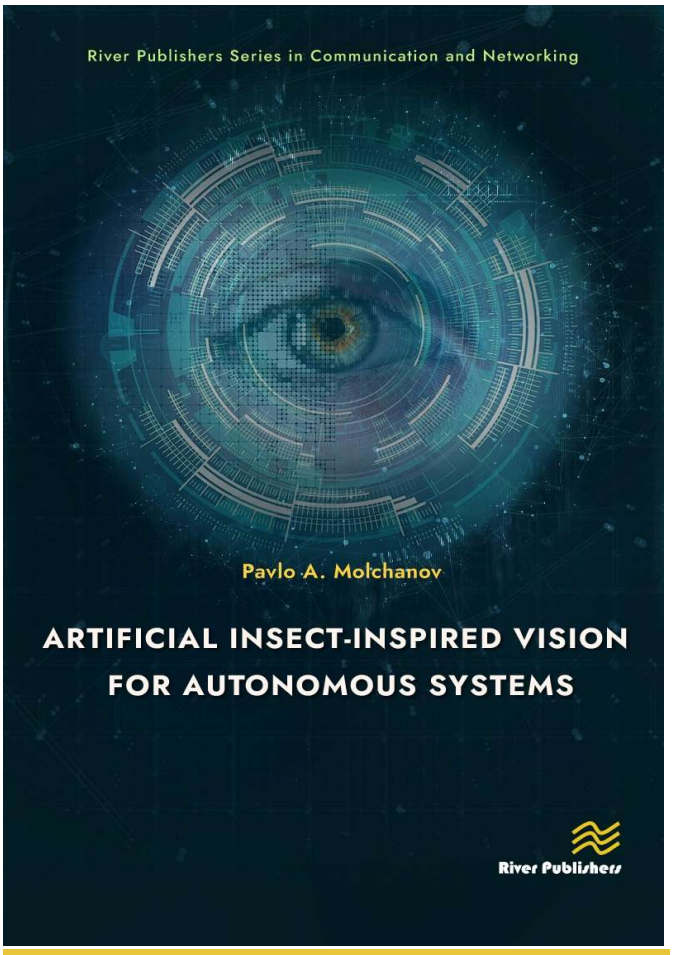
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Artificial Insect-Inspired Vision for Autonomous Systems

Author: Pavlo A. Molchanov, IPD Scientific LLC, USA



This book offers a straightforward explanation of groundbreaking artificial vision technology, which can provide limitless scalable resolution and lens-less, human-like vision with electronic control over focus, field of view, and direction. This advanced technology addresses the challenge of rapidly transferring large volumes of visual data for remote imaging systems.
It also presents the novel artificial eye concept, the foundation of this vision technology. This eye can serve as a wearable device for visually impaired individuals, eliminating the need for surgery or implants. It offers significant advancements in long-distance vision with high resolution and automatic recognition of surrounding objects.
The book also provides a concise overview of the architecture and benefits of nature-inspired antenna arrays and their potential applications, enhancing the reader's understanding and the importance of the presented vision technology.
Richly illustrated with colorful diagrams and straightforward explanations, this book is designed to facilitate understanding for readers with engineering backgrounds, customers, and students.
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- Artificial Eye
- Artificial Intelligence in Vision Systems. AI Fabric
- Applications of New High-resolution Vision technology

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