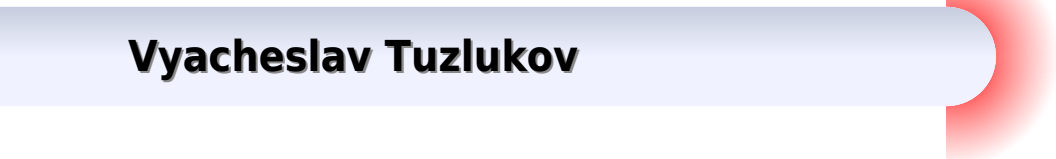




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Vyacheslav Tuzlukov



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Image Processing Wilhelm Burger, Mark J. Burge, 2012-01-19 Written as an introduction for undergraduate students, this textbook covers the most important methods in digital image processing. Formal and mathematical aspects are discussed at a fundamental level, and various practical examples and exercises supplement the text. The book uses the image processing environment ImageJ, freely distributed by the National Institute of Health. A comprehensive website supports the book and contains full source code for all examples in the book, a question and answer forum, slides for instructors, etc. Digital Image Processing in Java is the definitive textbook for computer science students studying image processing and digital processing.

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altering how we perceive Earth and our place in the universe Delving into the Cold War era the book reveals how the space race spurred rapid advancements in satellite technology enabling humanity to witness our planet from a cosmic vantage point for the first time One intriguing insight is how these early images played a crucial role in fostering environmental awareness by showcasing Earth's fragility The book examines the evolution of photographic technology capable of withstanding the harsh conditions of space alongside the scientific objectives that drove early space photography initiatives such as weather monitoring and geological surveys It presents declassified government documents technical reports and personal accounts to paint a vivid picture of this transformative period in the history of photography and space exploration Readers will learn about the technological hurdles overcome and the profound impact these images had on both the scientific community and public perception Structured to introduce the technological foundations the book progresses to explore the motivations behind these missions Major sections focus on the first images of Earth analyzing their scientific value and impact Ultimately *Early Space Photos* emphasizes the lasting legacy of early space exploration and its role in inspiring future generations

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Photonic Networks, Components And Applications - Proceedings Of The Montebello Workshop J Terry, Jacek Chrostowski, 1991-03-07 This Workshop gathered engineers and scientists to discuss their recent research and issues related to photonic networks and their topologies the enabling devices and applications these networks support Optical communication neural sensor and computer networks were considered Another part of the workshop was devoted to network components based on optical fibre semiconductor and organic materials such as lasers amplifiers and detectors integrated optic and optoelectronic circuits Applications in communications optical sensing and signal processing were addressed with particular emphasis on avionics submarine space as well as office residential medical and specialized captive services

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