Image Super-Resolution and Applications (Hardback)

By Fathi E. Abd El-Samie, Mohiy M. Hadhoud, Said E. El-Khamy

Taylor Francis Inc, United States, 2012. Hardback. Book Condition: New. 236 x 160 mm. Language: English . Brand New Book ***** Print on Demand *****.This book is devoted to the issue of image super-resolution-obtaining high-resolution images from single or multiple low-resolution images. Although there are numerous algorithms available for image interpolation and super-resolution, there s been a need for a book that establishes a common thread between the two processes. Filling this need, Image Super-Resolution and Applications presents image interpolation as a building block in the super-resolution reconstruction process. Instead of approaching image interpolation as either a polynomial-based problem or an inverse problem, this book breaks the mold and compares and contrasts the two approaches. It presents two directions for image super-resolution: super-resolution with a priori information and blind super-resolution reconstruction of images. It also devotes chapters to the two complementary steps used to obtain high-resolution images: image registration and image fusion. * Details techniques for color image interpolation and interpolation for pattern recognition * Analyzes image interpolation as an inverse problem * Presents image registration methodologies * Considers image fusion and its application in image super resolution * Includes simulation experiments along with the required MATLAB(R) code Supplying complete...

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