



Combinatorial Image Analysis

By -

Springer. Paperback. Book Condition: New. Paperback. 437 pages. Dimensions: 9.2in. x 6.1in. x 1.0in. The articles included in this volume were presented at the 13th International Workshop on Combinatorial Image Analysis, IWCA 2009, held at Playa del Carmen, Yucatan Peninsula, Mexico, November 24-27, 2009. The 12 previous meetings were held in Paris (France) 1991, Ube (Japan) 1992, Washington DC (USA) 1994, Lyon (France) 1995, Hiroshima (Japan) 1997, Madras (India) 1999, Caen (France) 2000, Philadelphia (USA) 2001, Palermo (Italy) 2003, Auckland (New Zealand) 2004, Berlin (Germany) 2006, and Bualo (USA) 2008. Image analysis is a scientific discipline which provides theoretical foundations and methods for solving problems appearing in a range of areas as diverse as biology, medicine, physics, astronomy, geography, chemistry, robotics, and industrial manufacturing. It deals with algorithms and methods aimed at extracting meaningful information from images. The processing is done through computer systems, and the focus is, therefore, on images presented in digital form. Unlike traditional approaches, which are based on continuous models requiring a lot of arithmetic computations and rounding, combinatorial approaches to image analysis (also named discrete or digital approaches) are based on studying the combinatorial properties of the digital images. They provide models and algorithms, which are generally more efficient and accurate than those based on continuous...



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