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Scale Space and Variational Methods in Computer Vision

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This book constitutes the refereed proceedings of the First International Conference on Scale Space Methods and Variational Methods in Computer Vision, SSVM 2007, emanated from the joint edition of the 4th International Workshop on Variational, Geometric and Level Set Methods in Computer Vision, VLSM 2007 and the 6th International Conference on Scale Space and PDE Methods in Computer Vision, Scale-Space 2007, held in Ischia Italy, May/June 2007.

Image processing, computational vision, robot and machine vision are terms that refer to automatic visual perception through intelligent processing of image content. Such a demand requires the development of appropriate mathematical models which reformulate the answer to the perception problem as the lowest potential of a speci?cally designed objective function. The development of such models capable of reproducing human vision is a long-shot objective in the - main. Variational methods are a very popular selection for addressing a number of components of visual perception, while scale space methods introduce the - tion of hierarchical representation of image content or property often present in biological autonomous perception organisms. This development has been made possible by two factors: ?rst, the advent of computers powerful enough to cope with the large dimensionality of the image data and the complexity of the - gorithms that operate on them (Tera?op, Terabyte); second, the availability of newmodels,methodsandalgorithms,thanksto manyexcellentmathematicians, computing scientists and engineers from all over the world. The 1st International Conference on Scale Space and Variational Methods in Computer Vision (SSVM 2007) was an attempt to bring together two di?erent communities with adjacentresearchinterests,the oneofscale-spaceanalysisand the one of variational,geometricand levelsets (VLSM). This conferencewas the joint edition of the 4th VLSM and 6th Scale Space with the aim of bringing together various disciplines working in the area of visual perception (mat-maticians, physicists, computing scientists, etc.).

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