Record Nr. UNINA9910483557603321 Scale space and PDE methods in computer vision: 5th international **Titolo** conference, Scale-Space 2005, Hofgeismar, Germany, April 7-9, 2005: proceedings / / Ron Kimmel, Nir Sochen, Joachim Weickert (eds.) Berlin; New York, : Springer, c2005 Pubbl/distr/stampa **ISBN** 3-540-32012-1 3-540-25547-8 Edizione [1st ed. 2005.] Descrizione fisica 1 online resource (XI, 634 p.) Collana Lecture notes in computer science, , 0302-9743 ; ; 3459 Altri autori (Persone) KimmelRon SochenNir WeickertJoachim <1965-> Disciplina 006.37 Soggetti Computer vision Image processing - Mathematics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Oral Presentations -- Relativistic Scale-Spaces -- Regularity and Scale-Space Properties of Fractional High Order Linear Filtering -- Image Features and the 1-D, 2 nd Order Gaussian Derivative Jet -- A New

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Sommario/riassunto

Welcome to the proceedings of the 5th International Conference on Scale-Space and PDE Methods in Computer Vision. The scale-space concept was introduced by lijima more than 40 years ago and became popular later on through the works of Witkin and Koenderink. It is at the junction of three major schools of thought in image processing and computer vision: the design of ?lters, axiomatic approaches based on partial di?erential equations (PDEs), and variational methods for image regularization. Scale-space ideas belong to the mathematically bestunderstood approaches in image analysis. They have entered numerous successful applications in medical imaging and a number of other ?elds where they often give results of very high quality. This conference followed biennial meetings held in Utrecht, Corfu, Vancouver and Skye. It took place in a little castle (Schl" osschen Sch" onburg) near the small town of Hofgeismar, Germany. Inspired by the very successful previous meeting at Skye, we kept the style of gathering people in a slightly remote and scenic place in order to encourage many fruitful discussions during the day and in the evening. Wereceived79fullpapersubmissionsofahighstandardthatischaracteristic for the scale-space conferences. Each paper was reviewed by three experts from the Program Committee, sometimes helped by additional reviewers. Based on theresultsofthesereviews,53paperswereaccepted.

Weselected24manuscripts for oral presentation and 29 for poster

presentation.