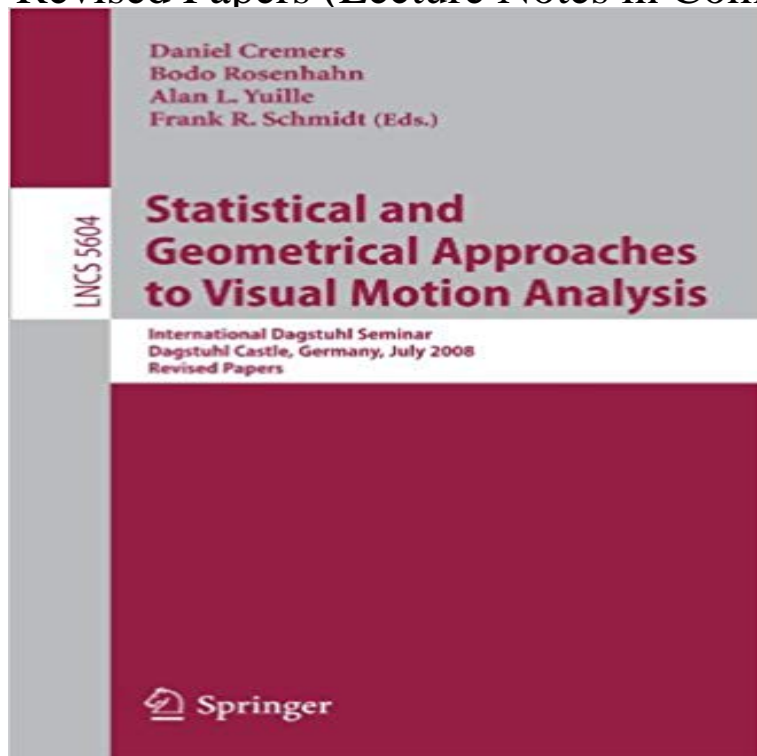


Statistical and Geometrical Approaches to Visual Motion Analysis: International Dagstuhl Seminar, Dagstuhl Castle, July 13-18, 2008, Revised Papers (Lecture Notes in Computer Science)



Motion analysis is central to both human and machine vision. It involves the interpretation of image data over time and is crucial for a range of motion tasks such as obstacle detection, depth estimation, video analysis, scene interpretation, video compression and other applications.

Motion analysis is unsolved because it requires modeling of the complicated relationships between the observed image data and the motion of objects and motion patterns (e. g., falling rain) in the visual scene. The Dagstuhl Seminar 08291 on Statistical and Geometrical Approaches to Visual Motion Analysis was held during July 13-18, 2008 at the International Conference and Research Center (IBFI), Schloss Dagstuhl, near Wadern in Germany. The workshop focused on critical aspects of motion analysis, including motion segmentation, the modeling of motion patterns and the different techniques used. These techniques include variational approaches, level set methods, probabilistic models, graph cut approaches, factorization techniques, and neural networks. All these techniques can be subsumed within statistical and geometrical frameworks. We further involved experts in the study of human and primate vision. Primate visual systems are extremely sophisticated at processing motion, thus there is much to be learnt from studying them. In particular, we discussed how to relate the computational models of primate visual systems to those developed for machine vision. In total, 15 papers were accepted for these proceedings after the workshop. We were careful to ensure a high standard of quality for the accepted papers. All submissions were double-blind reviewed by at least two experts.

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(Lecture notes in computer science : 6051 : Article pp. Statistical and Geometrical Approaches to Visual Motion Analysis : International Dagstuhl Seminar, Dagstuhl Castle, July 13 - 18, 2008, Revised Papers. **The Conformal Monogenic Signal of Image Sequences - Springer** Buy Statistical and Geometrical Approaches to Visual Motion Analysis: International Dagstuhl Seminar, Dagstuhl Castle, July 13-18, 2008, Revised Papers (Lecture Notes in Computer Science) by Approaches to Visual Motion Analysis was held during July 13-18, 2008 at the International **Statistical and Geometrical Approaches to Visual Motion Analysis** (Lecture notes in computer science 10145 : article) (Workshop on Visual Performance Analysis VPA 2014) The design of slow-motion feedback : article in DIS 14 Proceedings of the 2014 conference on Visual Motion Analysis : International Dagstuhl Seminar, Dagstuhl Castle, July 13 - 18, 2008, Revised Papers. **Dense Point Trajectories by GPU-accelerated Large Displacement** Chapter. 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