

Real-time Detection Of Lines And Grids

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This text provides a survey of the latest research into the Hough transform for line detection and its contemporary developments. Written with students in mind, this work can serve as a condensed textbook and as a reference for practitioners working in computer vision. The text also presents an overview and detailed elaboration of recent research related to PClines - a line parameterization based on parallel coordinates. A detailed analysis of the concept is given, including implementation details and measurements. One chapter discusses the detection of chessboard-like patterns, and sets of parallel lines and lines coincident with one (vanishing) point a topic with many applications, such as 2D barcodes, aerial images, and architecture recognition. The work summarizes recent research in the field, and analyses new advances achieved using the PClines parameterization. EAN/ISBN : 9781447144144
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