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Autore	Verner Dorte
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Nota di contenuto	Cover; Contents; Preface; Acknowledgments; Executive Summary; The Climate Is Getting Hotter, Dryer, and More Variable; Figures; Figure ES.1 Twentieth-Century Mean Temperatures (Left) and Precipitation (Right), Tunisia; Warming and Drying Trends Continue Exacerbating Water Scarcity; Figure ES.2 Range of Changes in Monthly Mean TMAX (°C) and PRCP (Percent), Tunis; Increased Climate Variability and Change Impact Food Security and GDP; Poor People and Communities Are Among the Most Vulnerable to Climate Change; Figure ES.3 Impacts of Combined Climate Changes on Household Incomes Climate Change Adaptation Should Be an Integrated Part of Public Sector Management for Sustainable Development Figure ES.4 Framework for Action on Climate Change Adaptation: Adaptation Pyramid; Adaptation Decision Making Must Be Supported by a Range of Policy Measures; There Are a Number of Priority Investments for Tunisia; Tables; Table ES.1 Policy Matrix; Notes; References; Chapter 1 Climate Change Is Happening and People Are Affected; Boxes; Box 1.1 IPCC Definitions: Climate, Climate Change, and Climate Variability; Box 1.2 Ongoing Work in Tunisia on Climate Change Climate Change Is Happening Now Climate Change Impacts Are Socially

Differentiated; Box 1.3 Geographic and Social Political Context; Climate Change Impacts People and the Economy; Table 1.1 Socioeconomic Information for Selected Arab Countries; Climate Change Adaptation Is about Reducing Vulnerability; Box 1.4 Definition of Climate Change Adaptation; Climate Change Adaptation Should Be an Integrated Part of Public Sector Management for Sustainable Development; Figure 1.1 Conceptual Framework for Defining Vulnerability
Figure 1.2 Framework for Action on Climate Change Adaptation: Adaptation Pyramid Notes; Box 1.5 Gender and Climate Change in Tunisia; References; Chapter 2 A Synthesis of Climate Change Scenarios and Impacts; Finding Evidence of a Changing Climate; A Land of Contrasting Climates; Figure 2.1 Monthly Mean Precipitation, Maximum and Minimum Temperatures; Warmer Everywhere, Drier in the North, and Rising Seas; Figure 2.2 Mean Annual Precipitation for Northern Tunisia, 1961-2000; Figure 2.3 Twentieth-Century Mean Temperatures (Left) and Precipitation (Right)
Figure 2.4 Twentieth-Century Seasonal Mean Temperatures Figure 2.5 Annual Mean Temperatures for Selected Stations; Figure 2.6 Regional Variations in the Trend in Annual Mean Temperature (Left) with Corresponding Statistical Significance Levels (Right) for the Years, 1951-2002; Figure 2.7 Seasonal Temperature Trends (°C/yr), 1951-2002; Figure 2.8 Twentieth-Century Seasonal Precipitation Totals; Figure 2.9 Regional Variations in the Trend in Annual Precipitation Totals (Left) Since the 1950's with Corresponding Statistical Significance Levels (Right)
Figure 2.10 Seasonal Precipitation Trends (%/yr) 1951-2002

Sommario/riassunto

Tunisia in a Changing Climate: Assessment and Actions for Increased Resilience and Development is part of the World Bank Studies series. These papers are published to communicate the results of the Bank's ongoing research and to stimulate public discussion.This book provides an assessment of climate risks, as well as opportunities and possible actions for addressing climate change, in Tunisia. It recognizes that the Tunisian revolution of January 14th, 2011, created significant change in the country, resulting in new challenges and opportunities for addressing further change. Following the revolution

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Nota di contenuto	Robot Vision; Contents; List of Figures; Symbols and Abbreviations; 1 Introduction; 2 Image Processing; 2.1 Color Models; 2.2 Filtering; 2.2.1 Kalman Filter; 2.2.2 Gabor Filter; 2.2.3 Application of the Gabor Filter; 2.3 Morphological Image Processing; 2.3.1 The Structuring Element; 2.3.2 Erosion; 2.3.3 Dilation; 2.4 Edge Detection; 2.5 Skeleton Procedure; 2.6 The Segmentation of Image Regions; 2.7 Threshold; 3 Navigation; 3.1 Coordinate Systems; 3.2 Representation Forms; 3.2.1 Grid-based Maps; 3.2.2 Graph-based Maps; 3.3 Path Planning; 3.3.1 Topological Path Planning 3.3.2 Behavior-based Path Execution3.3.3 Global Path Planning; 3.3.4 Local Path Planning; 3.3.5 The Combination of Global and Local Path Planning; 3.4 The Architecture of a Multilevel Map Representation; 3.5 Self-localization; 4 Vision Systems; 4.1 The Human Visual Apparatus; 4.1.1 The Functionality; 4.1.2 The Visual Cortex; 4.2 The Human Visual

Apparatus as Model for Technical Vision Systems; 4.2.1 Attention Control; 4.2.2 Passive Vision; 4.2.3 Active Vision; 4.2.4 Space-variant Active Vision; 4.3 Camera Types; 4.3.1 Video Cameras; 4.3.2 CCD Sensors; 4.3.3 Analog Metric Cameras; 5 CAD
5.1 Constructive Solid Geometry5.2 Boundary-representation Schema (B-rep); 5.3 Approximate Models; 5.3.1 Octrees; 5.3.2 Extended Octrees; 5.3.3 Voxel Model; 5.4 Hybrid Models; 5.5 Procedures to Convert the Models; 5.6 The Use of CAD in Computer Vision; 5.6.1 The Approximation of the Object Contour; 5.6.2 Cluster Search in Transformation Space with Adaptive Subdivision; 5.6.3 The Generation of a Pseudo-B-rep Representation from Sensor Data; 5.7 Three-dimensional Reconstruction with Alternative Approaches; 5.7.1 Partial Depth Reconstruction
5.7.2 Three-dimensional Reconstruction with Edge Gradients5.7.3 Semantic Reconstruction; 5.7.4 Mark-based Procedure; 6 Stereo Vision; 6.1 Stereo Geometry; 6.2 The Projection of the Scene Point; 6.3 The Relative Motion of the Camera; 6.4 The Estimation of the Fundamental Matrix B; 6.5 Image Rectification; 6.6 Ego-motion Estimation; 6.7 Three-dimensional Reconstruction by Known Internal Parameters; 6.8 Three-dimensional Reconstruction by Unknown Internal and External Parameters; 6.8.1 Three-dimensional Reconstruction with Two Uncalibrated Cameras
6.8.2 Three-dimensional Reconstruction with Three or More Cameras6.9 Stereo Correspondence; 6.9.1 Correlation-based Stereo Correspondence; 6.9.2 Feature-based Stereo Correspondence; 6.10 Image-sequence Analysis; 6.11 Three-dimensional Reconstruction from Image Sequences with the Kalman Filter; 7 Camera Calibration; 7.1 The Calibration of One Camera from a Known Scene; 7.1.1 Pinhole-camera Calibration; 7.1.2 The Determination of the Lens Distortion; 7.2 Calibration of Cameras in Robot-vision Systems; 7.2.1 Calibration with Moving Object; 7.2.2 Calibration with Moving Camera
8 Self-learning Algorithms

Sommario/riassunto

The book is intended for advanced students in physics, mathematics, computer science, electrical engineering, robotics, engine engineering and for specialists in computer vision and robotics on the techniques for the development of vision-based robot projects. It focusses on autonomous and mobile service robots for indoor work, and teaches the techniques for the development of vision-based robot projects. A basic knowledge of informatics is assumed, but the basic introduction helps to adjust the knowledge of the reader accordingly.A practical treatment of the material enables a comprehensi