Contents

Preface.....	ix
Contributors.....	xi
1 Kernel-Based Nonlinear Subspace Target Detection for Hyperspectral Imagery.....	1
<i>Heesung Kwon and Nasser M. Nasrabadi</i>	
2 Theory of Invariant Algebra and Its Use in Automatic Target Recognition.....	25
<i>Firooz Sadjadi</i>	
3 Automatic Recognition of Underground Targets Using Time–Frequency Analysis and Optimization Techniques.....	41
<i>Guillermo C. Gaunaurd and Hans C. Strifors</i>	
4 A Weighted Zak Transform, Its Properties, and Applications to Signal Processing.....	57
<i>Izidor Gertner and George A. Geri</i>	
5 Using Polarization Features of Visible Light for Automatic Landmine Detection.....	73
<i>Wim de Jong and John Schavemaker</i>	
6 The Physics of Polarization-Sensitive Optical Imaging....	91
<i>Cornell S. L. Chun</i>	
7 Dispersion, Its Effects, and Compensation.....	105
<i>Leon Cohen and Patrick Loughlin</i>	
8 Multisensor Target Recognition in Image Response Space Using Evolutionary Algorithms.....	127
<i>Igor Maslov and Izidor Gertner</i>	

9	Biophysics of the Eye in Computer Vision: Methods and Advanced Technologies	143
	<i>Riad I. Hammoud and Dan Witzner Hansen</i>	
10	Two Approaches to 3D Microorganism Recognition Using Single Exposure Online (SEOL) Digital Holography	175
	<i>Seokwon Yeom, Inkyu Moon, and Bahram Javidi</i>	
11	Distortion-Tolerant 3D Object Recognition by Using Single Exposure On-Axis Digital Holography	195
	<i>Daesuk Kim and Bahram Javidi</i>	
12	Design of Distortion-Invariant Optical ID Tags for Remote Identification and Verification of Objects.....	207
	<i>Elisabet Pérez-Cabré, María Sagrario Millán, and Bahram Javidi</i>	
13	Speckle Elimination With a Maximum Likelihood Estimation and an Isoline Regularization.....	227
	<i>Nicolas Bertaux, Yann Frauel, and Bahram Javidi</i>	
	Index.....	245