

# A Sparsity-Based Approach for Spectral Image Target Detection from Compressive Measurements Acquired by the CASSI Architecture<sup>1</sup>

Un enfoque basado en escasez para detectar objetivos en imágenes espectrales a partir de medidas compresivas adquiridas por la arquitectura CASSI<sup>2</sup>

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<sup>1</sup> Submitted on : July 4th, 2016 . Accepted on : May 19th, 2017. This paper is derived from a research project named "Detection and Classification in spectral image obtained through compressive acquisition system with a single pixel detector," with WIE code 1802, developed by the HDSP research group of Universidad Industrial de Santander, Bucaramanga, Colombia .

<sup>2</sup> Fecha de recepción : 4 de julio de 2016. Fecha de aceptación : 19 de mayo de 2017. Artículo de investigación científica y tecnológica . Este artículo se deriva de un proyecto de investigación denominado "Detección y clasificación en imágenes espectrales obtenidas a través de un sistema de adquisición compresiva con un detector de un solo píxel", con código WIE 1802, desarrollado por el grupo de investigación HDSP de la Universidad Industrial de Santander, Bucaramanga, Colombia .

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# A Kernelized Sparsity Based Approach For Best Spectral

**Graham F. Carey**



## **A Kernelized Sparsity Based Approach For Best Spectral:**

**Face Recognition Across the Imaging Spectrum** Thirimachos Bourlai, 2016-02-12 This authoritative text reference presents a comprehensive review of algorithms and techniques for face recognition FR with an emphasis on systems that can be reliably used in operational environments Insights are provided by an international team of pre eminent experts into the processing of multispectral and hyperspectral face images captured under uncontrolled environments These discussions cover a variety of imaging sensors ranging from state of the art visible and infrared imaging sensors to RGB D and mobile phone image sensors A range of different biometric modalities are also examined including face periocular and iris This timely volume is a mine of useful information for researchers practitioners and students involved in image processing computer vision biometrics and security

**Deep Biometrics** Richard Jiang, Chang-Tsun Li, Danny Crookes, Weizhi Meng, Christophe Rosenberger, 2020-01-28 This book highlights new advances in biometrics using deep learning toward deeper and wider background deeming it Deep Biometrics The book aims to highlight recent developments in biometrics using semi supervised and unsupervised methods such as Deep Neural Networks Deep Stacked Autoencoder Convolutional Neural Networks Generative Adversary Networks and so on The contributors demonstrate the power of deep learning techniques in the emerging new areas such as privacy and security issues cancellable biometrics soft biometrics smart cities big biometric data biometric banking medical biometrics healthcare biometrics and biometric genetics etc The goal of this volume is to summarize the recent advances in using Deep Learning in the area of biometric security and privacy toward deeper and wider applications Highlights the impact of deep learning over the field of biometrics in a wide area Exploits the deeper and wider background of biometrics such as privacy versus security biometric big data biometric genetics and biometric diagnosis etc Introduces new biometric applications such as biometric banking internet of things cloud computing and medical biometrics

**Image and Video Technology** Thomas Bräunl, Brendan McCane, Mariano Rivera, Xinguo Yu, 2016-02-03 This book constitutes the thoroughly refereed post conference proceedings of the 7th Pacific Rim Symposium on Image and Video Technology PSIVT 2015 held in Auckland New Zealand in November 2015 The total of 61 revised papers was carefully reviewed and selected from 133 submissions The papers are organized in topical sections on color and motion image video coding and transmission computational photography and arts computer vision and applications image segmentation and classification video surveillance biomedical image processing and analysis object and pattern recognition computer vision and pattern recognition image video processing and analysis and pattern recognition

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recognition sensor fusion and super resolution for robust multispectral and hyperspectral image understanding It presents research from leading international experts who have made foundational contributions in these areas The book covers a diverse array of applications of multispectral hyperspectral imagery in the context of these algorithms including remote sensing face recognition and biomedicine This book would be particularly beneficial to graduate students and researchers who are taking advanced courses in or are working in the areas of image analysis machine learning and remote sensing with multi channel optical imagery Researchers and professionals in academia and industry working in areas such as electrical engineering civil and environmental engineering geosciences and biomedical image processing who work with multi channel optical data will find this book useful

**Intelligent Computing Theories and Application** De-Shuang Huang,Kang-Hyun Jo,Jianqiang Li,Valeriya Gribova,Vitoantonio Bevilacqua,2021-08-09 This two volume set of LNCS 12836 and LNCS 12837 constitutes in conjunction with the volume LNAI 12838 the refereed proceedings of the 17th International Conference on Intelligent Computing ICIC 2021 held in Shenzhen China in August 2021 The 192 full papers of the three proceedings volumes were carefully reviewed and selected from 458 submissions The ICIC theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications The theme for this conference is Advanced Intelligent Computing Methodologies and Applications The papers are organized in the following subsections Evolutionary Computation and Learning Image and signal Processing Information Security Neural Networks Pattern Recognition Swarm Intelligence and Optimization and Virtual Reality and Human Computer Interaction

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