



Figure 2. The deep neural network structure of the proposed pan-sharpening framework called PanNet.

Pannet A Deep Network Architecture For Pan Sharpening

Arian Azarang, Nasser Kehtarnavaz



Pannet A Deep Network Architecture For Pan Sharpening:

Computer Vision - ECCV 2022 Shai Avidan, Gabriel Brostow, Moustapha Cissé, Giovanni Maria Farinella, Tal Hassner, 2022-11-02 The 39 volume set comprising the LNCS books 13661 until 13699 constitutes the refereed proceedings of the 17th European Conference on Computer Vision ECCV 2022 held in Tel Aviv Israel during October 23 27 2022 The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation

Image Fusion in Remote Sensing Arian Azarang, Nasser Kehtarnavaz, 2021-02-24 Image fusion in remote sensing or pansharpening involves fusing spatial panchromatic and spectral multispectral images that are captured by different sensors on satellites This book addresses image fusion approaches for remote sensing applications Both conventional and deep learning approaches are covered First the conventional approaches to image fusion in remote sensing are discussed These approaches include component substitution multi resolution and model based algorithms Then the recently developed deep learning approaches involving single objective and multi objective loss functions are discussed Experimental results are provided comparing conventional and deep learning approaches in terms of both low resolution and full resolution objective metrics that are commonly used in remote sensing The book is concluded by stating anticipated future trends in pansharpening or image fusion in remote sensing

Super-Resolution for Remote Sensing Michal Kawulok, Jolanta Kawulok, Bogdan Smolka, M. Emre Celebi, 2024-10-14 This book provides a comprehensive perspective over the landscape of super resolution techniques developed for and applied to remotely sensed images The chapters tackle the most important problems that professionals face when dealing with super resolution in the context of remote sensing These are evaluation procedures to assess the super resolution quality benchmark datasets simulated and real life super resolution for specific data modalities e g panchromatic multispectral and hyperspectral images single image super resolution including generative adversarial networks multi image fusion temporal and or spectral real world super resolution and task driven super resolution The book presents the results of several recent surveys on super resolution specifically for the remote sensing community

MultiMedia Modeling Björn Þór Jónsson, Cathal Gurrin, Minh-Triet Tran, Duc-Tien Dang-Nguyen, Anita Min-Chun Hu, Binh Huynh Thi Thanh, Benoit Huet, 2022-03-14 The two volume set LNCS 13141 and LNCS 13142 constitutes the proceedings of the 28th International Conference on MultiMedia Modeling MMM 2022 which took place in Phu Quoc Vietnam during June 6 10 2022 The 107 papers presented in these proceedings were carefully reviewed and selected from a total of 212 submissions They focus on topics related to multimedia content analysis multimedia signal processing and communications and multimedia applications and services

Deep Learning for the Earth Sciences

Gustau Camps-Valls, Devis Tuia, Xiao Xiang Zhu, Markus Reichstein, 2021-08-16 DEEP LEARNING FOR THE EARTH SCIENCES Explore this insightful treatment of deep learning in the field of earth sciences from four leading voices Deep learning is a fundamental technique in modern Artificial Intelligence and is being applied to disciplines across the scientific spectrum earth science is no exception Yet the link between deep learning and Earth sciences has only recently entered academic curricula and thus has not yet proliferated Deep Learning for the Earth Sciences delivers a unique perspective and treatment of the concepts skills and practices necessary to quickly become familiar with the application of deep learning techniques to the Earth sciences The book prepares readers to be ready to use the technologies and principles described in their own research The distinguished editors have also included resources that explain and provide new ideas and recommendations for new research especially useful to those involved in advanced research education or those seeking PhD thesis orientations Readers will also benefit from the inclusion of An introduction to deep learning for classification purposes including advances in image segmentation and encoding priors anomaly detection and target detection and domain adaptation An exploration of learning representations and unsupervised deep learning including deep learning image fusion image retrieval and matching and co registration Practical discussions of regression fitting parameter retrieval forecasting and interpolation An examination of physics aware deep learning models including emulation of complex codes and model parametrizations Perfect for PhD students and researchers in the fields of geosciences image processing remote sensing electrical engineering and computer science and machine learning Deep Learning for the Earth Sciences will also earn a place in the libraries of machine learning and pattern recognition researchers engineers and scientists

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