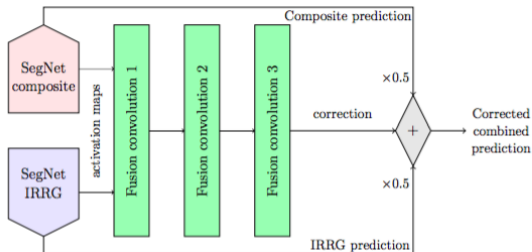


Semantic Segmentation of Earth Observation Data Using Multimodal and Multi-scale Deep Networks

N. Audebert, B. L. Saux, S Lefevre (ARXIV 2016)



- ▶ Investigates the use of deep fully convolutional neural networks for pixel-wise scene labeling of Earth Observation images
- ▶ Contributions:
 - ▶ Transfers efficiently a deep fully convolutional neural networks from generic everyday images to remote sensing images
 - ▶ Introduces a multi-kernel convolutional layer for fast aggregation of predictions at multiple scales
 - ▶ Performs data fusion from heterogeneous sensors (optical and laser) using residual correction
- ▶ Evaluates on ISPRS Vaihingen 2D Semantic Labeling dataset