Quadratic Forms in Convolutional Neural Networks

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1 Introduction

2 Background

Amongst others,

1. Bellaard, Sakata, Smets, and Duits (2024) and Smets, Portegies, Bekkers, and Duits (2023) for general reading about morphological operators

2. Blankenstein (2022) for the previous thesis

References

Bellaard, G., Sakata, S., Smets, B. M. N., & Duits, R. (2024). *Pde-cnns: Axiomatic derivations and applications.* Retrieved 2025-03-31, from `https://arxiv.org/abs/2403.15182`

Blankenstein, T. (2022). Investigating the parabolic dilation as the max pooling operation in deep learning. Retrieved 2025-03-31, from `https://scripties.uba.uva.nl/search?id=record_53154`

Smets, B. M., Portegies, J., Bekkers, E. J., & Duits, R. (2023). Pde-based group equivariant convolutional neural networks. *Journal of Mathematical Imaging and Vision*, *65*(1), 209–239.