

Status Masterarbeit

Network Overview

Segmentation Strategy

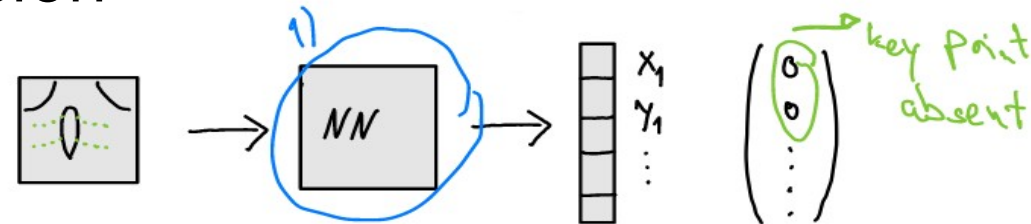
Registration

Anmeldung

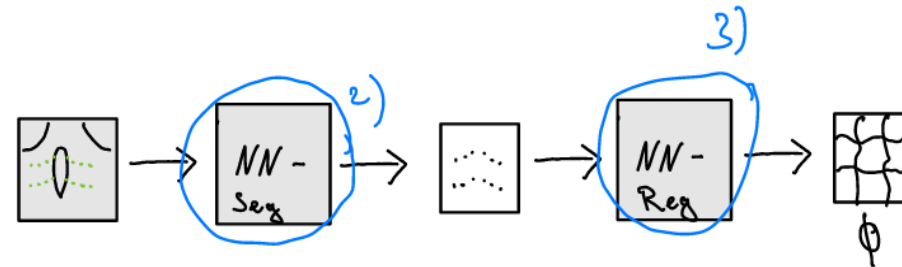
Buch Image Registration

Referenzschreiben

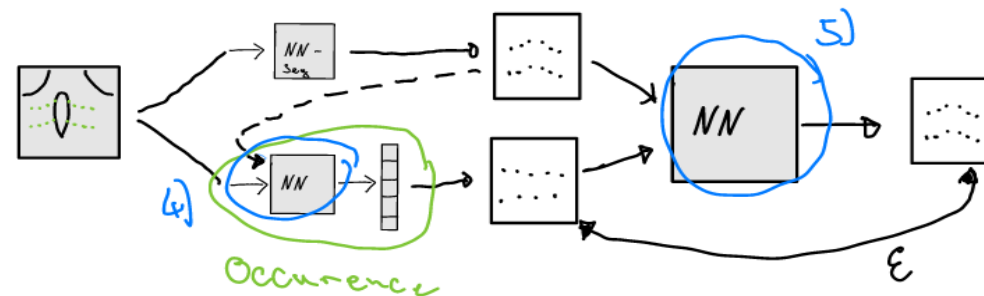
1) Supervised Regression



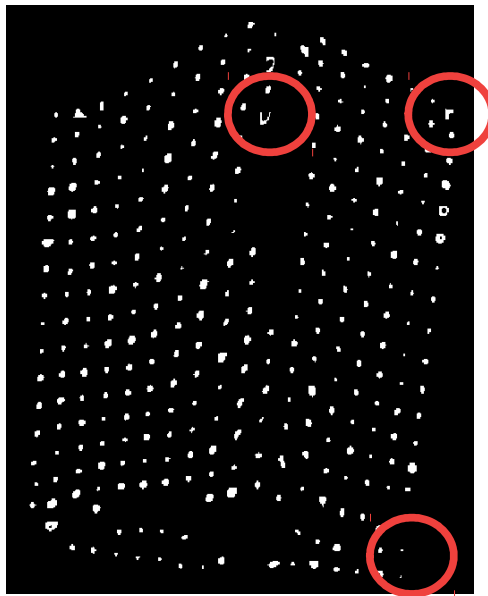
2) Supervised Nonrigid Registration



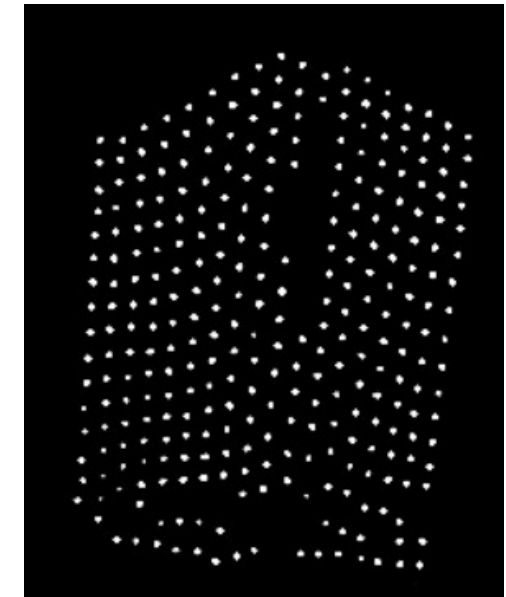
3) Unsupervised Nonrigid Registration



We have only labeled a key point. Training on one labeled pixel does **not** promote robust results! Deriving a proper segmentation is not trivial. Therefore, understand the semantic behind our segmentation as finding a key point and a small circular neighborhood.



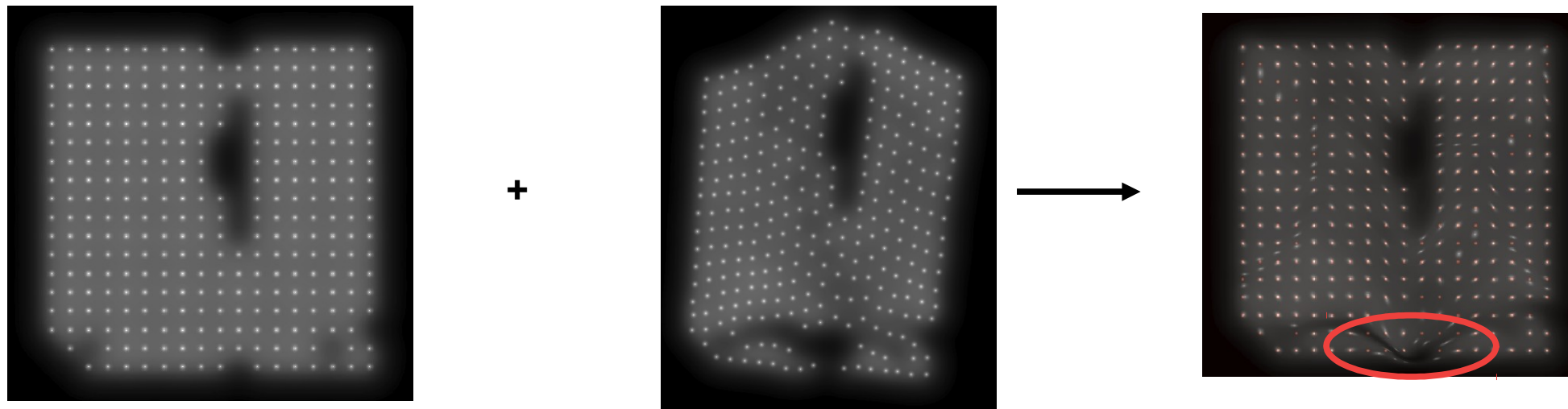
Overfitted
d
Network



ANTs

→ Background information added to create smooth image for meansquares error.

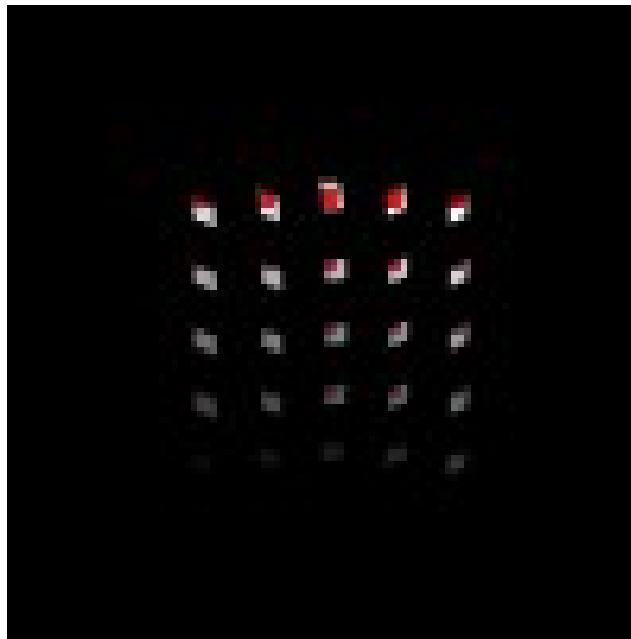
→ Additionally tried point-set expectation (PSE) as error, but could not converge! Exact Matching!? No, based on an expectation the spatial distance is computed!!! **How can we use it?**

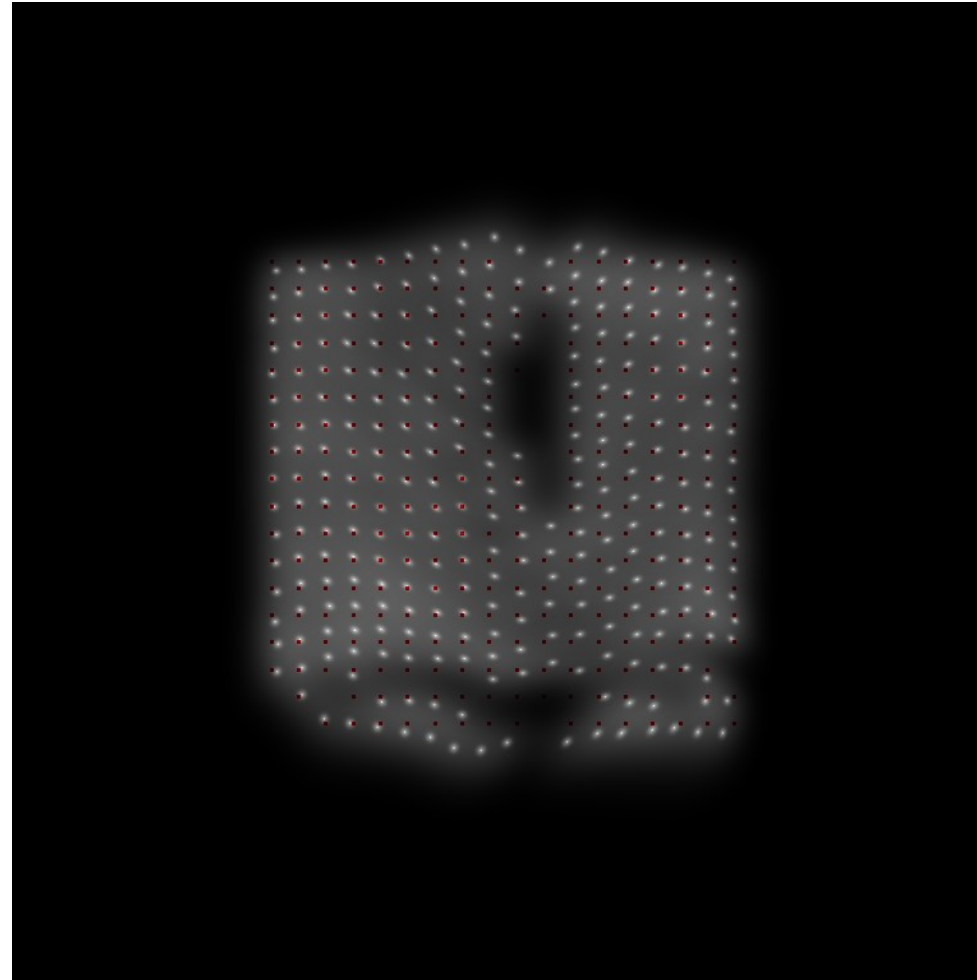


**misinterpreted
boundaries**

ANTs

→ According to paper “ANTs: Open-Source Tools ...” also a exact landmark matching based on B-spline seems to be possible!





→ How can we improve results?

→ Look for other framework?