Diploma Thesis

Image Registration using the Discrepancy Norm

Project description

A wide-spread task in modern computer vision is the matching (registration) of two images such that their overlay is as perfect as possible (Example: You have a logo and search the appearance of this one in a bigger image.).

A huge number of different algorithms to perform this task have been proposed in the last years, all of them with specific strengths and weaknesses.

In this diploma thesis one should have a closer look to the properties of the so called “Discrepancy Norm”.

An application for funding (FWF) for follow up PhD-projects is pending.

Prerequisites

Some knowledge in at least one of the following areas is mandatory:

- Image processing
- General Numerics
- Stochastics

Supervisors

Dr. Frank Bauer
Dr. Bernhard Moser (SCCH)
Prof. Peter Klement

Miscellaneous

The project will be done in close collaboration with the Software Competence Center Hagenberg; parts of the working time should be spent there.

Literature


Contact

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