

Joint Super-Resolution and Optical Flow Estimation

Sebastian Kümper, Philipp Krueger, Jonas Sticha

Technische Universität München
Department of Informatics
Computer Vision Group

October 6th, 2015



Outline

- 1 Introduction
- 2 Energy Minimization Approach
- 3 Results
- 4 Future Work



Outline

- 1 Introduction
- 2 Energy Minimization Approach
- 3 Results
- 4 Future Work



Introduction

- Super-Resolution
 - Example Pictures



Introduction

- Optical Flow Estimation
 - Example Pictures



Outline

- 1 Introduction
- 2 Energy Minimization Approach**
- 3 Results
- 4 Future Work



Energy Minimization Approach

- Schema des Ansatzes

- .

- .

- .



Outline

- 1 Introduction
- 2 Energy Minimization Approach
- 3 Results**
- 4 Future Work



Results

■ Results

- .
- .



Outline

- 1 Introduction
- 2 Energy Minimization Approach
- 3 Results
- 4 Future Work**



Conclusion and Future Work

- More than two input images
- Arbitrary Scaling (aktuell nur $\times 2$)
- Flow Estimation nur max. 1 Pixel Bewegungen



Bibliography I