

Antonin Sulc

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| CONTACT INFORMATION | Reutestr. 80 Konstanz, 78467 | +49 152 2657 5325 sulc.antonin@gmail.com |
| RESEARCH INTERESTS | computer vision, 3D reconstruction, pattern recognition, machine learning, | |
| EDUCATION | University of Konstanz , Konstanz, Germany Ph.D., Computer Vision, <ul style="list-style-type: none">• Thesis Topic: <i>Lightfield Analysis for non-Lambertian Scenes</i>• Advisors: Prof. Dr. Bastian Goldlücke Czech Technical University , Prague, Czech Republic M.S., Artificial Intelligence, 2011 - 2014 <ul style="list-style-type: none">• Topic: <i>On parametric model creation with Neural Modeling Fields</i>, nominated as CS Master Thesis of Year 2014 in Czech Republic• Advisor: Dr. Michal Vavrecka B.S., Intelligent Systems, 2008 - 2011 <ul style="list-style-type: none">• Topic: <i>Covariance Matrix Adaptation Evolution Strategy</i>• Advisor: Dr. Jan Drchal | |
| EXPERIENCE | Vendavo Software Engineer, Vendavo Inc., MAAS Team, Building a Recommendation System Supervisor: Dr. Ludek Kopacek, Eric Bergerson | Feb 2014 to Dec 2015 |
| RESEARCH EXPERIENCE | Computer Vision Intern National Institute of Informatics in Tokyo, Imari Lab Supervisor: Prof. Dr. Imari Sato | Oct 2018 to March 2019 |
| | Research Assistant Centre for Machine Perception, Department of Cybernetics, Czech Technical University in Prague Supervisor: Prof. Dr. Tomas Pajdla | Jun 2013 to Feb 2014 |
| | Research Assistant Agent Technology Center, Department of Cybernetics, Czech Technical University in Prague Supervisor: Dr. Martin Rehak, Prof. Dr. Michal Pechoucek | Jun 2010 to Feb 2011 |
| CONFERENCE PUBLICATIONS | <ol style="list-style-type: none">1. A. Sulc, O. Johannsen, B. Goldluecke. Inverse Lightfield Rendering for Shape, Reflection and Natural Illumination. In <i>Proc. 11th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR)</i>, 2017.2. O. Johannsen, A. Sulc, N. Marniok, B. Goldluecke. Layered scene reconstruction from multiple light field camera views. In <i>Proc. Asian Conference on Computer Vision (ACCV)</i>, 2016. | |

3. **A. Sulc**, A. Alperovich, N. Marniok, B. Goldluecke. Reflection Separation in Light Fields based on Sparse Coding and Specular Flow. In *Proc. Vision, Modelling and Visualization (VMV)*, 2016.
4. O. Johannsen, **A. Sulc**, B. Goldluecke. Occlusion-aware depth estimation using sparse light field coding. In *Proc. German Conference on Computer Vision (GCPR)*, 2016.
5. O. Johannsen, **A. Sulc**, B. Goldluecke. What Sparse Light Field Coding Reveals About Scene Structure. In *Proc. Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.
6. O. Johannsen, **A. Sulc**, B. Goldluecke. Variational Separation of Light Field Layers. In *Proc. Vision, Modelling and Visualization (VMV)*, 2015.
7. O. Johannsen, **A. Sulc**, B. Goldluecke. On Linear Structure from Motion for Light Field Cameras. In *Proc. International Conference on Computer Vision (ICCV)*, 2015.

PRESENTATIONS

- Light-fields: Beyond the Lambertian, *The 38th Pattern Recognition and Computer Vision Colloquium*, Spring 2016, Prague, Czech Republic
- Light-field Analysis for non-Lambertian Scenes, *The 11th IMPACT Seminar*, Winter 2017, Prague, Czech Republic

TEACHING
EXPERIENCE

Co-instructor, University of Konstanz

Image Analysis and Computer Vision I,
Image processing, Feature Detection, 3D reconstruction

Image Analysis and Computer Vision II,
Pattern Recognition, Graphical Models, Variational methods

Deep Learning in Computer Vision (Seminar),
Deep Learning, MatConvNet

Deep Learning in Computer Vision,
TensorFlow, CNNs, Auto-Encoders, GANs

REFERENCES

- Prof. Dr. Bastian Goldluecke, bastian.goldluecke@uni-konstanz.de
Professor, Computer Vision and Image Analysis
University of Konstanz, Germany
- Dr. Ulrich Bodenhofer, bodenhofer@bioinf.jku.at
Associate Professor, Institute of Bioinformatics
Johannes Kepler University Linz
- Dr. Christoph Kleinedam, christoph.kleinedam@uni-konstanz.de
Researcher, Behavioral Neurobiology, Social Organization in Insects
University of Konstanz
- Dr. Tomas Pajdla, pajdla@cmp.felk.cvut.cz
Assistant Professor, Centre for Machine Perception,
Czech Technical University in Prague

SOFTWARE SKILLS MATLAB, Python, TensorFlow, CUDA, C, C++, MatConvNet, R

LANGUAGES Czech (native), English (C1) , German (B1)