Marcus Klasson CV

Email: marcus.klasson@aalto.fi
Website: https://marcusklasson.github.io
Github Profile
Google Scholar Profile

Academic Experience

Aalto University, Finland — Feb 2023 – Present
Postdoctoral Researcher, Working with Arno Solin and Juho Kannala
- Uncertainty estimation in Neural Radiance Fields to improve robustness in view synthesis tasks.

KTH Royal Institute of Technology, Sweden — Feb 2017 – Nov 2022
Ph.D. in Computer Science, Advised by Hedvig Kjellström and Cheng Zhang
Thesis: *Fine-Grained and Continual Visual Recognition for Assisting Visually Impaired People*.

Lund University, Sweden — Aug 2010 – Jun 2016
M.Sc. in Electrical Engineering

Work Experience

Disney Research, Pittsburgh, USA — Jul 2017 – Oct 2017
Intern, Hosted by Rafael Tena and Stephan Mandt
- Implemented neural networks for animation retargeting and transferring facial expressions.

Nordea, Copenhagen, Denmark — Sep 2016 – Jan 2017
Graduate Software Developer, Wholesale Banking and Capital Markets IT
- Monitoring of Docker containers and measuring usage of CPU and memory in the containers.

Selected Papers

- Rui Li, Martin Trapp, Marcus Klasson, Arno Solin. Flatness Improves Backbone Generalisation in Few-shot Classification. *Under review*, 2024.
- Marcus Klasson, Hedvig Kjellström, and Cheng Zhang. Learn the Time to Learn: Replay Scheduling in Continual Learning. In *Transactions on Machine Learning Research (TMLR)*, 2023.
- Marcus Klasson, Cheng Zhang, and Hedvig Kjellström. Using Variational Multi-view Learning for Classification of Grocery Items. In *Patterns 1.8:100143*, 2020.
- Marcus Klasson, Cheng Zhang, Hedvig Kjellström. A Hierarchical Grocery Store Image Dataset with Visual and Semantic Labels. In *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2019. Dataset link: https://github.com/marcusklasson/GroceryStoreDataset.

Academic Service

Reviewer for CVPR 2024, NeurIPS 2022-2023, ICML 2022-2023.

Teaching Experience

Computer Vision, Aalto University — Fall 2023
Teaching Assistant for Prof. Juho Kannala
- Responsibilities included grading assignments and the exam, and designing exam questions.

Introduction to Artificial Intelligence, Aalto University — Spring 2023
Head Teaching Assistant for Prof. Arno Solin
- Responsibilities included lecturing exercise sessions and designing coding exercises.
- 3rd place in the best CS courses of the academic year 2022-2023 in the category of big courses.

Computer Skills

- **Languages**: Python, Matlab, C++, Java, SQL, R.
- **Frameworks**: PyTorch, Nerfstudio, Tensorflow, Pyro.
- **Technologies**: Git, Linux/Unix, SLURM, Docker.