Paul Voigtlaender

M.Sc. in Computer Science

Publications

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	Personal Information
Born	19th October 1991 in Aachen
Nationality	German
	Education and Work Experience
Since 12/2016	•
	Ph.D. student at the Computer Vision Group, RWTH Aachen University Supervisor: Prof. Dr. Bastian Leibe
	Topics: - Video object segmentation using deep convolutional neural networks - End-to-end deep learning approaches for multi-object tracking
2014–2016	Master student in Computer Science, RWTH Aachen University
	Overall grade: Excellent (1.0) Master thesis: "Handwriting Recognition with Large Multidimensional Long Short-Term Memory Recurrent Neural Networks"
2013–2016	Student assistant at the Human Language Technology and Pattern Recognition
	Group, RWTH Aachen University
2012-2014	Topic: Handwriting recognition with recurrent neural networks Bachelor student in Computer Science, RWTH Aachen University
	Overall grade: Excellent (1.0)
2010-2012	Bachelor thesis: "Sequence Training of Recurrent Neural Networks for Handwriting Recognition"
2012	Bachelor student in Scientific Programming, University of Applied Sciences Aachen Combined with training as Mathematical Technical Software Developer at the Chair for Medical Information Technology at RWTH Aachen University
2010	High School Diploma
	Average grade: 1.7 (on a scale of 1–5) Intensive courses: Mathematics and Physics
	Prizes, Awards & Scholarships
$\underline{\hspace{1cm}}^{2017}$ Berthold Vöcking Master Award	
2016	By the Department of Computer Science of RWTH Aachen University
	IAPR Best Student Paper Award Handwriting Recognition with Large Multidimensional Long Short-Term Memory Recurrent Neural Networks
	Winner of the ICFHR2016 Competition on Handwritten Text Recognition on the READ Dataset
2013–2016	Together with Patrick Doetsch and Hermann Ney See http://transcriptorium.eu/~htrcontest/
	Stipend of the education fund of the RWTH Aachen University ("Deutschlandstipendium")
2012–2016	Inclusion on the Dean's List containing the top 5% of best students

1 Patrick Doetsch, Albert Zeyer, **Paul Voigtlaender**, Ilya Kulikov, Ralf Schlüter, and Hermann Ney. RETURNN: the RWTH extensible training framework for universal recurrent neural networks. In *IEEE International Conference on Acoustics, Speech, and Signal Processing*, 2017.

2 Aljoša Ošep, Wolfgang Mehner, Paul Voigtlaender, and Bastian Leibe. Track, then decide:

- Category-agnostic vision-based multi-object tracking. In *IEEE International Conference on Robotics and Automation*, 2018. To appear.
- 3 Aljoša Ošep, **Paul Voigtlaender**, Jonathon Luiten, Stefan Breuers, and Bastian Leibe. Large-scale object discovery and detector adaptation from unlabeled video. *arXiv* preprint *arXiv*:1712.08832, 2017.
- 4 Paul Voigtlaender, Patrick Doetsch, and Hermann Ney. Handwriting recognition with large multidimensional long short-term memory recurrent neural networks. In *International Conference on Frontiers in Handwriting Recognition*, 2016. IAPR Best Student Paper Award.
- 5 Paul Voigtlaender, Patrick Doetsch, Simon Wiesler, Ralf Schlüter, and Hermann Ney. Sequence-discriminative training of recurrent neural networks. In *IEEE International Conference on Acoustics, Speech, and Signal Processing*, 2015.
- 6 Paul Voigtlaender and Bastian Leibe. Online adaptation of convolutional neural networks for the 2017 DAVIS challenge on video object segmentation. In *The 2017 DAVIS Challenge on Video Object Segmentation CVPR Workshops*, 2017.
- 7 Paul Voigtlaender and Bastian Leibe. Online adaptation of convolutional neural networks for video object segmentation. In *British Machine Vision Conference*, 2017.
- 8 Albert Zeyer, Patrick Doetsch, **Paul Voigtlaender**, Ralf Schlüter, and Hermann Ney. A comprehensive study of deep bidirectional LSTM RNNs for acoustic modeling in speech recognition. In *IEEE International Conference on Acoustics, Speech, and Signal Processing*, 2017.