Tom Runia

Ph.D. Student, University of Amsterdam tomrunia@gmail.com github.com/tomrunia

Education

2016 –	Ph.D. in Computer Science, University of Amsterdam
	Computer Vision and Machine Learning in QUVA Deep Vision Lab Advisors: Cees G.M. Snoek and Arnold W.M. Smeulders
2013 – 2015	M.S. in Computer Science , Delft University of Technology Graduated with distinction
2008 – 2012	B.S. in Applied Physics , Delft University of Technology

Employment

2019	Research Intern, Amazon AWS
	Computer Vision at Amazon Al
2014 – 2015	Research Intern, TomTom Automotive
	Computer Vision in the Autonomous Driving team
2013 – 2015	Software Engineer, Dept Agency
	Back-end developer in the Operational Services team
2012 – 2013	Research Assistant, Delft University of Technology
	Scientific programmer in the Quantitative Imaging group
2009 – 2010	Software Engineer, Innovative Design Delft
	Back-end developer

Publications

2019	T.F.H. Runia , K. Gavrilyuk, C.G.M. Snoek and A.W.M. Smeulders. Go with the Flow: Perception-refined Physics Simulation (Under Review)
2018	R. Wever, T.F.H. Runia , Subitizing with Variational Autoencoders. In European Conference on Computer Vision Workshops (ECCV-W)
2018	T.F.H. Runia , C.G.M. Snoek and A.W.M. Smeulders. Repetition Estimation. <i>International Journal of Computer Vision</i> (I JCV).

2018	T.F.H. Runia , C.G.M. Snoek and A.W.M. Smeulders. Real-World Repetition Estimation by Div, Grad and Curl. In <i>The IEEE Conference on Computer Vision and Pattern Recognition</i> (CVPR). (Spotlight presentation)
2018	T.F.H. Runia , C.G.M. Snoek and A.W.M. Smeulders. Primitive Motion Types for Learning from Instructional Video. In <i>The Fine-Grained Instructional Video Understanding Workshop</i> (CVPR-W).
2015	T.F.H. Runia , R. Lukassen, L. Zhang and M Loog. The System Design of a High-Speed Object Detector. In <i>The Dutch Conference on Computer Vision</i> (NCCV).

Awards and Grants

2016	e-COST Travel Grant for the Summer School "Vision and Language"
	European Cooperation in Science and Technology
2015	Ngi-NGN Award for best M.S. Thesis in Computer Science (€1.000)
	The Royal Holland Society of Science and Humanities

Invited Talks

2018 **Dutch National Police**, Deep Learning Meet-Up

Workshops and Summer Schools

Summer school participa	tion
2016	Vision and Language (Msida, Malta) tion; Selected for poster presentation

Teaching

2016 – 2019	Thesis supervision for B.S. and M.S. students in Artificial Intelligence University of Amsterdam
2017 – 2018	Teaching Assistant: Deep Learning Graduate course at the University of Amsterdam
2016	Teaching Assistant: Information Visualization Undergraduate course at the University of Amsterdam

Professional Service

2019	Conference reviewing: CVPR, ICCV, NeurIPS
2018	Conference reviewing: CVPR, NeurIPS, ECCV, BMVC
2017	Conference reviewing: CVPR, NIPS, ICCV, PAMI
2016	Conference reviewing: CVPR, NIPS, ECCV, ACM-MM

Extracurricular Activities

2014	Entrepreneurial Study Trip to Silicon Valley (funded by TU Delft)
2012 – 2013	Board Member , Study Association for Applied Physics
2009 – 2012	President , Electronic Committee, Study Assoc. for Applied Physics
2010	Editor in Chief, Magazine for Applied Physics at the TU Delft

Technical Expertise

- Programming languages: C++, Python, Java, C#, R, Lua, Matlab, JavaScript
- Deep learning frameworks: TensorFlow, PyTorch, Caffe, Theano, Keras
- Scientific software: OpenCV, CUDA, OpenCL, LaTeX
- Miscellaneous: 3D rendering and animation (Blender, Autodesk 3ds Max)