Tom Runia

Ph.D. Candidate, QUVA Deep Vision Lab 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, GPA 8.5/10
2008 – 2012	B.S. in Applied Physics, Delft University of Technology

Employment

2014 – 2015	Research Intern, TomTom Automotive
	Computer Vision in the Autonomous Driving team (C++, OpenCL)
2013 – 2015	Software Engineer, Dept Agency
	Back-end developer in the Operational Services team (C#, .Net)
2012 – 2013	Research Assistant, Delft University of Technology
	Scientific programmer in the Quantitative Imaging group (Java)
2009 – 2010	Software Engineer, Innovative Design Delft
	Back-end developer (JavaScript, PHP)

Publications

2018	R. Wever, T.F.H. Runia , Subitizing with Variational Autoencoders. In <i>European Conference on Computer Vision Workshops</i> (ECCV-W)
2018	T.F.H. Runia , C.G.M. Snoek and A.W.M. Smeulders. Repetition Estimation. <u>Under Review</u> at the <i>International Journal of Computer Vision</i> (IJCV).
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> at CVPR 2018.			
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	5			
2018	Deep Learning Meet-up at the Dutch National Police (Amsterdam)			
Workshops and Summer Schools				
2017	International Computer Vision Summer School (Catania, Sicily) Summer school participation; Selected for poster presentation			
2016	iV&L Summer School on Vision and Language (Msida, Malta) Summer school participation; Selected for poster presentation			
Teaching				
2016 –	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				
2018	Conference reviewing: CVPR, NIPS, 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
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++, Java, C#, Python, JavaScript, R, Lua, Matlab
- Deep learning frameworks. TensorFlow, PyTorch, Caffe, Theano, Keras
- Scientific software. OpenCV, CUDA, OpenCL, LaTeX
- Miscellaneous. 3D rendering and animation (Blender, Autodesk 3ds Max)