

Tom Eelbode Imaging Researcher



17 March 1994, Leuven



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About me -

I am a biomedical engineer with a strong passion for medical image analysis, artificial intelligence and automated diagnosis. I'm especially interested in translating fundamental findings from the field of computer vision into a clinically relevant algorithm by integrating technical and clinical domain-specific knowledge. I'm a critical person who loves to work in an interdisciplinary environment and don't not fear a strong deadline.

Skills —

Computer vision

Python

Project management

Teamwork

Presenting

Dutch*6 English*5 French*4

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Education

2023-today	Master of Business Administration Flanders Bus Executive MBA focused on entrepreneurship	iness School, Belgium
2017-2023	Ph.D. in Electrical Engineering Automated data-driven online detection and characterization of endoscopic lesions using deep le	KU Leuven, Belgium
2015-2017	M.Sc. in Biomedical Engineering Thesis on automated segmentation of IVUS images	KU Leuven, Belgium
2012-2015	B.Sc. in Electrical Engineering Minor in Computer Science	KU Leuven, Belgium

Main publications

2023	Clinical validation of a CADe model for colorectal polyp detection trial
	using a second observer and real-time unblinding
2023	A voting-based ensemble model for improved automated classifica-
	tion of colorectal polyps including SSLs
2022	Expected value of AI in GI endoscopy: ESGE Position Statement
2022	Polyp Classification CNN with Late Fusion to predict histology based
	on multiple non-consecutive input video frames
2021	Convolutional LSTM
2021	Semi-Automated Annotation tool Outperforms Trained Medical Stu-
	dents and is Comparable to Clinical Expert Performance for Frame-
	Level Detection of Colorectal Polyps
2021	AI for polyp detection: a validation trial with real-time unblinding
2019	Optimizing the Dice Score and Jaccard Index for Medical Image Seg-
	mentation: Theory & Practice
2019	Mucosal capillary pattern recognition based on image analysis during
	endoscopy accurately detects histological remission in UC
2019	Incorporation of temporal information in a CNN improves perfor-
	mance level for automated polyp detection and delineation

Awards

2023	UEG Top Abstract Prize (top 5 out of >2.500 abstracts)
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2023	MICCAI Young Scientist Impact Award nominee
2021	Poster of distinction award at DDW
2019	Travel grant for ESGE Days
2019	Best abstract award on ESGE Days (first out of 760 submissions)
2019	Best oral presentation on Belgian Week of Gastroenterology, Antwerp

Experience

2016-2017	Regional Adviser Adviser for 11 local student orga	Board of European Students of Technology nizations spread over Europe.
2016	Medical Application Engineer Development of a bladder segme	Telemed ntation algorithm on ultrasound.
2015-2017	Tutor for academic courses Tutoring for calculus, algebra, pro	Sagio ogramming, etc.
2015	PCB design engineer Development of a printer circuit b	Easics poard with Altium Designer.
2014	CAD engineer 3D model design of clamps for ult	Mepy Benelux trasound transducers.

Additional certifications

2021	Entrepreneurship	Lcie Academy
2017	Deep Learning Specialization cour	Se Coursera
2016	Hearing and acoustical measurem	ents Politechnika Warszawska, Poland
2016	European economical system	Politecnnico di Milano, Italy
2013	Collaborative coding	Tampere University of Technology, Finland