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Spectral imaging and tomographic reconstruction methods for industrial applications

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Curriculum vitae

Mathé Thomas Zeegers was born in Alkmaar, the Netherlands, on the 3rd of May in 1992. He completed his secondary education (gymnasium) in 2010 at the Trinitas College locatie Han Fortmann in Heerhugowaard. In 2013, he obtained his bachelor degrees in Mathematics and Computer Science from Leiden University. After this, he obtained his master's degree (cum laude) in Computer Science in 2016 from Leiden University. The corresponding master thesis titled "Theoretical properties of 2048" was written under supervision of Dr. W.A. Kosters. After this, Mathé did an internship in the Life Science group at Centrum Wiskunde & Informatica (CWI), the Dutch national research institute for computer science and mathematics in Amsterdam. The result is the thesis titled "Cellular Potts modelling of branching morphogenesis by chemical inhibition and mechanochemical feedback", written under supervision of Dr. E. G. Rens and Prof. dr. R. M. H. Merks, after which Mathé obtained the master's degree for Mathematics from Leiden University in 2017. After this, he started his PhD research at the Computational Imaging group at CWI under the supervision of Prof. dr. K. J. Batenburg. During this time, Mathé conducted research in the field of spectral X-ray tomography, with links to discrete tomography, hyperspectral imaging and machine learning. During the PhD research, Mathé attend and gave talks at various venues, such as the International Workshop on Combinatorial Image Analysis (IW CIA) in Porto in 2018 and the Applied Inverse Problems (AIP) in Grenoble in 2019. He obtained a SIAM Student Travel Award in early 2020. In addition, from 2018 to early 2021, Mathé was a member of the PhD activity committee that organizes social events for PhD students, postdocs, trainees and other personnel at CWI.

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