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List of Publications

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Articles in refereed scientific journals

1. Koponen E, Leskinen J, Tarvainen T, Pulkkinen A, Background-oriented schlieren sensitivity in terms of measurement setup parameters, *The Journal of the Acoustical Society of America*, Submitted.
2. Xu W, Leskinen J, Sahlström T, Happonen E, Tarvainen T, Lehto V-P, Assembly of fluorophore J-aggregates with nanospacer onto mesoporous nanoparticles for enhanced photoacoustic imaging, *Photoacoustics*, Submitted.
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4. Sahlström T, Tarvainen T, Utilizing variational autoencoders in the Bayesian inverse problem of photoacoustic tomography, *SIAM Journal on Imaging Sciences*, 16(1):89-110, 2023.
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6. Mozumder M, Hauptmann A, Nissilä I, Arridge SR, Tarvainen T, A model-based iterative learning approach for diffuse optical tomography, *IEEE Transactions on Medical Imaging*, 41(5):1289-1299, 2022.
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Book chapters

1. Tarvainen T, Quantitative photoacoustic tomography in Bayesian framework, In R. Ramlau and O. Scherzer Eds., *Radon Transform -The First 100 Years and Beyond*, De Gruyter, ISBN 978-3-11-055941-5 (print) 978-3-11-056085-5 (PDF) 978-3-11-055951-4 (EPUB), pages 239-271, 2019.
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2. MATLAB-toolbox for simulating light transport using Monte Carlo method, UEF Dnro 323.02.07.03.01.18, 26.2.2018.
3. Photoacoustic tomography system based on LED illumination, UEF Dnro 407/02.07.03.01/2018, 19.3.2018.

Software

1. ValoMC - A Monte Carlo software for simulating light transport <https://inverselight.github.io/ValoMC/>