

## 10 Selected Publications

### Pasi Raumonon

Mönkkönen P, Ali-Löytty S, Raumonon P. (2024)

*Monte Carlo Foliage Generation on 3D Tree Models.*

To appear in the proceedings of 22nd ECMI Conference on Industrial and Applied Mathematics, 26-30 June 2023, Wrocław, Poland, 8 pages.

Nunes M, Vaz M, Camargo J, Laurance W, de Andrade A, Vicentini A, Laurance S, Raumonon P, Jackson T, Zuquim G, Wu J, Penuelas J, Chave J, Maeda E. (2023)

*Edge effects on tree architecture exacerbate biomass loss of fragmented Amazonian forests.*

Nature Communications, 14, 8129 (2023). <https://doi.org/10.1038/s41467-023-44004-5>

Su C, Kokosza A, Xie X, Pěňčík A, Zhang Y, Raumonon P, Shi X, Muranen S, Topcu M K, Immanen J, Hagqvist R, Safronov O, Alonso-Serra J, Eswaran G, Venegas M P, Ljung K, Ward S, Mähönen A, Himanen K, Salojärvi J, Fernie A R, Novák O, Leyser O, Paľubicki W, Helariutta Y, Nieminen K. (2023)

*Tree architecture: A strigolactone-deficient mutant reveals a connection between branching order and auxin gradient along the tree stem*

Proceedings of the National Academy of Sciences of the United States of America, 2023 Vol. 120 No. 48 e2308587120, <https://doi.org/10.1073/pnas.2308587120>

Han T, Raumonon P, Sánchez-Azofeifa G A. (2023)

*A non-destructive approach to estimate buttress volume using 3D point cloud data.*

Ecological Informatics, Volume 77, November 2023, 102218. <https://doi.org/10.1016/j.ecoinf.2023.102218>

Raumonon P, Brede B, Lau L, Bartholomeus H. (2021)

*A Shortest Path Based Tree Isolation Method For Uav Lidar Data.*

2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS, 2021, pp. 724-727, <https://doi.org/10.1109/IGARSS47720.2021.9554346>

Raumonon P, Tarvainen T. (2018)

*Segmentation of vessel structures from photoacoustic images with reliability assessment.*

Biomedical Optics Express, Vol. 9, Issue 7, pp. 2887-2904, <https://doi.org/10.1364/BOE.9.002887>

Åkerblom M, Raumonon P, Mäkipää R, Kaasalainen M. (2017)

*Automatic tree species recognition with quantitative structure models.*

Remote Sensing of Environment, Vol. 191, 1-12, <https://doi.org/10.1016/j.rse.2016.12.002>

Calders K, Newnham G, Burt A, Murphy S, Raumonon P, Herold M, Culvenor D, Avitabile V, Disney M, Armston J, Kaasalainen M. (2015)

*Non-destructive estimates of above-ground biomass using terrestrial laser scanning.*

Methods in Ecology and Evolution, Vol. 6, No. 2, pp. 198-208, <https://doi.org/10.1111/2041-210X.12301>

Raumonon P, Kaasalainen M, Åkerblom M, Kaasalainen S, Kaartinen H, Vastaranta M, Holopainen M, Disney M, Lewis P. (2013)

*Fast Automatic Precision Tree Models from Terrestrial Laser Scanner Data.*

Remote Sensing, Vol. 5, No. 2, pp. 491-520, <https://doi.org/10.3390/rs5020491>

Raumonon P, Suuriniemi S, Kettunen L. (2011)

*Dimensional Reduction of Electromagnetic Boundary Value Problems.*

Boundary Value Problems 2011, 2011:9. <https://doi.org/10.1186/1687-2770-2011-9>