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List of publications

PUBLICATIONS

Schürholz, D. et al. | *Seeing the Forest for the Trees: Mapping Cover and Counting Trees from Aerial Images of a Mangrove Forest Using Artificial Intelligence*

MDPI

Published in THE REMOTE SENSING JOURNAL (IMPACT FACTOR 5.349)

Jun. 2023

<https://doi.org/10.3390/rs15133334>

Schürholz, D. & Chennu, A. | *Ditizing the coral reef: Machine learning of underwater spectral images enables dense taxonomic mapping of benthic habitats*

Wiley Online Library

Published in THE METHODS IN ECOLOGY AND EVOLUTION JOURNAL (IMPACT FACTOR 8.33)

Nov. 2022

<https://doi.org/10.1111/2041-210X.14029>

Schürholz, D. et al. | *Context-Aware Air Quality Prediction System – The Melbourne Use Case*

Elsevier

Published in THE JOURNAL OF CLEANER PRODUCTION (IMPACT FACTOR 9.297)

Jun. 2020

<https://doi.org/10.1016/j.jclepro.2020.121941>

Schürholz, D. and Nurgazy, M. et al. | *MyAQI: Context-aware Outdoor Air Pollution Monitoring System*

Bilbao, Spain

Published in THE PROCEEDINGS OF THE 9TH INTERNATIONAL CONFERENCE ON THE INTERNET OF THINGS (IoT 2019)

Oct. 2019

<https://doi.org/10.1145/3365871.3365884>

Schürholz, D. et al. | *Context- and Situation Prediction for the MyAQI Urban Air Quality Monitoring System*

Saint Petersburg, Russia

Published in THE PROCEEDINGS OF THE 12TH CONFERENCE ON INTERNET OF THINGS AND SMART SPACES RUSMART 2019

Aug. 2019

https://doi.org/10.1007/978-3-030-30859-9_7

PHD THESIS

Title: Proximal Sensing For Scalable Mapping Of Shallow Coastal Ecosystems

University of Bremen, Germany

PHD. IN MARINE ECOLOGY

2019 - 2024

Publication: <https://doi.org/10.26092/elib/3374>

MASTER THESIS

Title: Context- and Situation Prediction for Outdoor Air Quality Monitoring

PERCCOM

MSC. IN COMPUTER SCIENCE

2017 - 2019

Publication: <https://urn.fi/URN:NBN:fi-fe2019090226411>

DATA & SOURCE CODE PUBLICATIONS

Schürholz, D. et al. | *Detailed tree inventory and area coverage of remote mangrove forests (species: *Pelliciera rhizophorae* and *Rhizophora mangle*) in the Utría National Park in the Colombian Pacific Coast*

PANGAEA

Published in PANGAEA (DATA PUBLISHER FOR EARTH & ENVIRONMENTAL SCIENCE)

Jun. 2023

<https://doi.org/10.1594/PANGAEA.962229>

Schürholz, D. & Chennu, A. | *Dense and taxonomically detailed habitat maps of coral reef benthos machine-generated from underwater hyperspectral transects in Curaçao*

PANGAEA

Published in PANGAEA (DATA PUBLISHER FOR EARTH & ENVIRONMENTAL SCIENCE)

Nov. 2022

<https://doi.org/10.1594/PANGAEA.946315>

Schürholz, D. & Chennu, A. | *Digitizing the coral reef: a complete workflow for dense taxonomic mapping of benthic habitats with machine learning of underwater hyperspectral images*

Zenodo

Published in ZENODO

Oct. 2022

<https://doi.org/10.5281/zenodo.7185107>