様式３

学位論文の各章別既発表論文とその対比表

学位論文題目：Estimating intervention-induced air pollution changes and tracking carbon neutrality progress employing the Digital Earth Systems Approach: Applications and Policy Implications （デジタル アース システムズ アプローチによる「介入事象がもたらした大気汚染の変化推定」と「カーボン ニュートラルの進捗状況の追跡」: その応用、政策への示唆）.

　　　　　　　　　　　　　　　　学位論文審査申請者　　　　　　Phan Anh

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| 学位論文の各章 | 対応する発表研究論文の題目 | 発　表　誌 |
| 第１章  Introduction  第2章  Background  第3章  Impact of interventions on air quality  第4章  Terrestrial carbon fluxes estimation  第5章  Carbon neutrality roadmaps platform  第6章  Conclusions and future prospects | なし  なし  3.1. Quantifying the impacts of the Covid-19 pandemic lockdown and the armed conflict with Russia on Sentinel 5P column NO2 changes in Ukraine. (***Peer-reviewed paper***)  3.2. Impacts of the Covid-19 pandemic lockdown and the conflict with Russia on Sentinel 5P NO2 changes in Ukraine. (***poster***)  3.3. Peculiar response of O3 and CH4 to NOx reduction in Japan during the Covid-19 pandemic. (***Peer-reviewed paper***)  3.4. Impacts of Covid pandemic on Sustainable Development in Japan. ***(Story map)***  4.1. Forest-Related SDG Issues Monitoring for Data-Scarce Regions Employing Machine Learning and Remote Sensing - A Case Study for Ena City, Japan. (***Conference proceeding***)  4.2. 地域共生圏創成へ向けた森林資源量把握の手法の検討. (***Poster***)  4.3. FluxFormer: Upscaled Global Carbon Fluxes from Eddy Covariance Data with Multivariate Timeseries Transformer. (***Preprint***)  5.1. Digital Earth: A platform for the SDGs and green transformation at the global and local level, employing essential SDGs variables. (***Peer-reviewed paper***)  5.2. Building a Digital Earth Platform to support the creation of Carbon Neutral Roadmaps. (***Oral presentation***)  5.3. Use cases of digital earth in various space-times for SDGs and sustainable earth. (***Poster***)  5.4. The Drawdown Japan. ***(Story map)***  なし | なし  なし  Big Earth Data,　Published, 2023  13th International Symposium on Digital Earth, 2023  International Journal of Digital Earth, Accepted, 2023  17th GIS Community Forum Online, 2021  In the Proceedings of 2022 IEEE International Geoscience and Remote Sensing Symposium, Published, 2022  19th GIS Community Forum Online, 2022  EarthArXiv, Published, 2023  Big Earth Data, Published, 2021  International Conference on Materials and Systems for Sustainability, 2023  12th International  Symposium on Digital Earth, 2021  19th GIS Community Forum Online, 2022 |