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）

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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. Unusual response of O3 and CH4 to NOx emissions 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, 2023, DOI:10.1080/20964471.2023.2265105  13th International Symposium on Digital Earth, 2023  International Journal of Digital Earth, 2023, DOI:10.1080/17538947.2023.2297844  17th GIS Community Forum Online, 2021  IGARSS 2022 IEEE International Geoscience and Remote Sensing Symposium, Kuala Lumpur, Malaysia, 2022, pp. 4343-4346, DOI:10.1109/IGARSS46834.2022.9883037  19th GIS Community Forum Online, 2022  EarthArXiv, 2023, DOI:10.31223/X5BQ2H  Big Earth Data 5(4), 2021, pp. 476-496, DOI:10.1080/20964471.2021.1948677  International Conference on Materials and Systems for Sustainability, 2023  12th International  Symposium on Digital Earth, 2021  19th GIS Community Forum Online, 2022 |