

Newton Institutional Link 2020-21 Project

Robust Burnt Scar Profiling using Deep Learning and Ensemble Modeling with Remote Sensing Data

Background:

- Forest fire has contributed to high level of smoke and PM 2.5 especially in the northern part of Thailand
- Recently, this became an annual problem to health, travel, and tourism/economy
- Limited attempts to create a long-term or unified solution by authority and governmental agency
- Many existing studies provide information to public, but knowledge should also be sharable



INSTITUTIONAL LINKS  **Newton Fund**

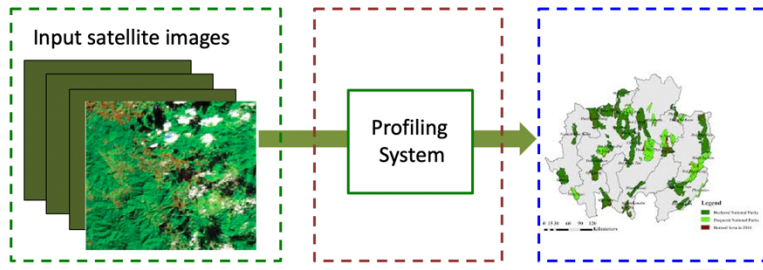


BRITISH COUNCIL



Methodology:

- Cloud based data deposit and storage
- Data specification and collection (with Thai partners)
- Automated detection of burnt scars (deep learning + ensemble technology)
- Profiling burnt scars in spatial domain (with knowledge repository)



On cloud architecture and services to big data analytic

Outputs:

- 5 journal articles (SJR Q1)
- 1 journal special issue (ISI)
- 1 conference workshop (Scopus)
- 2 MOUs within network
- 3 technical workshops
- prototype & knowledge repo.



Outreach & Impact: Public demonstration and training.



Contact: for more information.



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