Student project

Key Topics:
- fire severity [1]
- remote sensing [2]

This study is focused on utilizing the multi-resolution and high frequency data from Advanced Himawari Imager to develop new algorithms for fire line mapping and fire intensity calculation. Two algorithms are proposed for fire line mapping and fire radiant energy: calculations are improved by using accurate fire area calculation and correcting for radiant heat from smouldering areas.

Research team

Student researcher

Full description

This study is focused on utilizing the multi-resolution and high frequency data from Advanced Himawari Imager to develop new algorithms for fire line mapping and fire intensity calculation. Two algorithms are proposed for fire line mapping and fire radiant energy: calculations are improved by using accurate fire area calculation and correcting for radiant heat from smouldering areas.

The algorithms developed are expected to provide near real time mapping of fire at 500m resolution and accurate calculation of fire intensity. This will be highly useful to effectively execute bushfire control measures as well as input data for bushfire prediction models.

Download:
- [chathura_wickramasinghe_project_outline.pdf](https://www.bnhcrc.com.au/node/2737/generate-pdf)

Publications

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Posters

Fire surveillance and hazard mapping

BUSHFIRE PREDICTIVE SERVICES [36]

