

LIST OF FIGURES

2.1	Geothermal Project	9
2.2	Geothermal Field	10
2.3	Among Geothermal Effects	11
2.4	Support Vector Regression Concept	26
3.1	Research Flow of Classification of Geothermal Disaster	32
3.2	Research Flow of Prediction of Geothermal Disaster	33
3.3	Access Data from Himawari 8 Satellite via ftp://ftp.ptree.jaxa.jp/	34
3.4	Map of Geothermal Field Distribution in Indonesia	35
3.5	Aerosol Optical Thickness (AOT) Data from JAXA Himawari Monitor	36
3.6	Sea Surface Temperature (SST) Data from JAXA Himawari Monitor	37
3.7	All Band Himawari Data from JAXA Himawari Monitor	38
3.8	To Visualization AOT Data From Himawari 8 Satellite Data	41
3.9	Image Visualization Results of AOT	41
3.10	Image Visualization Results of AOT with White Background	42
3.11	Visualization SST Data From Himawari-8 Satellite Data	47
3.12	Image Visualization Results of SST	48
3.13	Image Visualization Results of SST with White Background	48
3.14	Normalized Difference Vegetation Index	52
3.15	To Visualization SST Data From Himawari 8 Satellite Data	54
3.16	To Visualization SST Data From Himawari 8 Satellite Data	54
3.17	Image Visualization Results of Band 03.	55
3.18	Image Visualization Results of Band 03.	55
3.19	Image Visualization Results of Band 03 with White Background.	56
3.20	Image Visualization Results of Band 03 with White Background.	56
3.21	Scheme of Simulation of Classification.	57
3.22	Scheme of Simulation of Prediction.	58
4.1	Figure of AOT Data in Sarulla Geothermal From Himawari-8 Satellite	59
4.2	Figure of SST Data in Sarulla Geothermal From Himawari-8 Satellite	60
4.3	Figure of Albedo 03 Data in Sarulla Geothermal From Himawari-8 Satellite.	67
4.4	Figure of Albedo 04 Data in Sarulla Geothermal From Himawari-8 Satellite.	68
4.5	Result of Data Image from AOT Aceh (Non Geothermal Area)	116
4.6	AOT Data in Bangka Belitung at April 14th 2023	117
4.7	AOT in Bangka Belitung at April 14th 2023	117
4.8	SST Data at Sarulla Geothermal in Year 2020	118
4.9	SST Data at Sarulla Geothermal in Year 2021	118
4.10	SST Data at Sarulla Geothermal in Year 2023	119

4.11 . Band 03 Data in Sarulla Geothermal in Year 2015.....	119
4.12 . Band 03 Data at Bangka Belitung in Year 2015	120
4.13 Band 03 Data at Bangka Belitung in Year 2022	120
4.14 Band 04 Data at Bangka Belitung in Year 2022	121
4.15 Confusion Matrix SVM	121
4.16 Confusion Matrix Decision Tree.....	122
4.17 Confusion Matrix Random Forest.....	122
4.18 Confusion Matrix K-Nearest Neighbors	123