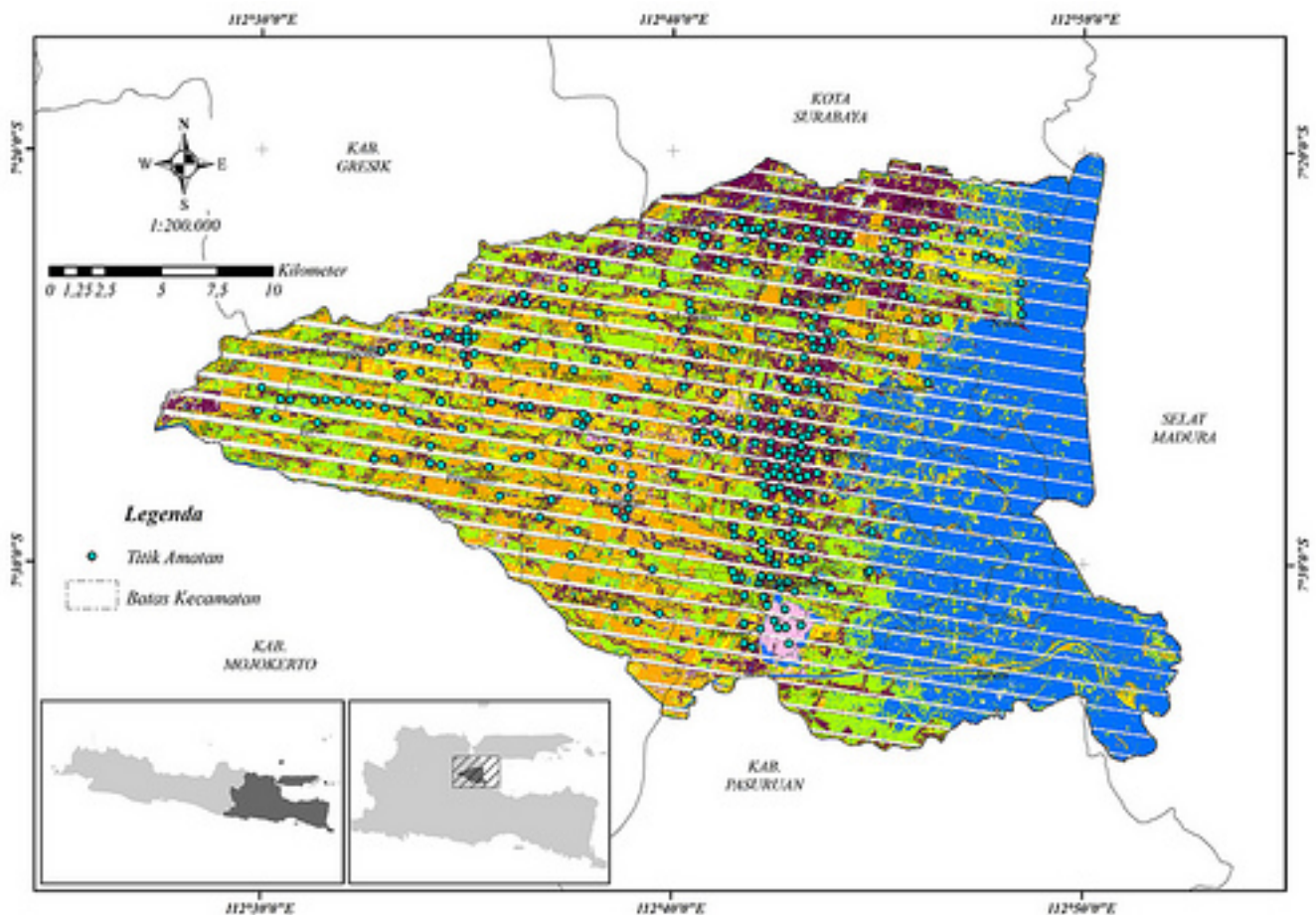


## Bachelor : Surface Temperature Distribution for Consideration of Green Space Development in Sidoarjo Regency

by : REZA PRADIPTA

Under supervision : Lilik B.Prasetyo & Badriyah Rushayati

Sidoarjo Regency had an advantage economic development due to its location bordered to Surabaya City. The increased space requirement for trade & industrial area forced to green space conversion., resulted in temperature increase. Research aims is to evaluate and build the relationship models between the green space distance with surface temperature and provide an alternative green space development in Sidoarjo Regency.



To achieve this goal remote sensing data of Landsat 7 ETM were used. Satellite image processing is done to determine the land cover classification and surface temperature estimation in Sidoarjo Regency. Sample points for regression analysis were determined manually, on the built-up areas. Distance the points to each land cover types (grass and bush, rice field, farm, close vegetation and sparse vegetation ) were made based on Euclidian Distance.

The regression result was presented in the formula below.



# | Bachelor : Surface Temperature Distribution for Consideration of Green Space Develop

Copyright Lilik Budi Prasetyo lbprastdp@ipb.ac.id

<http://lbprastdp.staff.ipb.ac.id/2012/06/12/bachelor-surface-temperature-distribution-for-consideration-of-green-space-development-on-sidoarjo-regency/>

---

Corresponding Author : Reza (wajah\_pribumi04@yahoo.com)

Keywords: Remote sensing, green space, surface temperature.