



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ  
VISVESVARAYA TECHNOLOGICAL UNIVERSITY - BELAGAVI

Dissertation Report

On

**“Secure Localization using PSO and GD Methods for  
UWSNs”**

submitted in partial fulfillment for the award of the Ph.D. degree

by

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