

**PERFORMANCE ANALYSIS OF  
UNDECIMATED WAVELET BASED ADAPTIVE  
DESPECKLING FILTERS FOR ULTRASOUND  
IMAGES**

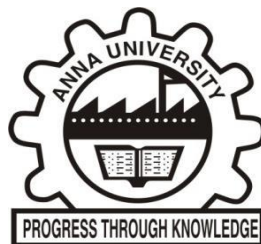
**A THESIS**

*Submitted by*

**NIRMALA DEVI P**

*in partial fulfillment of the requirements for the degree of*

**DOCTOR OF PHILOSOPHY**



**FACULTY OF INFORMATION AND  
COMMUNICATION ENGINEERING**

**ANNA UNIVERSITY**

**CHENNAI 600 025**

**DECEMBER 2015**