

**Improving E-LEACH Protocol by Combining Energy  
Efficient Routing With Spatial Distance**

A THESIS SUBMITTED TO  
THE SCHOOL OF COMPUTING

**BY**

**YADI SUPRIYADI**

**NIM: 2301140040**



IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE  
OF  
MASTER OF INFORMATICS  
IN  
THE SCHOOL OF COMPUTING

**TELKOM UNIVERSITY**

**2017**