



ISSN No. : 2321-9653

IJRASET

**International Journal for Research in Applied
Science & Engineering Technology**

IJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com



ISRA Journal Impact
Factor: 7.429



45.98
INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



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SJIF 7.429

Certificate

*It is here by certified that the paper ID : IJRASET62340, entitled
Optimal Deployment of Wireless Sensor Nodes using Particle Swarm Optimization
(PSO), Ant Colony Optimization (ACO)*

*by
Kiruthikeswaran Rajaram*

*after review is found suitable and has been published in
Volume 12, Issue V, May 2024
in*

*International Journal for Research in Applied Science &
Engineering Technology*

(International Peer Reviewed and Refereed Journal)

Good luck for your future endeavors

By [Signature]

Editor in Chief, IJRASET