

**A NOVEL MULTIHOP BASED PROTOCOL FOR
DEVICE-TO-DEVICE COMMUNICATION FOR
COGNITIVE RADIO WITH MACHINE
LEARNING ALGORITHMS**

मशीन लर्निंग एल्गोरिदम के साथ संज्ञानात्मक रेडियो के लिए डिवाइस-टू-
डिवाइस संचार के लिए एक नवीन मल्टीहॉप आधारित प्रोटोकॉल

A Thesis

Submitted for the Award of Ph.D. degree

by

Md. TABREJ KHAN

Under the Supervision of

Dr. ASHISH ADHOLIYA

Assistant Professor
PAHER University, Udaipur



**FACULTY OF COMPUTER SCIENCE
PACIFIC ACADEMY OF HIGHER EDUCATION AND
RESEARCH UNIVERSITY UDAIPUR**

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