PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH UNIVERSITY SAAD DAHLEB BLIDA 1 INSTITUTE OF AERONAUTICS AND SPACE STUDIES



DOCTORAL THESIS IN AERONAUTICS

Option: Avionics

Presented by

M. BENGHANEM Yahia

Titled

DESIGN AND DEVELOPMENT OF SOLUTIONS TO ENHANCE THE PERFORMANCE OF MULTI-ANTENNA DEVICES FOR ADVANCED WIRELESS COMMUNICATIONS

Defended before the jury

President: M. LAGHA Mohand Professeur University of Blida 1

Director: M. MANSOUL Ali Directeur de recherche CDTA- Baba Hassen, Alger

Co-Director: Mme. MOUFFOK Lila MCA University of Blida 1

Examiner: M. HEBIB Sami Professeur University of Blida 1

Examiner: M. CHALLAL Mouloud Professeur University of Boumerdes

Examiner: M. HAMOUDA Zahir MCA ESTA- Dar El Beida, Alger

The thesis defense will take place on Tuesday, October 15th, 2024, at 16:00 in the conference room of the Institute of Aeronautics and Space Studies (Pavilion 20).