

THESIS

**CONSTRAINED MATRIX FACTORIZATION IN REAL AND
COMPLEX DOMAIN FOR FACE AND FACIAL EXPRESSION
RECOGNITION**

***FAKTORISASI MATRIKS DENGAN BATASAN PADA DOMAIN
BILANGAN REAL DAN KOMPLEKS UNTUK PENGENALAN WAJAH DAN
EKSPRESI WAJAH***



DIYAH UTAMI KUSUMANING PUTRI

17/418632/PPA/05416

**COMPUTER SCIENCE MAGISTER STUDY PROGRAM
DEPARTMENT OF COMPUTER SCIENCE AND ELECTRONICS
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA
YOGYAKARTA**

2019