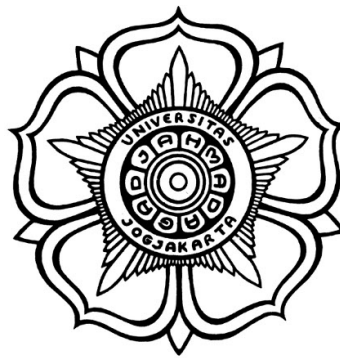


MULTI-REPRESENTATION AND ASYMMETRIC WINDOWING RECURRENCE PLOT INPUT FORMULATIONS TO ENHANCE EEG-BASED EMOTION RECOGNITION

DISSERTATION



*THE SUSTAINABLE DEVELOPMENT GOALS
Good Health and Well-Being*

Dwi Wahyu Prabowo
19/450411/STK/00755

GRADUATE PROGRAM
DOCTORAL PROGRAM IN ELECTRICAL ENGINEERING
FACULTY OF ENGINEERING
UNIVERSITAS GADJAH MADA
YOGYAKARTA
2024

DISERTASI

**FORMULASI INPUT MULTI-REPRESENTASI DAN ASYMMETRIC WINDOWING
RECURRENCE PLOT UNTUK MENINGKATKAN PENGENALAN EMOSI
BERBASIS EEG**

Dipersiapkan dan disusun oleh

Dwi Wahyu Prabowo
19/450411/STK/00755

Telah dipertahankan di depan dewan penguji
Pada tanggal : **15 November 2024**

Promotor



Prof. Ir. Hanung Adi Nugroho, S.T., M.Eng., Ph.D., IPM., SMIEEE.

Ko-Promotor



Ir. Noor Akhmad Setiawan, S.T., M.T., Ph.D., IPM.

Ko-Promotor

Prof. Johan Debayle

Disertasi ini telah diterima sebagai salah satu
persyaratan untuk memperoleh gelar Doktor

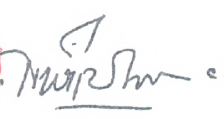
Tanggal: **16 Desember 2024**

Ketua Program Doktor Program Studi Teknik Elektro



Prof. Dr. Eng. Ir. F. Danang Wijaya, S.T., M.T., IPM.
NIP. 197402261998031003

Mengetahui,
Ketua Departemen
Teknik Elektro dan Teknologi Informasi



Prof. Ir. Hanung Adi Nugroho, S.T., M.Eng., Ph.D., IPM., SMIEEE.
NIP. 197802242002121001



APPROVAL PAGE

Supervisor and Co-supervisor have approved this dissertation manuscript:

Name : Dwi Wahyu Prabowo
Student Number : 19/450411/STK/00755
Title : Multi-Representation and Asymmetric Windowing Recurrence Plot Input Formulations to Enhance EEG-based Emotion Recognition

which has been revised according to the advice of the Examiner Team in the Final Examination.

Supervisor Team

Signature and Date

Prof. Ir. Hanung Adi Nugroho, S.T., M.Eng., Ph.D., IPM.,
SMIEEE.
Promotor


(December 05, 2024)

Ir. Noor Akhmad Setiawan, S.T., M.T., Ph.D., IPM.
Ko-Promotor


(December 10, 2024)

Prof. Johan Debayle
Ko-Promotor


(December 10, 2024)



The Examiner Team has approved this dissertation manuscript:

Name : Dwi Wahyu Prabowo
Student Number : 19/450411/STK/00755
Title : Multi-Representation and Asymmetric Windowing Recurrence Plot Input Formulations to Enhance EEG-based Emotion Recognition

which has been revised according to the advice of the Examiner Team in the Final Examination.

Examiner Team

Signature and Date

Ir. Lesnanto Multa Putranto, S.T., M.Eng., Ph.D., IPM.,
SMIEEEE.

Head of Examiner Team

(December 03, 2024)

Prof. Ir. Hanung Adi Nugroho, S.T., M.Eng., Ph.D., IPM.,
SMIEEEE.

Examiner

(December 05, 2024)

Ir. Noor Akhmad Setiawan, S.T., M.T., Ph.D., IPM.

Examiner

(December 10, 2024)

Prof. Johan Debayle

Examiner

(December 10, 2024)

Dr.Eng. Ir. Igi Ardiyanto, S.T., M.Eng., IPM., SMIEEEE.

Examiner

(December 03, 2024)

Syukron Abu Ishaq Alfarozi, S.T., Ph.D.

Examiner

(December 04, 2024)

Dr. Ahmad Nasikun, S.T., M.Sc.

Examiner

(December 03, 2024)

Ts. Dr. Mohd Ibrahim Bin Shapiai

Examiner

(December 01, 2024)

Prof. Dr. Eng. Ir. F. Danang Wijaya, S.T., M.T., IPM.

Examiner

(December 05, 2024)

