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CERTIFICATE

OF PARTICIPATION

This certifies that

Afnan Birahim

has participated and presented a paper entitled:

Optimal Control Problem and Its Application in COVID-19 Transmission Dynamics

> at the 3rd International Conference on Advanced Engineering, Technology, and Applications, held at the University of **Catania**, **Italy** on May 24-25, 2024.

> > Dr. Alessandro Ortis

General Chair