

$$\zeta(s) = 1 + 1/2^s + 1/3^s + 1/4^s + \dots = \sum_{n=1}^{\infty} \frac{1}{n^s} \quad \square \quad AB = \sqrt{AB_x^2 + AB_y^2} \quad \pi = \int \frac{dx}{1+x^2} \quad \langle \rangle \quad x = \sqrt{a} \quad \Pi \quad \sum AB = \sqrt{AB_x^2 + AB_y^2} \quad \pi = \int \frac{dx}{1+x^2} \quad \langle \rangle \quad x = \sqrt{a} \quad \Pi \quad \sum AB = \sqrt{AB_x^2 + AB_y^2} \quad \pi = \int \frac{dx}{1+x^2} \quad \langle \rangle \quad x = \sqrt{a} \quad \Pi$$

CERTIFICATE OF PARTICIPATION

This is to certify that

Ouali Mohammed Assam

has participated as "Oral Presenter" and presented the following paper entitled

A New AR-ANN-framework for time series Modeling and Identification enhanced using IWO and CMA-ES metaheuristics approaches: A pilot Study

during the

***9th (Online) International Conference
on Applied Analysis and Mathematical Modeling***

held on June 11-13, 2021
Biruni University
Istanbul-Turkey



Prof. Dr. Mustafa Bayram
Chairman

$$\sum AB = \sqrt{AB_x^2 + AB_y^2} \quad \pi = \int \frac{dx}{1+x^2} \quad \langle \rangle \quad x = \sqrt{a} \quad \Pi \quad \sum AB = \sqrt{AB_x^2 + AB_y^2} \quad \pi = \int \frac{dx}{1+x^2} \quad \langle \rangle \quad x = \sqrt{a} \quad \Pi \quad \sum AB = \sqrt{AB_x^2 + AB_y^2} \quad \pi = \int \frac{dx}{1+x^2} \quad \langle \rangle \quad x = \sqrt{a} \quad \Pi \quad \sum AB = \sqrt{AB_x^2 + AB_y^2} \quad \pi = \int \frac{dx}{1+x^2} \quad \langle \rangle \quad x = \sqrt{a} \quad \Pi$$