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Ministry of Higher Education and Scientific Research
University of Bouira, Algeria
Faculty of Sciences and Applied Sciences

Faculty of Sciences and Applied Sciences
Department of Electrical Engineering

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This is to certify that:

## Karim Benaouicha

Electrical Engineering (IC3E'2024), held on November 09-10, 2024 - University of Bouira, Algeria. has presented the paper referenced below in the 4th International Conference on Electronics and

Paper title: Optimization of PIADH and PID Controllers for Fractional Systems Behaving as Slow First-Order and Fast Second-Order Systems

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