



PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH
CHADLI BENDJEDID EL-TARF UNIVERSITY
SCIENCES AND TECHNOLOGY FACULTY
COMPUTER SCIENCE DEPARTMENT



CERTIFICATE OF PARTICIPATION

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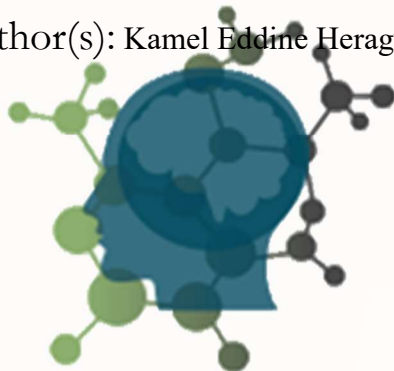
Kamel Eddine Heraguemi

For presenting the paper entitled:

Bio-inspired optimization algorithms for improving a variable step size Maximum Power Point Tracking method for photovoltaic systems

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