



Certificate of Presentation of Paper

This is to certify that the paper entitled

**An Effective Solution to Unit Commitment Problem in Presence of Sustainable Energy
Using Hybrid Harris Hawk's Optimizer**

by Dinesh Dhawale; Vikram Kamboj

has been presented at the

The International Conference on Decision Aid Sciences and Applications (DASA'20)

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A handwritten signature in black ink, appearing to be "Dr. M. R. Qader".

Dr. M. R. Qader
Dean, Deanship of Graduate Studies and Scientific Research