



Certificate of Presentation of Paper

This is to certify that the paper entitled

Intelligent Computation to build a Novel Recommender of Products through (PageRank-Clustering and DgSpan- FBR)

by Samaher Al-Janabi

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