



THE 4TH DOCTORAL DAYS OF SPEECH COMMUNICATION AND SIGNAL PROCESSING LABORATORY





SEPTEMBER 23rd, 2024

CERTIFICATE

OF PARTICIPATION

This certificate is awarded to

Hassina Hadjadj

for participating in the 4th Doctoral Days of Speech Communication and Signal Processing aboratory, held at USTHB on September 23rd, 2024 and presenting a paper titled:

biproving Arabic Authorship Attribution on Imbalanced Dataset Using a Hybrid Approach

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