



IJARCSE

CERTIFICATE

OF PUBLICATION

THIS CERTIFICATE IS AWARDED TO:

Lucas Pereira

for an outstanding research contribution titled as **“Adaptive Ant Colony Optimization in Dynamic Path Planning”**

This serves as a testament to their expertise and valuable contribution in maintaining the quality and standards of the publication.

This certificate was awarded on April 3, 2026

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A handwritten signature in black ink, appearing to read 'Carlos', is written over a horizontal line.

Editor-in-Chief

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