

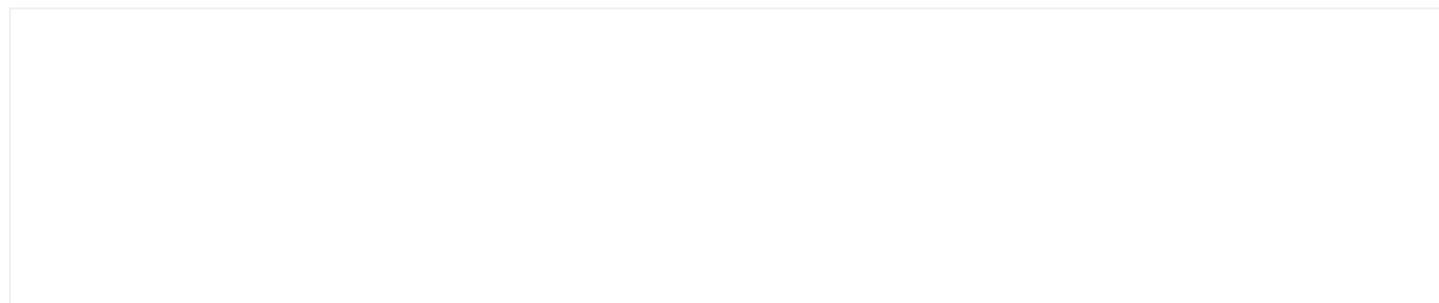
Certificate

The Instituto Superior Técnico of the Universidade de Lisboa certifies that the student ist429073 **MAURICIO JOSÉ OROZCO FONTALVO**, holder of the Passport No BG411296 and of COLOMBIAN nationality, obtained the degree of **Doutor em Sistemas de Transportes** (Transportation Systems), on 24 October 2025, with the presentation of the thesis entitled

Mobility as a Service: A tool for steering mobility and fostering equitable transport worldwide,

to which the legally constituted jury awarded the final qualification of **Pass with Distinction and Honour**.

The Certificate of Registration No 3728/IST/D/a/2025 was requested.



Electronically signed document

This electronic signature, made under powers delegated or subdelegated by the President of the IST on the subscriber, provides full proof to this document, under Portuguese law (Article 376 of the Civil Code and Article 3 of the Decree-Law 290-D/99 of 2 August).

The qualified electronic signature can be validated using Adobe Acrobat Reader as described here:

<https://certifier.tecnico.ulisboa.pt/tutorial>

The document is available at:

<https://certifier.tecnico.ulisboa.pt/dc4a8367-3cbf-4aa5-a895-21376bd601da>

Alternatively, you can directly access the file by reading the QR code using a camera and a QR code reader application.

