

João Manuel Pereira Dias

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Date and place of birth: 3rd September of 1964 **Nationality:** Portuguese

Education (degrees, dates, universities)

B.Sc. in Mechanical Engineering, IST, Technical University of Lisbon, Portugal, 1989.
M.Sc. in Mechanical Engineering, IST, Technical University of Lisbon, Portugal, 1992.
PhD. in Mechanical Engineering, IST, Technical University of Lisbon, Portugal, 1999.

Positions:

Assistant Professor, Dept. of Mechanical Engineering, Faculty of Engineering (IST), University of Lisbon, since 1999.
Researcher at IDMEC (Institute of Mechanics), Faculty of Engineering (IST), University of Lisbon since its foundation 1995.
Head of the Accident Reconstruction and Investigation Group at IDMEC/IST since 2004.

Research Areas:

Computer Aided Design, Multibody Dynamics, Design Sensitivity Analysis and Optimization, Vehicle Dynamics, Crashworthiness, Accident Investigation, Accident Reconstruction, Injury and Forensic Biomechanics.

Research related with accident investigation and reconstruction:

- Expert in accident reconstruction. About 600 in-depth road accidents investigated.
- Coordinator of the Portuguese Project MRRR "Motorcycles, Rails and Accident Reconstruction", 2005-2009.
- Coordinator of the Portuguese Project SVRU "Safety of Vulnerable Road Users", 2012-2014.
- Member of ETSC working group "Motorcycling Safety Working Party". 2006-2008.
- Member of the OECD group "Improving Safety for Motorcycle, Scooter and Moped Riders", 2010-2014.
- Participant in the Project COST 357 "PROHELM, Accident Prevention Options with Motorcycle Helmets", 2005-2009.
- Participant in the Project TUD COST Action TU1101, "Towards safer bicycling through optimization of bicycle helmets and usage", 2011-2015.
- Participant in the Project COST TU1407, "Scientific and technical innovations for safer Powered Two Wheelers (PTW)", 2015-2019.
- Co-Author of a study for the application of the EU directive 91/439/CEE, in Portugal, 2009.
- Advisor of about 20 Master Thesis and 2 Ph. D. Thesis related with road safety.
- About 60 national and international publications related with vehicle safety and accident investigation.
- Co-Organizer with the Portuguese consumer association (DECO) of a course about road safety for driving instructors, 2005.