

Rock Mechanics and Rock Engineering: Structures on and in rock masses
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Dr. Lemos graduate in Civil Engineering in the University of Porto, Portugal, and he obtained his Master and PhD degrees in Geo-Engineering from the University of Minnesota, where he participated in the development of the discrete element codes UDEC and 3DEC at Itasca Consulting Group, Minneapolis (1984-1988).

Since 1988, Dr. Lemos has been a researcher at LNEC (National Laboratory of Civil Engineering), Lisbon, and Head of Numerical Modeling Division (2002-2010) and Head of Concrete Dams Department (since 2010). He has been mainly involved in the development and application of numerical models for analysis of the behavior and safety control of concrete dams and underground excavations in rock. Dr. Lemos also conducted research on various applications of discrete element models, namely in rock fracture, rock dynamics and structural masonry.

His main research interests regard discrete element modeling in geomechanics, analysis and safety assessment of dam foundations in rock and seismic analysis of masonry structures.

