

Professor Mladen Vucetic

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Short Biography

Mladen Vucetic is a professor of civil engineering who is teaching and conducting research in the field of geotechnical engineering, with the focus on soil dynamics. He obtained his B.S. and M.S. degrees from the University of Zagreb, Croatia, and Ph.D. from the Rensselaer Polytechnic Institute, Troy, NY. Prior to coming to UCLA in 1987, he worked as a geotechnical researcher and engineer at the Civil Engineering Institute of Croatia in Zagreb and the Norwegian Geotechnical Institute in Oslo, Norway.

His research interests encompass: (a) stress-strain conditions in the NGI type direct simple shear test, (b) fundamental aspects of the cyclic and dynamic behavior of clays, silts and sands under uniform and irregular cyclic loads, (c) small-strain cyclic and dynamic behavior of soils, (d) liquefaction mechanism using nonlinear computer models and case history studies, (e) behavior of soil-nailed excavations during earthquakes using centrifuge modeling, (f) development of geotechnical site data bases and their utilization in seismic microzoning using GIS.

Professor Vucetic is the author or coauthor of four state-of-the-art or invited papers, 30 refereed journal papers and 40 papers published in the proceedings of conferences.