

Bio Sketch of Dr. Nelson Martins, CEPEL (January 2011)

B.Sc. (1972) Elec. Eng. from Univ. Brasilia, Brazil; MSc (1974) & PhD (1978) degrees from UMIST, UK, Dr. Martins works in CEPEL, the Brazilian Electrical Energy Research Center located in Rio de Janeiro, since 1978, developing methods and computer tools for power system analysis, dynamics and control, and specialized eigensolution methods. He was consultant or manager to various power system engineering projects, Technical Director (October 2001 to February 2003), and currently is a Research Consultant, Electrical Power Systems, as well as Assistant to the Director General of CEPEL.

Member of the Brazilian Ministry for Mines and Energy Working Group GCE-103 "The January 21, 2002 Blackout: Analysis of its Causes and Means for Reducing the Impact of Future Disturbances", whose report was published in June 2002. Member of the Task Force on "Blackout Experience, Mitigation and Role of New Technologies", whose report received the 2009 IEEE Power Engineering Society (PES) "Working Group Recognition Award for Outstanding Technical Report".

Past convener of CIGRE TF 38.02.16 on "Interaction among Power System Controls" (CIGRE Brochure 166, August 2000), and the CIGRE TF C4.602 on "Coordinated Voltage Control in Transmission Networks" (CIGRE Brochure 310, February 2007), received the awards "Distinguished Member of CIGRE" (2002) and "CIGRE Technical Committee Award" (2007). Technical committee chair of the X SEPOPE conference, Florianopolis (2006) and the XI SEPOPE conference, Belem, Brazil (2009).

Past-chair of the Power System Stability Controls Subcommittee, IEEE-PES Power System Dynamic Performance Committee, for the term 2003-2006; past-chair of the Small Signal Stability Focus Group, and editor of the publication "Recent Applications of Linear Analysis Techniques for Small Signal Stability Analysis and Control", IEEE Catalog Number 06TP177, September 2006. He was elevated to IEEE Fellow, in 1998, "for fundamental developments in eigensolution algorithms and small signal stability analysis for the control of large-scale power systems" and served in the IEEE-PES Fellow Committee for the term 2002-2004. He supervised, in association with renowned professors from Brazilian universities, a total of 10 PhD and 20 MSc students. He is the chair of the task force on Power System Restoration Dynamics, created in June 2007 and reporting to the IEEE-PES Power System Dynamic Performance Committee, from which he received the Distinguished Service Award 2010.

He organized several technical conferences and workshops, published 190 papers in Brazil and abroad, 40 of which in major power engineering and numerical linear algebra journals, and was speaker in numerous workshops and panel sessions of major conferences. His current publication h-index is 14. He lectured brief courses on power system dynamics and control in Brazil, Chile, USA, Canada, UK, Norway, Sweden, France, Germany, Japan, Iran, Switzerland, Finland, Mexico, Colombia, Greece, China (Mainland), Hong Kong and New Zealand.

Publications by Dr. Nelson Martins may be found at: <http://www.nelsonmartins.com/>