

Bio Sketch of Dr. Nelson Martins, CEPEL (updated March 2009)

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 and control and as consultant or manager to various power system engineering projects. Technical Director of CEPEL, from October 2001 to February 2003, he is currently a Research Consultant, Electrical Power Systems and also acts 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.

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

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 several Brazilian universities, a total of 10 PhD students and 20 MSc students. He is the chair of the task force on Power System Restoration Dynamics (co-chaired by Mike Adibi, from IRD Corporation), created in June 2007 and reporting to the IEEE-PES Power System Dynamic Performance Committee.

He organized several technical conferences and workshops, published 190 papers in Brazil and abroad, 35 of which in the IEEE Transactions of Power Systems and Power Delivery, SIAM Journal on Scientific Computation and Linear Algebra and its Applications, and was speaker in numerous panel sessions of international conferences and workshops. His current publication h-index is 13. He lectured brief courses on "Advanced Computer Methods for Small Signal Stability Analysis and Damping Control of Interarea Oscillations" in Brazil, Chile, USA, Canada, UK, Norway, Sweden, France, Germany, Japan, Iran, Switzerland, Finland, Mexico, Colombia, Greece, China (Mainland) and Hong Kong.

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