

Bio Sketch of Nelson Martins, CEPEL (December 2015)

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, the originator and long-time developer of the widely used small-signal stability software PacDyn, 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-chair of the IEEE PES Power System Restoration Dynamics TF of the IEEE-PES Power System Dynamic Performance Committee (PSDPC) (2007-2013), and co-editor of the IEEE-PES TF Compendium "Power System Restoration Dynamics (Issues, Techniques, Planning, Training & Special considerations) 2014.

Past-chair of the 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 or general chair of the Brazilian conferences: X SEPOPE, Florianopolis (2006), XI SEPOPE, Belem (2009), XII SEPOPE, Rio de Janeiro (2012).

Past-chair of the Power System Stability Controls Subcommittee, of the IEEE-PES PSDPC, for the term 2003-2006; past-chair of the Small Signal Stability Focus Group, and editor of the 2006 publication IEEE 06TP177 "Recent Applications of Linear Analysis Techniques for Small Signal Stability Analysis and Control". He was elevated to IEEE Fellow, in 1998, and received the IEEE-PES PSDP Technical Committee Prize Paper Award in 2013. He was elected Member of the Brazilian National Academy of Engineering and, also, a Foreign Member of the US National Academy of Engineering in 2015 and received the 2015 IEEE PES Prabha Kundur Power System Dynamics and Control Award.

He published over 200 papers, 49 of which in the journals: IEEE Trans. on Power Systems and Power Delivery, IET GTD, SIAM SISC e Linear Algebra and its Applications, having 1210 citations (ISI Web) and h-index equal to 17 (ISI Web). He organized technical conferences and workshops and was speaker in panel sessions of major conferences. He supervised, in association with renowned university professors, a total of 10 PhD and 18 MSc students, and lectured brief courses on power system dynamics and control in 19 countries. A list of his publications and additional information may be found at: <http://www.nelsonmartins.com/>.