



Appendice – pubblicazioni selezionate

Lavori su rivista

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- [2] Borghetti, A., F. Napolitano, C. A. Nucci, and F. Tossani, "Response of distribution networks to direct and indirect lightning: Influence of surge arresters location, flashover occurrence and environmental shielding", Electr. Power Syst. Res., vol. 153: Elsevier, pp. 73–81, dec, 2017.
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- [5] Borghetti, A., R. Bottura, M. Barbiroli, and C. A. Nucci, "Synchrophasors-based Distributed Secondary Voltage/VAR Control via Cellular Network", IEEE Trans. Smart Grid, vol. PP, no. 99, pp. 1, Jan 2017.
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- [12] R. Bottura, A. Borghetti, F. Napolitano, C. A. Nucci, "ICT-power Co-simulation Platform for the Analysis of Communication-based Volt/Var Optimization in Distribution Feeders", Innovative Smart Grid Technologies Conference (ISGT), 2014 IEEE PES, Washington DC.

- [39]C.A. Nucci et al., "Lightning induced voltages on overhead power lines. Part III: Sensitivity Analysis", WG C4.401, Electra, pp. 27-30, October, 2005.
- [40]M. Paolone; Peretto, L.; Sasdelli, R.; Tinarelli, R.; Bernardi, M.; Nucci, C.A., "On the Use of Data From Distributed Measurement Systems for Correlating Voltage Transients to Lightning", IEEE Trans. on Instrumentation and Measurement, pp 1202 - 1208, Volume: 53, Issue 4, August 2004.
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- [2] CIGRE-CIRED Joint Working Group C4.402 (including C.A. Nucci), "Protection of MV and LV Networks against Lightning. Part I: Common Topics", CIGRE Technical Brochure No 287, December 2005, and "Part II: Lightning protection of Medium Voltage Networks", December 2010.
- [3] CIGRE Working Group C4.07 (including C.A. Nucci) "Power Quality Indices and Objectives", CIGRE, Technical Brochure No 26, October 2004.

Keynote Speeches, Tutorials e Invited Lectures

- [1] C.A. Nucci, "Lightning Performance of Distribution Lines due to Positive and Negative Indirect Lightning Flashes", invited lecture, The 11th International Symposium on EMC and Transients in Infrastructures and the 13th International Student Session, Kyoto, 21-XII-2017.
- [2] C.A. Nucci, "Positive and Negative Flashes: Their Impact on the Lightning Performance of Distribution Systems", Invited lecture, XIV SIPDA, International Symposium on Lightning Protection, 2-6 - X – 2017.
- [3] C.A. Nucci, Workshop – IEEE PES Careers & Scholarship Plus in Europe: an important opportunity for students of the Electrical Engineering Programs and for relevant Players. Coordinated by Carlo Alberto Nucci, University of Bologna, Italy, IEEE ISGT
- [4] C.A. Nucci, "An integrated traffic and power grid simulator enabling the assessment of e-mobility impact on the grid: a tool for the implementation of the smart grid/city concept", IEEE International Forum Smart Grids for Smart Cities, Paris, October 17, 2016.
- [5] A. Borghetti, C.A. Nucci, M. Paolone, "Controlled islanding for blackout prevention and restoration processes after blackouts", PSCC 2016 panel on Power System Resilience to Major Disturbance, 19th PSCC, Genova, June 2016.
- [6] C.A. Nucci, "Smart Grids for Smart Cities", IEEE Italy Section Schools on Future Energy Systems, Trento, Jan 26-30, 2015.
- [7] F. Napolitano, F. Tossani, C.A. Nucci, F. Rachidi, "LEMP Response Of Multiconductor Lines - Focus on shielding and line lossess effect", presented by C.A. Nucci, XXII Sipda, Belo Horizonte, October 7-11, 2013.
- [8] C.A. Nucci, "The energy policy and the infrastructures in Italy", (invited panel speech), First Global Resource Management Symposium, Kyoto Doshisha University, March 9, 2013
- [9] C.A. Nucci, "Smart grids for Smart Cities. What type of progress in expected", (invited lecture), Italian Cultural Institute in New York, NY city, USA, to be delivered on February 25, 2013.
- [10] C.A. Nucci, "Activities of Cigré and of Cigré Study Committee C4 'System Technical Performance' in Modern and Future Power System Development", (invited lecture), Tsinghua University, Beijing – China, Friday July 6th, 2012
- [11] C.A. Nucci, P. Southwell, A. Negri, "The role of CIGRE IN Power System Component Efficiency and Energy Delivery Effectiveness for Minimal Environmental Impact", (invited panel speech), IEEE T&D conference, Orlando, May 7-10, 2012.
- [12] C.A. Nucci, "The Electric Power Systems Laboratory of the University of Bologna: Recent Activities on Smart Grid Related Issues" (invited seminar), Illinois Institute of Technology, Chicago, february 2012
- [13] C.A. Nucci, "The Electric Power Systems Laboratory of the University of Bologna:

[29]C.A. Nucci, "Lightning induced voltages on overhead distribution lines (with special reference to low-voltage networks)", (Invited lecture), Proc. 4th Int. Symp. on Lightning Protection, IV SIPDA, University of São Paulo, Brazil, 8 -12 September, 1997.

Notizie biografiche: Nato a Bologna nel 1956. Laureato in Ingegneria elettrotecnica nel 1981 con lode e medaglia 'Luigi Donati'. Abilitato alla professione di ingegnere nel 1982. Ricercatore universitario nel 1983, professore di seconda e di prima fascia rispettivamente nel 1992 e nel 2000, presso l'Università di Bologna.

Attività didattica: Presso la Facoltà d'ingegneria dell'Università di Bologna, insegnamento di Centrali elettriche dal 1990 al 2000, di Elementi di sistemi elettrici per l'energia dal 2001 al 2005, di Sistemi elettrici per l'energia e di Elementi di sicurezza elettrica (per corsi di laurea specialistica) rispettivamente dal 2001 e dal 2004.

Docente di alcuni Master universitari ("Innovazione della manutenzione e gestione dei patrimoni urbani ed immobiliari" nel 2003; "Previsione, prevenzione e controllo del rischio industriale" nel 2004; "ENI Corporate Master: Progettazione di Impianti per lo Sviluppo di Campi Petroliferi Offshore" nel 2007; ENI Corporate Master: progettazione di impianti oil & gas" dal 2008 al 2012, tutti organizzati dall'Università degli Studi di Bologna.

Nell'associazione europea EES-UETP, chairman del Program Committee dal 2002 al 2007 e attività didattica per diversi corsi post laurea. Presso il Politecnico Federale di Losanna, docente del "Cours Post gradé Génie Electrique" dal 2001 al 2003.

Attività di ricerca: Responsabile del Laboratorio di Ingegneria dei sistemi elettrici di potenza (LISEP) del Dipartimento di Ingegneria Elettrica.

Attività scientifica principalmente sui seguenti temi: analisi del comportamento dinamico degli impianti di produzione e dei sistemi elettrici di potenza con particolare riferimento alle condizioni di riavvio del sistema dopo un blackout; studio dei transitori elettromagnetici nei sistemi elettrici, ed in particolare di quelli provocati da scariche atmosferiche; gestione delle reti di distribuzione in presenza di generazione distribuita, anche da fonte rinnovabile; "smart grid"; localizzazione dei guasti nelle reti di distribuzione; unità di misura dei fasori della tensione (PMU); caratterizzazione di batterie per veicoli elettrici; impianti per la vetrificazione 'in situ' dei rifiuti.

Mazzetti; Special Issue of the Journal of Electrostatics dedicated to best selected papers presented at the International Conference on Lightning Protection, 2002, con V. Cooray and F. Rachidi; Special issue of the Electric Power Systems Research dedicated to the best papers presented at the International Conference on Power Systems Transients, 2003, con A. Ametani and D. Mader ; Special issue of the Electric Power Systems Research dedicated to the best papers presented at the International Conference on Power Systems Transients, 2005, con J. Mahseredjian, S. Pack and L. Prikler.) Membro dell'Editorial Board dell'International Journal of Engineering Education. Membro dell'Editorial Board del Journal of International Council of Electrical Engineering (JICEE).

Membro dell'Energy board del Politecnico federale di Losanna dal 2007.

Fellow della IEEE e della IET dal 2007.

Membro dell'Accademia delle Scienze dell'Istituto di Bologna dal 2011.