

LIST OF PAPERS OF PROF. GIAN CARLO MONTANARI

Published in major National and International Journals and Conferences

- 1 - "Resonance overvoltages at the connection of capacitors for power factor compensation" (in Italian, with M.Loggini), L'ENERGIA ELETTRICA, pp. 66-71, February 1981.
- 2 - "Significance and importance of the electric strength measurement after aging under combined stresses" (in Italian), L'ENERGIA ELETTRICA, pp. 232-236, June 1981.
- 3 - "A method for the study on harmonic current compensation in low voltage plants" (in Italian, with M.Loggini, R.Miglio), L'ENERGIA ELETTRICA, pp. 243-254, June 1982.
- 4 - "The electric strength measurement for aging evaluation in multiple stress tests" (with G.Pattini, L.Simoni), IEEE INTERNATIONAL SYMPOSIUM on ELECTRICAL INSULATION, pp. 9-12, Philadelphia, June 1982.
- 5 - "Parameters of a failure probability distribution for a dielectric material subjected to electrical and thermal stresses" (in Italian, with M.Cacciari), L'ENERGIA ELETTRICA, pp 206-210, May 1983.
- 6 - "Comparison between two probability functions in the statistical analysis of aging test data of electrical insulating materials" (with M.Cacciari), MATERIALS SCIENCE, Vol.IX, n.3, Wroclaw, Poland, 1983.
- 7 - "Application of a new method to the analysis of combined-stress tests results" (with G.Pattini), FOURTH INTERNATIONAL SYMPOSIUM on HIGH VOLTAGE ENGINEERING, paper 23.02, Athen, September 1983.
- 8 - "Contribution to the analysis of thermal life tests" (in Italian, with G.Pattini), L'ENERGIA ELETTRICA, pp. 353-360, September 1983.
- 9 - "On the compensation of reactive power of low-voltage static-power converters" (in Italian, with M.Loggini, M.Cacciari), L'ENERGIA ELETTRICA, pp. 19-27, January 1984.
- 10 - "Voltage endurance of XLPE insulated cable models" (with G.Pattini, L.Simoni), IEEE INTERNATIONAL SYMPOSIUM on ELECTRICAL INSULATION, pp. 55-58, Montreal, Canada, June 1984.
- 11 - "Evaluation of thermal and electrical aging of an insulating composite material by dielectric and microstructural investigation" (with F.Sandrolini, A.Motori, S.Masoni, G.Pattini, L.Simoni), IEEE INTERNATIONAL SYMPOSIUM on ELECTRICAL INSULATION, pp. 280-283, Montreal, Canada, June 1984.
- 12 - "A filter design for reactive power compensation in low voltage systems" (with M.Loggini, M.Cacciari), IEEE INTERNATIONAL CONFERENCE on HARMONICS in POWER SYSTEMS, pp. 167-173, Worcester, USA, October 1984.
- 13 - "Statistical methods for aging-time censored tests on insulating materials" (in Italian, with M.Cacciari) L'ENERGIA ELETTRICA, pp. 519-524, December 1984.
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- 15 - "Investigation on the combined-stress behavior of XLPE insulated cables" (with G.Pattini, L.Simoni), INTERNATIONAL CONFERENCE on PROPERTIES and APPLICATIONS of DIELECTRIC MATERIALS, pp. 709-712, Xian, China, June 1985.
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- 17 - "An approximate method to calculate parameters, percentiles and confidence bounds for a Weibull function valid for progressively-censored tests" (in Italian, with M. Cacciari), METRON, Vol.XLIII, n.1-2, pp. 67-84, June 1985.

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- 21 - "Study of contribution of harmonic filters to the reduction of voltage distortion" (in Italian, with M.Loggini, R.Belli), L'ENERGIA ELETTRICA, pp. 366-373, October 1985.
- 22 - "Thermal endurance evaluation of insulating materials: a theoretical and experimental analysis" (with G.Pattini), IEEE TRANSACTIONS on ELECTRICAL INSULATION, Vol.EI-21, n.1, pp. 69-77, February 1986.
- 23 - "Insulating material endurance to electrical and thermal stresses, separately or simultaneously applied" (in Italian, with L.Simoni, G.Pattini, M.Cacciari), L'ENERGIA ELETTRICA, pp. 66-80, February 1986.
- 24 - "On the estimation of life of power apparatus insulation under combined electrical and thermal stress", Discussion (with L. Simoni), IEEE TRANSACTIONS on ELECTRICAL INSULATION, Vol.EI-21, n.2, pp. 239-240, April 1986.
- 25 - "A contribution to the investigation of aging mechanisms in XLPE cables" (with A.Motori, F.Sandrolini, L.Gherardi), IEEE INTERNATIONAL SYMPOSIUM on ELECTRICAL INSULATION, Washington D.C., USA, June 1986.
- 26 - "Harmonic compensation in low-voltage electrical plants" (with M.Loggini e R.Belli), 2nd INTERNATIONAL CONFERENCE on HARMONICS in POWER SYSTEMS, pp. 297-301, Winnipeg, Canada, October 1986.
- 27 - "Voltage-distortion compensation in electrical plants supplying static power converters" (with M.Loggini), I&CPS Technical Conference, 103-110, Cleveland, USA, May 1986, "Committee Prize Paper Award" from IEEE Industry Application Society, published in IEEE TRANSACTIONS on INDUSTRY APPLICATION, vol.IA-23, n.1, pp. 181-188, February 1987.
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- 29 - "A method to estimate the Weibull parameters for progressively censored tests" (with M.Cacciari), IEEE TRANSACTIONS on RELIABILITY, vol.R-36, n.1, pp. 87-93, April 1987.
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- 31 - "Residual electric strength measurements as a method to evaluate materials endurance" (with L.Simoni, G.Pattini), 5th ISH, n.22.09, Braunschweig, Germany, 24-28 August 1987.
- 32 - "Voltage and current distortion compensation in electrical plants supplying static converters" (in Italian, with M.Loggini), L'ENERGIA ELETTRICA, n.12, pp. 509-520, December 1987, AEI prize "Maria Faletti-Nosari".
- 33 - "Electrical life models of insulating materials" (in Italian), L'ENERGIA ELETTRICA, n.1, pp. 35-43, January 1988.
- 34 - "Electrical Endurance of EPR insulated cables" (with G. Pattini, L.Simoni), invited paper, IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL INSULATION, pp. 196-199, Boston, 5-8 June 1988.
- 35 - "Aging of XLPE cable models under combined thermal and electrical stresses" (with A.Motori, F.Sandrolini), 2nd International Conference on Engineering Materials, Bologna, Italy, 20-23 giugno 1988.

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- 41 - "Filters and protection reactance for distortion compensation in low voltage plants" (with M.Loggini), IEEE Industry Application Society Annual Meeting, pp. 1488-1494, Pittsburgh, October 1988
- 42 - "Correlation of Arrhenius parameters: the Electro-technical Aging Compensation Effect", Discussion with P. K. David, IEEE TRANSACTIONS on ELECTRICAL INSULATION, Vol. EI-23, n.6, pp. 1057-1063, December 1988.
- 43 - "A generalized breakdown probability function for insulations with exponential life model" (in Italian, with M. Cacciari), METRON, Vol.XLVI, n.1-4, pp. 253-273, December 1988.
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- 60 - "Compensation effect in the study of thermal aging of insulating materials" (in Italian), L'ENERGIA ELETTRICA, n. 11, pp. 485-497, November 1990.
- 61 - "Evaluacion de filtros de armonicas de corriente" (with M. Loggini), CONCAPAN, Panama, pp. 1-12, November 1990.
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- 69 - "Metodologias para el control de las armonicas en sistemas de potencia" (with M. Loggini, D. Perez), IEEE RVP'91, pp. 144-151, Cabo, Messico, July 1991.
- 70 - "Life models for PET films subjected to multiple thermal-electrical stresses" (with S.M. Gubanski), 7th INTERNATIONAL SYMPOSIUM ON HIGH VOLTAGE ENGINEERING, Dresda, Germania, pp. 156-158, August 1991.
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- 81 - "Considerations about power definitions in non-sinusoidal conditions" (with A. Menchetti, R. Sasdelli), IMEKO 5th INTERNATIONAL SYMPOSIUM ON ELECTRICAL MEASURING INSTRUMENTS for LOW and MEDIUM FREQUENCIES, 11-17, Vienna, Austria, April 1992.
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- 85 - "The Kalman filter as a way to estimate the life-model parameters of insulating materials and systems" (with G. Tambini, M. Cacciari), 4th INTERNATIONAL CONFERENCE ON CONDUCTION and BREAKDOWN in SOLID DIELECTRICS, pp. 523-527, Sestri Levante, Italy, June 1992.
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- 94 - "General criteria for the stochastic sum of measured harmonics at plant busses" (with M. Cacciari, A. Cavallini, M. Loggini), IEEE INDUSTRY APPLICATION SOCIETY ANNUAL MEETING, 1351-1359, Houston, USA, 4-9 October 1992.
- 95 - "Considerations on the compatibility conditions of the Eyring model applied for multiple stresses" (with G. Mazzanti, L. Simoni), IEEE CONFERENCE ON ELECTRICAL INSULATION AND DIELECTRIC PHENOMENA, 771-777, Victoria, USA, 19-21 October 1992.
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- 118 - "Evaluation of harmonic levels in electrical networks by statistical indexes" (with M. Cacciari, A. Cavallini, M. Loggini), IEEE Industry Application Annual Meeting, 1586-1593, Toronto, Canada, 4-9 ottobre 1993, published in IEEE TRANSACTIONS ON INDUSTRY APPLICATION, Vol. IA-30, n. 4, 1116-1126, August 1994.
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 Number: WO 2007/093861 A3 (estensione PCT); PR2006A000012 , 1984679 (Pubblicazione)

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 Authors: Montanari GC, Pasini G, Bettio F, Cavallini A, Puletti F., Andreani D
 Number: WO 2007/144789 A3; PR2006A000054

- 3- Patent Name: Metodo per l’analisi di un sistema elettrico mediante lo studio di scariche elettriche parziali
 Authors: Montanari GC, Cavallini A, Puletti F
 Number: 1328458 (brevetto italiano concesso)

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 Authors: Montanari GC, Pasini G, Cavallini A
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 Authors: Montanari GC, Pasini G, Cavallini A
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 Authors: Montanari GC, Pasini G, Cavallini A
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 Authors: Montanari GC, Pasini G, Cavallini A
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 Authors: Montanari GC, Testa A.
 Number: BO2009A000082
- 11- Patent name: Dispositivo e procedimento per localizzare scariche parziali.
 Authors: Montanari G.C., Cavallini A., Pasini G., Serra S.
 Number: BO2009A0000192, BO2009A0000193
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 Number: BO2009A0000352
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 Authors: Montanari G.C., Tozzi M.
 Number: BO2009A0000353
- 14- Patent name: Dispositivo per rilevare scariche elettriche parziali
 Authors: Montanari G.C., Tozzi M., Hani Saad
 Number: BO2009A0000354

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