

## **Jovica V. Milanovic (Professor)**

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### **Biography – copied from Prof's web site**

I joined The University of Manchester (formerly UMIST) in January 1998. From April 2007 I have been a member of School Leadership Team, as Director of Research (4/2007-4/2010), Director of External Affairs (5/2010-) and Deputy Head of School (10/2013-). I was Head of Electrical Energy and Power Systems Group between 2/2014-1/2016. I am Visiting Professor at the University of Novi Sad, Novi Sad, Serbia (1/2010-) and the University of Belgrade, Belgrade, Serbia (7/2015-) and Conjoint Professor at the University of Newcastle, Newcastle, Australia (4/2012-).

Prior to joining The University of Manchester I worked with Energoprojekt, engineering and consulting company in Belgrade, Yugoslavia (<http://eng.energoprojekt.rs/>), University of Belgrade, Yugoslavia (<http://www.etf.bg.ac.rs>) and the universities of Newcastle (<http://www.newcastle.edu.au/school/electrical-engineering-computer-science/>) and Tasmania (<http://fcms.its.utas.edu.au/scieng/eng/people.asp>) in Australia. As Lecturer in Power Engineering in the Department of Electrical Engineering and Computer Science of the University of Tasmania, I co-established with, then Dr Michael Negnevitsky, one of Australia's first (if not the first) centres for power quality research.

My research and consultancy work over the years has been equally split between the areas of Power System Dynamics and Power Quality with a common, underlying stream of probabilistic / stochastic modelling of uncertainties of events and system parameters. As far as my contribution to national and international industry is concerned, apart from some software tools developed by my team of researchers and occasional consultancy work, it is probably best reflected through my involvement in development of industrial guidelines and best practices as a member of CIGRE/CIRED/IEEE Working Groups. I am or was a member of several CIGRE/CIRED/IEEE WGs and a convener of CIGRE WG C4.605 "Modelling and aggregation of loads in flexible power networks", CIGRE/CIRED JWG C4.112 "Guidelines for power quality monitoring, analysis and presentation of results" (<http://www.e-cigre.org/>) and a co-chair of IEEE TF "Stability definitions and characterisation of dynamic behaviour in systems with high penetration of power electronic interfaced technologies".

In addition to being involved in tens of technical and programme committees of international conferences I was Chairman of the 7th IASTED International Conference on Power and Energy Systems (EuroPES 2007), Vice-Chairman of Local Organising Committee of the 16th Power System Computation Conference (PSCC 2008), Chairman of the 2nd IEEE PES Conference on Innovative Smart Grid Technologies – Europe, (ISGT PES-Europe 2011) and Chairman of the 12th IEEE PES PowerTech Conference, (PowerTech Manchester 2017).

Since January 2015 I am IEEE Power & Energy Society (PES) Regional representative for Europe, Middle East and Africa and member of IEEE PES Governing Board and since 2016 I am a member of the IEEE PES Fellows Committee.

### **Qualifications**

- Dipl.Ing. (Elec. Eng.), The University of Belgrade, Belgrade, Yugoslavia.
- M.Sc. (Elec. Eng.), The University of Belgrade, Belgrade, Yugoslavia.
- Ph.D. (Elec. Eng.), The University of Newcastle, Newcastle, Australia.
- D.Sc. (Elec. Eng.), The University of Manchester, Manchester, UK.

### **Memberships of committees and professional bodies.**

- Chartered Engineer.
- Fellow (foreign) of Serbian Academy of Engineering Sciences.
- Fellow IEEE.
- Fellow IET.
- IEEE PES Distinguished Lecturer.
- IEEE PES Regional Representative Europe, Middle East & Africa.
- Member IEEE PES Governing Board.
- Member IEEE PES Fellows Committee.

### **Research interests**

The results of research in general areas of Power System Dynamics and Power Quality that I was fortunate to be able to carry out over the years with my teams of exceptionally talented and hard-working Postdoctoral Research Associates (14), PhD students (26), MSc students (68) and academic visitors (22) are in over to 450 research papers (including over 140 journal papers) and presented at 75 academic and 56 industrial courses and lectures that I have given around the world.

My research interests are still in the area of probabilistic studies of uncertain systems and currently include:

- Probabilistic modelling and analysis of uncertain and complex interconnected systems .
- Application of Data Analytics to power systems.
- Close to real time assessment of Power system dynamic behavior.
- Risk based stability assessment and control of power systems.

- Global assessment/mitigation of Power Quality in sparsely monitored networks.
- Modelling and operation of networks with DG & RES.
- Power system load modelling.

#### **Citation counts:**

- Web of Science: unavailable.
- Google scholar: unavailable.
- Scopus: 3507 total citations by 2441 documents.

#### **Publications**

Critical appraisal of tools and methodologies for studies of cascading failures in coupled critical infrastructure systems, Chen, Y. & Milanovic, J. V. 17 Aug 2017 IEEE EUROCON 2017 -17th International Conference on Smart Technologies.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Cyber-physical system failure analysis based on Complex Network theory

Zhu, W. & Milanovic, J. V. 17 Aug 2017 Smart Technologies, IEEE EUROCON 2017 -17th International Conference on.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/EUROCON.2017.8011177

E-pub ahead of print

Estimation and Validation of Characteristic Load Profile through Smart Grid Trials in a Medium Voltage Distribution Network

Tang, X., Hasan, K. N., Milanovic, J. V., Bailey, K. & Stott, S. J. 17 Aug 2017 In : IEEE Transactions on Power Systems.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2017.2740563

Zonal Mitigation of Power Quality Using FACTS Devices for Provision of Differentiated Quality of Electricity Supply in Networks with Renewable Generation

Liao, H., Abdelrahman, S. & Milanovic, J. V. Aug 2017 In : IEEE Transactions on Power Delivery. 32, 4, p. 1975-1985 11 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2016.2585882

An approach to controlled islanding based on PMU measurements

Awadalla, M., Papadopoulos, P. & Milanovic, J. V. 20 Jul 2017 PowerTech, 2017 IEEE Manchester.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Application of data analytics for advanced demand profiling of residential load using smart meter data

Milanovic, J. V. & Ponocko, J. 20 Jul 2017 PowerTech, 2017 IEEE Manchester.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Efficient identification of critical load model parameters affecting power system voltage stability

Zhu, Y. & Milanovic, J. V. 20 Jul 2017 PowerTech, 2017 IEEE Manchester.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Feasibility of Different Corrective Control Options for the Improvement of Transient Stability

Morales Alvarado, J., Papadopoulos, P. & Milanovic, J. V. 20 Jul 2017 PowerTech, 2017 IEEE Manchester.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Identification of Critical Parameters Affecting Voltage Stability in Networks with Renewable Generations using Sensitivity Analysis Methods

Qi, B. & Milanovic, J. V. 20 Jul 2017 PowerTech, 2017 IEEE Manchester.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2017.7981186

Interdependency modeling of cyber-physical systems using a weighted complex network approach

Zhu, W. & Milanovic, J. V. 20 Jul 2017 PowerTech, 2017 IEEE Manchester.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Probabilistic framework for transient stability assessment of power systems with high penetration of renewable generation

Papadopoulos, P. & Milanovic, J. V. Jul 2017 In : IEEE Transactions on Power Systems. 32, 4, p. 3078-3088 11 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2016.2630799

Accepted/In press

Probabilistic stability analysis – the way forward for stability analysis of sustainable power systems

Milanovic, J. V. 17 May 2017 In : Royal Society of London. Proceedings A. Mathematical, Physical and Engineering Sciences.

Research output: Contribution to journal › Article

Accepted/In press

Methodology for Online identification of dynamic behavior of power systems with increased amount of power electronics interfaced units

Papadopoulos, P. & Milanovic, J. V. 1 Apr 2017 In : CSEE Journal of Power and Energy Systems.

Research output: Contribution to journal › Article

On capability of different FACTS devices to mitigate a range of power quality phenomena

Liao, H. & Milanović, J. V. 30 Mar 2017 In : IET Generation, Transmission and Distribution. 11, 5, p. 1202-1211 10 p.

Research output: Contribution to journal › Article

DOI: 10.1049/iet-gtd.2016.1017

Probabilistic Framework for Online Identification of Dynamic Behavior of Power Systems with Renewable Generation

Papadopoulos, P., Guo, T. & Milanovic, J. V. 28 Mar 2017 In : IEEE Transactions on Power Systems.  
Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2017.2688446

Towards Application of Text Mining for Enhanced Power Network Data Analytics – Part II: Off-line analysis of Textual Data

Chen, Y., Ponocko, J., Milosevic, N., Nenadic, G. & Milanovic, J. V. 23 Mar 2017 Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion : MedPower 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1049/cp.2016.1077

Application of data analytics for information retrieval from a typical DSO's database

Ponocko, J., Milanovic, J. V., Preece, R. & Wooley, N. C. 16 Feb 2017 PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2016.7856314 10.1109/ISGTEurope.2016.7856314

Feasibility Study of Applicability of Recurrence Quantification Analysis for Clustering of Power System Dynamic Responses

Papadopoulos, P., Milanovic, J. V., Bhui, P. & Senroy, N. 16 Feb 2017 PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2016.7856236

Probabilistic ranking of critical parameters affecting voltage stability in network with renewable generation

Qi, B., Zhu, Y. & Milanovic, J. V. 16 Feb 2017 PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2016.7856275

Probabilistic ranking of power system loads for voltage stability studies in networks with renewable generation

Zhu, Y., Qi, B. & Milanovic, J. V. 16 Feb 2017 PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2016.7856274

Modelling of Interconnected Critical Infrastructure Systems Using Complex Network Theory

Milanovic, J. V. & Zhu, W. 7 Feb 2017 In : IEEE Transactions on Smart Grid. 99

Research output: Contribution to journal › Article

DOI: 10.1109/TSG.2017.2665646

Methodology for the analysis of voltage unbalance in networks with single-phase distributed generation

Liao, H. & Milanović, J. V. 30 Jan 2017 In : IET Generation, Transmission and Distribution. 11, 2, p. 550-559 10 p.

Research output: Contribution to journal › Article

DOI: 10.1049/iet-gtd.2016.1155

ASSESSMENT OF THE IMPACT OF DEMAND SIDE MANAGEMENT ON DISTRIBUTION NETWORK VOLTAGE STABILITY

Tang, X. & Milanovic, J. V. 2017 CIRED 2017.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Automatic Identification of Power System Load Models Based on Field Measurements

Zhu, Y. & Milanovic, J. V. 2017 In : IEEE Transactions on Power Systems. 1 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2017.2763752

#### Efficient Identification of Transient Instability States of Uncertain Power Systems

Papadopoulos, P. & Milanovic, J. V. 2017 IREP 2017, X Bulk Power Systems Dynamics and Control Symposium.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

#### Fast online identification of power system dynamic behaviour

Papadopoulos, P., Bhui, P., Milanovic, J. V. & Senroy, N. 2017 IEEE PES General Meeting.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

#### SMART METER-DRIVEN ESTIMATION OF RESIDENTIAL LOAD FLEXIBILITY

Ponocko, J. & Milanovic, J. V. 2017 CIRED 2017.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

#### The Influence of Load on Risk-based Small-Disturbance Security Profile of a Power System

Hasan, K., Preece, R. & Milanovic, J. 2017 In : IEEE Transactions on Power Systems. PP, 99

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2017.2693502

2016

Application of sequential testing problem to online detection of transient stability status for power systems

Gonzalez, J., Kitapbayev, Y., Guo, T., Milanovic, J. V., Peskir, G. & Moriarty, J. 29 Dec 2016 2016 IEEE 55th Conference on Decision and Control (CDC).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/CDC.2016.7798484

Assessment of power quality performance in distribution networks: Part I – Measurement campaign and initial analysis

Gasch, E., Domagk, M., Meyer, J., Abdelrahman, S., Liao, H. & Milanovic, J. V. 15 Dec 2016 Harmonics and Quality of Power (ICHQP), 2016 17th International Conference on.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution



DOI: 10.1109/ICHQP.2016.7783325

Assessment of power quality performance in distribution networks: Part II – Performance indices and ranking of network buses

Abdelrahman, S., Liao, H., Milanovic, J. V., Gasch, E., Domagk, M. & Meyer, J. 15 Dec 2016 Harmonics and Quality of Power (ICHQP), 2016 17th International Conference on.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ICHQP.2016.7783326

Probabilistic Estimation of Distribution Network Performance With Respect to Voltage Sags and Interruptions Considering Network Protection Setting: Part I – The Methodology

Cebrian, J. C., Kagan, N. & Milanovic, J. V. 1 Dec 2016 In : IEEE Transactions on Power Delivery. 99

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2016.2633518

Accepted/In press

Probabilistic Estimation of Distribution Network Performance With Respect to Voltage Sags and Interruptions Considering Network Protection Setting: Part II – Economic Assessment

Cebrian, J. C., Kagan, N. & Milanovic, J. V. 1 Dec 2016 In : IEEE Transactions on Power Delivery.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2016.2633520

A Framework to assess the effect of reduction in inertia on system frequency response

Adrees, A., Papadopoulos, P. & Milanovic, J. V. 14 Nov 2016 Power and Energy Society General Meeting (PESGM), 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2016.7741695

Efficient identification of critical parameters affecting the small-disturbance stability of power systems with variable uncertainty

Hasan, K., Preece, R. & Milanovic, J. V. 14 Nov 2016 Power and Energy Society General Meeting (PESGM), 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2016.7741291

Probabilistic assessment of transient stability in reduced inertia systems

Papadopoulos, P., Adrees, A. & Milanovic, J. V. 14 Nov 2016 Power and Energy Society General Meeting (PESGM), 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2016.7741651

Priority Ranking of Critical Uncertainties Affecting Small-Disturbance Stability Using Sensitivity Analysis Techniques

Hasan, K., Preece, R. & Milanovic, J. 20 Oct 2016 In : IEEE Transactions on Power Systems. PP, 99

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2016.2618347

Real time synchronous generator dynamic reactive reserve monitoring by coordinated reactive power voltage controller

Dragosavac, J., Janda, Ž., Arnautović, D., Gajić, T., Dobričić, S., Milanovic, J. V., Subotic, S. & Mihic, B. 24 Aug 2016 CIGRE 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Study of frequency response in power system with renewable generation and energy storage

Adrees, A. & Milanovic, J. V. 11 Aug 2016 Power Systems Computation Conference (PSCC), 2016.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

DOI: 10.1109/PSCC.2016.7540912

Pathway to cost-efficient state estimation of future distribution networks

Liao, H. & Milanovic, J. V. 17 Jul 2016 Power and Energy Society General Meeting (PESGM), 2016.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

DOI: 10.1109/PESGM.2016.7741337

The influence of different storage technologies on large power system frequency response

Adrees, A., Song, J. & Milanovic, J. V. 14 Jul 2016 Power Electronics and Motion Control Conference (IPEMC-ECCE Asia), 2016 IEEE 8th International.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/IPEMC.2016.7512295

Frequency Stabilisation Using VSC-HVDC

Shen, L., Barnes, M., Preece, R. & Milanovic, J. Jul 2016 2016 IEEE PES GM Proceedings. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Power Quality

Milanovic, J. Jul 2016 Smart Grid Handbook, Part III Distribution, Section 38. Liu, C., McArthur, S. & Lee, S.-J. (eds.). United Kingdom: Wiley, Vol. 2, p. 727 – 744 17 p.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Comparison of dynamic models of battery energy storage for frequency regulation in power system

Adrees, A., Andami, H. & Milanovic, J. V. 23 Jun 2016 Electrotechnical Conference (MELECON), 2016 18th Mediterranean.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/MELCON.2016.7495314

Validation of performance of Joint Excitation and Reactive Power Controllers using commercially available power system analysis software packages

Mihic, B., Subotic, S., Dragosavac, J., Janda, Ž., Arnautović, D. & Milanovic, J. V. 22 Mar 2016 32nd International conference Energy 2016.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Efficient Estimation of the Probability of Small-disturbance Instability of Large Uncertain Power Systems

Preece, R. & Milanovic, J. V. Mar 2016 In : I E E Transactions on Power Systems. 31, 2, p. 1063-1072 10 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2015.2417204

Comparative analysis of data availability and data requirements for efficient management and control of future distribution networks

Ponocko, J. & Milanovic, J. V. 2016 IET Conference Publications. CP711 ed. Institution of Engineering and Technology , Vol. 2016

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Day-ahead Prediction and Shaping of Dynamic Response of Demand at Bulk Supply Points

Xu, Y. & Milanovic, J. V. 2016 In : IEEE Transactions on Power Systems. 31, 4, p. 3100-3108

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2015.2477559

Methodology for close to real time profiling of aggregated demand using data streams from smart meters

Li, K., Ponocko, J., Zhang, L. & Milanovic, J. V. 2016 IET Conference Publications. CP711 ed. Institution of Engineering and Technology , Vol. 2016

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

On-line identification of power system dynamic signature using PMU measurements and data mining

Guo, T. & Milanovic, J. V. 2016 In : IEEE Transactions on Power Systems. 31, 3, p. 1760-1768

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2015.2453424

Optimisation Framework for Development of Cost-effective Monitoring in Distribution Networks

Liao, H., Liu, Z. & Milanovic, J. V. 2016 In : IET Generation, Transmission and Distribution. 10, 1, p. 240-246

Research output: Contribution to journal › Article

DOI: 10.1049/iet-gtd.2015.0757

Quantification of uncertainty in end-of-life failure models of power transformers for transmission systems reliability studies

Awadallah, S., Milanovic, J. V. & Jarman, P. N. 2016 In : IEEE Transactions on Power Systems. 31, 5, p. 4047-4056

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2015.2497969

Towards application of text mining for enhanced power network data analytics - Part I: Retrieval and ranking of textual data from the internet

Chen, P., Ponocko, J., Milosevic, N., Nenadic, G. & Milanovic, J. V. 2016 IET Conference Publications. CP711 ed. Institution of Engineering and Technology , Vol. 2016, 8 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Towards application of text mining for enhanced power network data analytics - Part II: Offline analysis of textual data

Chen, Y., Ponocko, J., Milosevic, N., Nenadic, G. & Milanovic, J. V. 2016 IET Conference Publications. CP711 ed. Institution of Engineering and Technology , Vol. 2016

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

2015

The Effect of VSC HVDC Control and Operating Condition on Dynamic Behavior of Integrated AC/DC System

Shen, L., Barnes, M., Preece, R., Milanovic, J., Bell, K. R. W. & Belivanis, M. 18 Mar 2015 In : I E E E Transactions on Power Delivery. 31, 3, p. 1085-1095 11 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2015.2414824

IET GB Power System Modelling Capability Reports for the Council of Science and Technology: "Modelling Requirements to Assess The Resilience of The Electricity System as it is Adapted to Deliver Low Carbon Transition: "Dynamic Analysis of Systems with New Equipment, Devices, Control Approaches and Operating Modes".

Milanovic, J. V. Mar 2015 Institution of Engineering and Technology .

Research output: Book/Report › Commissioned report

Integrated AC/DC model for power system stability studies

Shen, L., Wang, W., Barnes, M. & Milanovic, J. 10 Feb 2015 host publication. Birmingham: Institution of Engineering and Technology , p. 1-6 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

A Step-by-Step Data Processing Guideline for Load Model Development Based on Field Measurements

Hasan, K. N., Milanovic, J., Turner, P. & Turnham, V. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Artificial Intelligence Based Methodology for Load Disaggregation at Bulk Supply Point

Xu, Y. & Milanovic, J. 2015 In : IEEE Transactions on Power Systems. 30, 2, p. 795-803 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/tpwrs.2014.2337872

Assessing the Applicability of Uncertainty Importance Measures for Power System Studies

Preece, R. & Milanovic, J. 2015 In : IEEE Transactions on Power Systems.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2015.2449082

Assessment of Suitability of Different Reliability Importance Measures for Prioritising Replacement of Transmission System Components

Awadallah, S. K. E., Milanovic, J., Wang, Z. & Jarman, P. N. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Case Studies of Application of Process Immunity Time in Assessment of Financial Losses due to System Faults Induced Industrial Process Interruptions

Cebrian, J. C., Milanovic, J. & Kagan, N. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Characterisation of Power Quality Performance at Network Buses Using Unified Power Quality Index

Liao, H., Abdelrahman, S. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Characterization of power quality performance at network buses using unified power quality index

Abdelrahman, S., Liao, H. & Milanovic, J. V. 2015 23rd International Conference on Electricity Distribution, CIRED 2015. p. 1-5 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Comparative Analysis of Different Voltage Sag Characterisation Indices

Liao, H. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Comparison of Ensemble Decision Tree Methods for On-line Identification of Power System Dynamic Signature Considering Availability of PMU Measurements

Guo, T., Papadopoulos, P., Mohammad, P. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Framework for Sensitivity Analysis of Torsional modes

Adrees, A. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Global Assessment of Power Quality Performance of Networks using the Analytic Hierarchy Process Model

Abdelrahman, S., Liao, H., Guo, T., Guo, Y. & Milanovic, J. 2015

Research output: Contribution to conference › Paper

Global Assessment of Power Quality Performance of the Network Using Analytic Hierarchy Process Model

Abdelrahman, S., Liao, H., Guo, T., Guo, Y. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Identification of Weak Areas of Network based on Exposure to Voltage Sags — Part II: Assessment of Network Performance using Sag Severity Index

Liao, H., Abdelrahman, S., Guo, Y. & Milanovic, J. 2015 In : I E E E Transactions on Power Delivery. 30, 6, p. 2401 - 2409 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2014.2362957

Identification of Weak Areas of Power Network Based on Exposure to Voltage Sags—Part I: Development of Sag Severity Index for Single-Event Characterization

Liao, H., Abdelrahman, S., Guo, Y. & Milanovic, J. 2015 In : I E E E Transactions on Power Delivery. 30, 6, p. 2392-2400 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2014.2362965

Impact of Measurement Signals on the Accuracy of On-line Identification of Power System Dynamic Signature

Papadopoulos, P. N., Guo, T., Wang, X. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution



Impact of Penetration of Non-Synchronous Generators on Power System Dynamics

Papadopoulos, P. N. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Optimal Compensation of Transmission Lines Based on Minimisation of the Risk of SSR

Adrees, A. & Milanovic, J. 2015 In : I E E E Transactions on Power Systems.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2015.2422775

Overview of Power System Reliability Assessment Considering Age Related Failure of Equipment

Awadallah, S. K. E., Milanovic, J., Wang, Z. & Jarman, P. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Parallel Operation of Two Adjacent Steam Power Plants Under Coordinated Q-V Control

Dragosavac, J., Janda, Ž., Gajić, T., Arnautović, D. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Practical aspects of developing load models at distribution network buses based on field measurements

Hasan, K., Milanovic, J. V., Turnham, V. & Turner, P. 2015 CIREN 2015. p. 1-5 5 p. 0395

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Probabilistic Assessment of Financial Losses in Distribution Network due to Fault Induced Process Interruptions Considering Process Immunity Time

Cebrian, J. C., Milanovic, J. & Kagan, N. 2015 In : I E E E Transactions on Power Delivery. 30, 3, p. 1478-1486 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2014.2364558

Probabilistic estimation of rated demand at bulk supply point

Xu, Y. & Milanovic, J. 2015 PowerTech, 2015 IEEE Eindhoven. Institute of Electrical and Electronics Engineers , p. 1-6 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Probabilistic Estimation of Voltage Unbalance in MV Distribution Networks with Unbalanced Load

Liu, Z. & Milanovic, J. 2015 In : I E E E Transactions on Power Delivery. 30, 2, p. 693-703 10 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2014.2322391

Probabilistic Risk Assessment of Rotor Angle Instability Using Fuzzy Inference Systems

Preece, R. & Milanovic, J. 2015 In : I E E E Transactions on Power Systems. 30, 4, p. 1-11 10 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2014.2352678

Provision of Differentiated Power Quality Using Network Based Mitigating Solutions

Liao, H., Saif, J. & Milanovic, J. 2015 CIREN 2015.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Provision of Differentiated Voltage Sag Performance Using FACTS Devices

Liao, H., Abdelrahman, S. & Milanovic, J. 2015 CIREN 2015. p. 1-5 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Risk-based Small-disturbance Security Assessment of Power Systems

Preece, R. & Milanovic, J. 2015 In : I E E E Transactions on Power Delivery. 30, 2, p. 590-598 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2014.2301876

Robust Methodology for Cost-effective Design of Large Offshore Wind Farms

Ali, M., Nedic, D. P. & Milanovic, J. 2015 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

The influence of modelling transformer age related failures on system reliability

Awadallah, S. K. E., Milanovic, J. & Jarman, P. N. 2015 In : I E E E Transactions on Power Systems. 30, 2, p. 970-979 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2014.2331103

2014

CIGRE/CIRED JWG C4.112: "Guidelines for power quality monitoring– measurement locations, processing and presentation of data"

Milanovic, J. , Kilter, J. , Bahramirad, S. , Ball, R. , Barrera, V. , Bollen, M. H. J. , Correia, D. , Čukalevski, N. , Dabin, A. , Doyle, P. , Elphick, S. , Gilson, P. , Howe, B. , Höglund, J. , Meyer, J. , Neumann, R. , Parent, B. , Schaug-Pettersen, J. , Ribeiro, P. F. , Romero, J. M. & 10 others Oct 2014 No publisher name.

Research output: Book/Report › Commissioned report

Assessing Transformer Reliability using Post-Mortem Data and Health Indices

Patel, B., Wang, Z. D., Milanovic, J. & Jarman, P. Sep 2014 Condition Monitoring and Diagnosis (CMD) ,2014 International Conference on. p. 472-475 4 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Methodology for Estimation of Dynamic Response of Demand Using Limited Data

V Milanovic, J. & Yizheng, X. 19 Aug 2014 In : IEEE Transactions on Power Systems. 30, 2, p. 1288-1297 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2014.2343691

Potential interactions between VSC HVDC and STATCOM

Shen, L., Barnes, M., Milanovic, J. V., Bell, K. & Belivanis, M. 19 Aug 2014 host publication. Wroclaw, Poland: Institute of Electrical and Electronics Engineers , p. 1-7 7 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PSCC.2014.7038319 10.1109/PSCC.2014.7038319

Assessment of the Economic Value of Voltage Sag Mitigation Devices to Sensitive Industrial Plants

Chan, J. Y. & Milanovic, J. Aug 2014 In : IEEE Transactions on Power Delivery.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2014.2355877

Interactions between STATCOM and VSC HVDC in dynamic GB system

Shen, L., Barnes, M. & Milanovic, J. Apr 2014 host publication. Institution of Engineering and Technology , p. 1-6 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

CIGRE WG C4.605 : “Modelling and aggregation of loads in flexible power networks”

Milanovic, J. , Matevosyan, J. , Gaikwad, A. , Borghetti, A. , Djokić, S. Ž. , Dong, Z. Y. , Halley, A. , Korunović, L. M. , Villanueva, S. M. , Ma, J. , Pourbeik, P. , Resende, F. , Sterpu, S. , Villella, F. , Yamashita, K. , Auer, O. , Karoui, K. , Kosterev, D. , Leung, S. K. , Mtolo, D. & 3 others Feb 2014 No publisher name.

Research output: Book/Report › Commissioned report

Modelling and aggregation of loads in flexible power networks

Milanovic, J. , Matevosyan, J. , Gaikwad, A. , Borghetti, A. , Djokić, S. Ž. , Dong, Z. Y. , Halley, A. , Korunović, L. M. , Villanueva, S. M. , Ma, J. , Pourbeik, P. , Resende, F. , Sterpu, S. , Villella, F. , Yamashita, K. , Auer, O. , Karoui, K. , Kosterev, D. , Leung, S. K. , Mtolo, D. & 3 others Feb 2014 In : Electra. p. 62-69 7 p.

Research output: Contribution to journal › Article

Tuning of a damping controller for multiterminal VSC-HVDC grids using the probabilistic collocation Method

Preece, R. & Milanovic, J. V. Feb 2014 In : IEEE Transactions on Power Delivery. 29, 1, p. 318-326 8 p., 6675861

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2013.2258945

Accuracy of ANN based methodology for load composition forecasting at bulk supply buses

Xu, Y. & Milanovic, J. V. 2014 host publication. 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/pmaps.2014.6960611

Applying Process Immunity Time to Assess Annual Industrial Process Trips

Cebrian, J. C., Kagan, N. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2014.6939243

CIGRE/CIRED JWG C4.112 – Power Quality Monitoring

Bollen, M. H. J., Milanovic, J. & Čukalevski, N. 2014 In : Unknown Journal. 12

Research output: Contribution to journal › Article

CIGRE/CIRED JWG C4.112 – Power Quality Monitoring - invited paper

Bollen, M. H. J., Milanovic, J. & Čukalevski, N. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Comparison of Point Estimate and Cumulant Techniques for Efficient Estimation of Critical Oscillatory Modes

Preece, R., Huang, K. & Milanovic, J. V. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2014.6938815

Definisanje uslova za rad uređaja za grupnu regulaciju pobude i reaktivnih snaga (GRPRS) u sistemu automatskog upravljanja naponima u mreži

Arnautović, D., Dragosavac, J., Janda, Ž., Milanovic, J. & Mihajlović, L. 2014 In : Unknown Journal. 24, p. 1-14 13 p.

Research output: Contribution to journal › Article

Effectiveness of Asymmetrical Series Compensation for Mitigation of SSR in Meshed Power Networks

Adrees, A. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2014.7028835

Efficient implementation of Power Quality monitoring campaigns - Position paper of Joint WG CIGRE/CIRED C4.112

Meyer, J., Ribeiro, P., Paulillo, G., Zavoda, F., Gordon, J. M. R. & Milanovic, J. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Estimation of percentage of controllable load in total demand at bulk supply point

Xu, Y. & Milanovic, J. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Evaluation of Classification Methods for On-line Identification of Power System Dynamic Signature

Guo, T., He, J., Li, Z. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PSCC.2014.7038430

Grid inertia supporting by energy storage inverters

Antic, R., Nikolic, A., Janda, Ž., Milanovic, J. & Milosavljević, Z. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Guidelines for monitoring power quality in contemporary and future power networks – results from CIGRE/Cired JWG C4.112

Milanovic, J., Bollen, M. H. J. & Cukalevski, N. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

## Guidelines for Power Quality Monitoring – Results from CIGRE/CIRED JWG C4.112

Kilter, J., Meyer, J., Elphick, S. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers , p. 703-707 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ICHQP.2014.6842924

Guidelines for power quality monitoring– measurement locations, processing and presentation of data

Milanovic, J. 2014 In : Electra. 227, p. 42-47 5 p.

Research output: Contribution to journal › Article

## Identification of Power System Dynamic Signature Using Hierarchical Clustering

Guo, T. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2014.6938816

## Impact of the Application of Process Immunity Time on Distribution Expansion Planning

Cebrian, J., Milanovic, J. & Kagan, N. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Integration of Coordinated Q–V Controller for Multi Machine Power Plant into Secondary Voltage Control



Arnautović, D., Dragosavac, J., Janda, Z., Milanovic, J. & Mihailović, L. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

International industry practice on power-quality monitoring

Milanovic, J. V., Meyer, J., Ball, R. F., Howe, W., Preece, R., Bollen, M. H. J., Elphick, S. & Cukalevski, N. 2014 In : IEEE Transactions on Power Delivery. 29, 2, p. 934-941 7 p., 6631511

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2013.2283143

Intra-Plant Reactive Power–Voltage Control: Practices, Drawbacks and Challenges

Dragosavac, J., Awadallah, S. K. E., Janda, Ž., Milanovic, J. & Arnautović, D. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2014.6939176

Investigation of maximum likelihood percentile estimates for transformer asset management

Patel, B., Wang, Z. D., Milanovic, J. V. & Jarman, P. 2014 Probabilistic Methods Applied to Power Systems (PMAPS), 2014 International Conference on. p. 1-6 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PMAPS.2014.6960655

Methodology for evaluation of risk of subsynchronous resonance in meshed compensated networks

Adrees, A. & Milanovic, J. 2014 In : I E E Transactions on Power Systems. 29, 2, p. 815-823 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2013.2288418

Modelling transformer short-circuit reliability using multi-stress accelerated test data

Patel, B., Wang, Z. D., Milanovic, J. V. & Jarman, P. 2014 Probabilistic Methods Applied to Power Systems (PMAPS), 2014 International Conference on. p. 1-6 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PMAPS.2014.6960670

On accuracy of demand forecasting and its extension to demand composition forecasting using artificial intelligence based methods

Xu, Y. & Milanovic, J. V. 2014 host publication. 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2014.7028865

Practical implementation of coordinated q-v control in a multi machine power plant

Dragosavac, J., Janda, Ž., Milanovic, J., Mihajlović, L. & Radojičić, B. 2014 In : I E E Transactions on Power Systems. 29, 6, p. 2883-2891 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2014.2318794

Probabilistic assessment of the impact of distributed generation and non-linear load on harmonic propagation in power networks

Abdelrahman, S., Liao, H., Yu, J. & Milanovic, J. 2014

Research output: Contribution to conference › Paper

Probabilistic assessment of the impact of ditributed generation and non-linear load on harmonic propagation in power networks

Abdelrahman, S., Liao, H. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PSCC.2014.7038371

Probabilistic Estimation of Voltage Sags Using Erroneous Measurement Information

Woolley, N. C., Avendano-Mora, M., Woolley, A. P., Preece, R. & Milanovic, J. 2014 In : Electric Power Systems Research. 106, 1, p. 142-150 8 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2013.07.021

Probabilistic Framework for Assessing the Accuracy of Data Mining Tool for On-line Prediction of Transient Stability

Guo, T. & Milanovic, J. 2014 In : I E E E Transactions on Power Systems. 29, 1, p. 377-385 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2013.2281118

Probabilistic indicators for assessing age- and loading-based criticality of transformers to cascading failure events

Awadallah, S. K. E., Milanovic, J., Jarman, P. N. & Wang, Z. A. 2014 In : IEEE Transactions on Power Systems. 29, 5, p. 2558-2566 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2014.2308581

Probabilistic small-disturbance stability assessment of uncertain power systems using efficient estimation methods

Preece, R., Huang, K. & Milanović, J. V. 2014 In : IEEE Transactions on Power Systems. 29, 5, p. 2509-2517 8 p., 6774476

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2014.2308577

Reliability Based Framework for Cost-Effective Replacement of Power Transmission Equipment

Awadallah, S. K. E., Milanovic, J. & Jarman, P. N. 2014 In : IEEE Transactions on Power Systems. 29, 5, p. 2549-2557 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2014.2309337

Risk-based framework for establishing and visualising Operational Constraints of Power Systems

Preece, R., Adrees, A. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PSCC.2014.7038339

The effect of temporal and spatial variation of harmonic sources on annual harmonic performance of distribution networks

Abdelrahman, S. & Milanovic, J. 2014 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2014.7028848

The Power Quality Monitoring for Transmission System in Liberalized Environment

Čukalevski, N., Milanovic, J. & Bollen, M. H. J. 2014 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

2013

Advantages and application constraints of PLC based laboratory test rig of multi-generator steam power plant for coordinated reactive power voltage controller testing

Dragosavac, J., Janda, Ž., Pavlović, J., Milanovic, J. & Arnautović, D. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Application of Dynamic Equivalence Techniques to Derive Aggregated Models of Active Distribution Network Cells and MicroGrids – Critical Overview

Resende, F. O., Matevosyan, J. & Milanovic, J. 2013 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2013.6652356

Assessing the risk of small disturbance instability in mixed AC/DC networks

Preece, R., Milanovic, J. V. & Milanović, J. V. 2013 Proceedings of IREP Symposium: Bulk Power System Dynamics and Control - IX Optimization, Security and Control of the Emerging Power Grid, IREP 2013 | Proc. IREP Symp. Bulk Power Syst. Dyn. Control - Optim., Secur. Control Emerg. Power Grid, IREP.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/IREP.2013.6629353

Assessment of generator's reactive power capability in realtime (in Serbian)

Janda, Ž., Dragosavac, J., Gajić, T., Dobričić, S., Pavlović, J., Radojičić, B., Milanovic, J., Janković, . U., Ninković, P., Arnautović, D., Mihajlović, L. & Klasnić, G. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Assessment of probability of thermal stress induced dependent failure of power transformers

Awadallah, S., Milanovic, J. & Jarman, P. N. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Challenges in Power Quality Monitoring – CIGRE WG C4.112 Perspective

Ribeiro, P., Paulillo, G., Meyer, J., Howe, W., Zavoda, F., Tenti, L., Milanovic, J., Bollen, M., Doyle, P. & Gordon, J. M. R. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Contribution of dispersed inverters to small disturbance stability of power system

Antic, R., Nikolic, A., Janda, Ž. & Milanovic, J. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Damping of inter-area oscillations in mixed AC/DC networks using WAMS based supplementary controller

Preece, R., Milanović, J. V., Almutairi, A. M. & Marjanovic, O. 2013 In : IEEE Transactions on Power Systems. 28, 2, p. 1160-1169 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2207745

Design, implementation and on-site performance of coordinated intra-plant reactive power-voltage controller

Dragosavac, J., Janda, Z., Arnautovic, D., Milanovic, J. V., Mihajlovic, L. & Radojicic, B. 2013 2013 IEEE Grenoble Conference PowerTech, POWERTECH 2013|IEEE Grenoble Conf. PowerTech, POWERTECH. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2013.6652163

Design, implementation and performance of coordinated intra-plant reactive power-voltage controller (in Serbian)

Dragosavac, J., Janda, Ž., Gajić, T., Dobričić, S., Pavlović, J., Radojičić, B., Milanovic, J., Ninković, P., Arnautović, D., Mihajlović, L. & Klasnić, G. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Developmnet of probabilistic daily demand curves for different categories of customers

Milanovic, J. V. & Xu, Y. 2013 host publication. 4 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1049/cp.2013.0722

Foreword for the Special Section on Analysis and Simulation of Very Large Power Systems

Milanovic, J., Gomez-Exposito, A. & Abur, A. 2013 In : I E E E Transactions on Power Systems. 28, 4, p. 4885-4887 2 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2013.2282839

Framework for estimation of daily variation of dynamic response of aggregate load

Xu, Y. & Milanović, J. V. 2013 2013 4th IEEE/PES Innovative Smart Grid Technologies Europe, ISGT Europe 2013 | IEEE/PES Innovative Smart Grid Technol. Europe, ISGT Europe. Institute of Electrical and Electronics Engineers , 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2013.6695241



Generic model of active distribution network for large power system stability studies

Mat Zali, S. & Milanovic, J. V. 2013 In : IEEE Transactions on Power Systems. 28, 3, p. 3126-3133 7 p., 6403906

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2233223

Generic Model of Coastal Distribution Network for Power System Studies

Strugar, V., Katić, V. & Milanovic, J. 2013 In : PRZEGLĄD ELEKTROTECHNICZNY. 89, 1a, p. 149-155

Research output: Contribution to journal › Article

Identifying generators at risk of SSR in meshed compensated AC/DC power networks

Milanovic, J. V. & Adrees, A. 2013 In : IEEE Transactions on Power Systems. 28, 4, p. 4438-4447 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2013.2262717

Index for ranking generators based on risk of subsynchronous resonance in the network

Adrees, A. & Milanovic, J. V. 2013 2013 IEEE Grenoble Conference PowerTech, POWERTECH 2013|IEEE Grenoble Conf. PowerTech, POWERTECH. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2013.6652165

International industry practice on power system load modeling

Milanović, J. V., Yamashita, K., Martínez Villanueva, S., Djokić, S. Ž. & Korunović, L. M. 2013 In : IEEE Transactions on Power Systems. 28, 3, p. 3038-3046 8 p., 6399552

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2231969

On Adequacy of Superposition Method for Probabilistic Assessment of Unbalance in Distribution Network

Liu, Z. & Milanovic, J. 2013 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2013.6652144

On-line prediction of transient stability using decision tree method - Sensitivity of accuracy of prediction to different uncertainties

Guo, T. & Milanovic, J. 2013 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2013.6652106

Probabilistic estimation of voltage unbalance in distribution networks with asymmetrical loads

Liu, Z. & Milanović, J. V. 2013 IET Conference Publications|IET Conf Publ. Institution of Engineering and Technology , Vol. 2013

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1049/cp.2013.0784

Probabilistic evaluation of damping controller in networks with multiple VSC-HVDC lines

Preece, R., Milanović, J. V., Almutairi, A. M. & Marjanovic, O. 2013 In : IEEE Transactions on Power Systems. 28, 1, p. 367-376 9 p., 6212495

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2197641

Quantification of Aleatory and Epistemi Uncertainty in Bulk Power System Reliability Evaluation

Awadallah, S. & Milanovic, J. 2013 host publication. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2013.6652164

Risk-based framework for assessment of operational constraints for power systems focusing on small-disturbance stability and sub-synchronous resonance

Preece, R., Adrees, A. & Milanovic, J. V. 2013 2013 4th IEEE/PES Innovative Smart Grid Technologies Europe, ISGT Europe 2013 | IEEE/PES Innovative Smart Grid Technol. Europe, ISGT Europe. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2013.6695237

Robustness of commissioned coordinated Q-V controller for multimachine power plant

Dragosavac, J., Janda, Ž., Milanović, J. V. & Arnautović, D. 2013 In : IEEE Transactions on Power Systems. 28, 2, p. 1415-1424 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2227512

Self-disconnection and Self-recovery of Loads Due to Voltage Sags and Short Interruptions

Yamashita, K., Djokić, S. Ž., Villanueva, F. & Milanovic, J. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Study of subsynchronous resonance in meshed compensated AC/DC network

Adrees, A. & Milanovic, J. V. 2013 Proceedings of IREP Symposium: Bulk Power System Dynamics and Control - IX Optimization, Security and Control of the Emerging Power Grid, IREP 2013|Proc. IREP Symp. Bulk Power Syst. Dyn. Control - Optim., Secur. Control Emerg. Power Grid, IREP. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/IREP.2013.6629357

The effect of quality and availability of measurement signals on accuracy of on-line prediction of transient stability using decision tree method

Guo, T. & Milanovic, J. V. 2013 2013 4th IEEE/PES Innovative Smart Grid Technologies Europe, ISGT Europe 2013|IEEE/PES Innovative Smart Grid Technol. Europe, ISGT Europe. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2013.6695256

The probabilistic collocation method for power-system damping and voltage collapse studies in the presence of uncertainties

Preece, R., Woolley, N. C. & Milanovic, J. V. 2013 In : IEEE Transactions on Power Systems. 28, 3, p. 2253-2262 9 p., 6399551

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2227837

The use of Prony analysis and Padé approximation for the identification of transfer functions of excitation system components

Janda, Ž., Dragosavac, J., Pavlović, J., Milanovic, J., Radojčić, B. & Arnautović, D. 2013 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Validation of equivalent dynamic model of active distribution network cell

Milanovic, J. V. & Mat Zali, S. 2013 In : IEEE Transactions on Power Systems. 28, 3, p. 2101-2110 9 p., 6389745

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2227844

Wind farm model aggregation using probabilistic clustering

Ali, M., Ilie, I. S., Milanovic, J. V. & Chicco, G. 2013 In : IEEE Transactions on Power Systems. 28, 1, p. 309-316 7 p., 6238339

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2204282

2012

Control of VSC HVDC system integrated with AC network

Shen, L., Barnes, M., Milanovic, J. V. & Preece, R. Dec 2012 IET Conference Publications| IET Conf Publ. Birmingham: Institution of Engineering and Technology , Vol. 2012, p. 1-6 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1049/cp.2012.1954

Generalized formulation of the optimal monitor placement problem for fault location

Avendaño-Mora, M. & Milanović, J. V. Dec 2012 In : Electric Power Systems Research. 93, p. 120-126 6 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2012.07.010

Probabilistic assessment of wind farm annual energy production

Ali, M., Matevosyan, J. & Milanović, J. V. Aug 2012 In : Electric Power Systems Research. 89, p. 70-79 9 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2012.01.019

Monitor placement for reliable estimation of voltage sags in power networks

Avendaño-Mora, M. & Milanović, J. V. Apr 2012 In : IEEE Transactions on Power Delivery. 27, 2, p. 936-944 8 p., 6156803

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2012.2183897

Ranking the importance of synchronous generators for renewable energy integration

Alhasawi, F. B. & Milanović, J. V. Feb 2012 In : IEEE Transactions on Power Systems. 27, 1, p. 416-423 7 p., 5930336

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2011.2159250

A comparative review of transformer reliability on a individual and population scale and an assessment of reliability methodologies

Patel, B., Wang, Z. D., Milanovic, J. V. & Jarman, P. 2012 Proceedings of 2012 IEEE International Conference on Condition Monitoring and Diagnosis, CMD 2012 | Proc. IEEE Int. Conf. Cond. Monit. Diagn., CMD. p. 870-873 3 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/CMD.2012.6416289

CIGRE WG C4.065 Recommendations on Measurement Based and Component Based Load Modelling Practice

Dong, Z. Y., Borghetti, A., Yamashita, K., Gaikwad, A., Pourbeik, P. & Milanovic, J. 2012 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Contemporary and future aspects of cost effective power quality monitoring Position paper of CIGRE WG C4.112

Meyer, J., Kilter, J., Howe, B., Zavoda, F., Tenti, L., Gordon, J. M. R. & Milanovic, J. V. 2012 PQ 2012: 8th International Conference - 2012 Electric Power Quality and Supply Reliability, Conference Proceedings|PQ: Int. Conf. - Electr. Power Qual. Supply Reliab., Conf. Proc.. p. 83-88 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PQ.2012.6256208

Coordinated Q-V Controller for Multi-machine Steam Power Plant: Design and Validation

Dragosavac, J., Janda, Z., Milanovic, J. & Arnautović, D. 2012 host publication. IET: Institution of Engineering and Technology , Vol. 2010

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1049/cp.2010.0887

Coordinated reactive power-voltage controller for multimachine power plant

Dragosavac, J., Janda, Ž. & Milanović, J. V. 2012 In : IEEE Transactions on Power Systems. 27, 3, p. 1540-1549 9 p., 6153414

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2184144

Current practice and future challenges for power quality monitoring - CIGRE WG C4.112 perspective



Kilter, J., Meyer, J., Howe, B., Zavoda, F., Tenti, L., Milanovic, J. V., Bollen, M., Ribeiro, P. F., Doyle, P. & Gordon, J. M. R. 2012 Proceedings of International Conference on Harmonics and Quality of Power, ICHQP|Proc. Int. Conf. Harmonics Qual. Power, ICHQP. p. 390-397 7 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ICHQP.2012.6381311

Economic Assessment of Voltage Sags Based on Optimal Monitoring Schemes

Avendano-Mora, J. M., Milanovic, J. & Madrigal-Martínez, M. 2012 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Effects of uncertainties in shaft mechanical parameters on maximum torsional torques in meshed networks with HVDC lines

Adrees, A. & Milanovic, J. V. 2012 Proceedings of the IEEE Power Engineering Society Transmission and Distribution Conference|Proc IEEE Power Eng Soc Trans Distrib Conf. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/TDC.2012.6281542

Modelling and aggregation of loads in flexible power networks - Scope and status of the work of cigre WG C4.605

Yamashita, K., Djokic, S., Matevosyan, J., Resende, F. O., Korunovic, L. M., Dong, Z. Y. & Milanovic, J. V. 2012 IFAC Proceedings Volumes (IFAC-PapersOnline)|IFAC Proc. Vol. (IFAC-PapersOnline). Vol. 8, p. 405-410 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.3182/20120902-4-FR-2032.00072

On-line estimation of available generator reactive power for network voltage support

Milanovic, J., Dragosavac, J., Janda, Ž., Milanovi, J. V., Arnautovic, D. & Radojicic, B. 2012 IET Conference Publications| IET Conf Publ. Institution of Engineering and Technology , Vol. 2012

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1049/cp.2012.2014

Overview of Existing Load Models and Their Applications

Korunović, L. M., Yamashita, K., Djokić, S. Ž., Villella, F., Milanovic, J., Gaikwad, A. & Villanueva, S. M. 2012 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Overview of Existing Methodologies for Load Model Development

Yamashita, K., Villanueva, S. M., Djokić, S. Ž., Ma, J., Gaikwad, A. & Milanovic, J. 2012 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Pegase R&D project: Advanced algorithms for state estimation and simulation of the Pan-European power system

Rapoport, S., Panciatici, P., Lopez, J. J., Merckx, C., Haut, B., Erlich, I., Leclerc, S. & Milanovic, J. 2012 44th International Conference on Large High Voltage Electric Systems 2012|Int. Conf. Large High Voltage Electr. Syst..

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Power Oscillation Damping using VSC-based Multi-terminal HVDC grids

Preece, R. & Milanović, J. V. 2012 IFAC Proceedings Volumes (IFAC-PapersOnline) | IFAC Proc. Vol. (IFAC-PapersOnline). Vol. 8, p. 20-25 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.3182/20120902-4-FR-2032.00006

Probabilistic Identification of Power System Reliability Map

Awadallah, S., Milanovic, J. & Wang, Z. 2012 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Processing of load parameters based on existing load models

Korunovic, L. M., Sterpu, S., Djokic, S., Yamashita, K., Villanueva, S. M. & Milanovic, J. V. 2012 IEEE PES Innovative Smart Grid Technologies Conference Europe | IEEE PES Innovative. Smart Grid Technol. Conf. Europe. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2012.6465741

Statistical estimation of the source and level of voltage unbalance in distribution networks

Woolley, N. C. & Milanović, J. V. 2012 In : IEEE Transactions on Power Delivery. 27, 3, p. 1450-1460 10 p., 6208838

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2012.2195230

Techno-economic contribution of FACTS devices to the operation of power systems with high level of wind power integration

Alhasawi, F. B. & Milanović, J. V. 2012 In : IEEE Transactions on Power Systems. 27, 3, p. 1414-1421 7 p., 6165405

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2012.2186594

The Effects of Uncertainty in Mechanical Parameters on SSR in Meshed Power Networks with Different HVDC Technologies

Adrees, A. & Milanovic, J. 2012 12th International Conference on Probabilistic Methods Applied to Power Systems (PMAPS2012) - Best Student Paper Award.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

The Probabilistic Collocation Method for dealing with uncertainties in power system small disturbance studies

Preece, R. & Milanovic, J. V. 2012 IEEE Power and Energy Society General Meeting | IEEE Power Energy Soc. Gen. Meet.. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PESGM.2012.6344707

2011

PLC-based model of reactive power flow in steam power plant for pre-commissioning validation testing of coordinated Q-V controller

Dragosavac, J., Janda, Ž. & Milanović, J. V. Nov 2011 In : IEEE Transactions on Power Systems. 26, 4, p. 2256-2263 7 p., 5746556

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2011.2127498

Comparison of wind farm aggregate models for transient stability studies

Milanovic, J., Ali, M., Milanović, J. V., Ilie, I-S. & Chicco, G. Aug 2011 CD Rom of the 17th Power Systems Computation Conference (PSCC'11), (paper 157).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Development of equivalent dynamic model of distribution network using clustering procedure

Milanovic, J., Zali, S. M., Wooley, N. C. & Milanović, J. V. Aug 2011 host publication. CD Rom of the 17th Power Systems Computation Conference (PSCC'11), (paper 98)

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Probabilistic assessment of wind farm energy yield

Milanovic, J., Ali, M., Matevosyan, J. & Milanović, J. V. Aug 2011 CD Rom of the the 17th Power Systems Computation Conference (PSCC'11), (paper 186).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

CIGRE/CIRED JWG C4.107 : “Economic Framework for Power Quality”

Milanovic, J. , Iglesias (Convenor), J. G. , Arlt, D. , Bartak, G. , Bollen, M. , Byrne, D. , Chapman, D. , Delahunty, A. , Eyrolles, P. , Fumagalli, E. , Hager, M. , Hanzelka, Z. , Howe, B. , Jahn, R. ,

McEachern, A. , McMichael, I. , Milanović, J. V. , Pazos, P. , Targosz, R. , Tremblay, M. & 4 others Jun 2011 No publisher name.

Research output: Book/Report › Commissioned report

#### Economic Framework for Power Quality

Iglesias, J. G. , Arlt, D. , Bartak, G. , Bollen, M. , Byrne, D. , Chapman, D. , Delahunty, A. , Eyrolles, P. , Fumagalli, E. , Hager, M. , Hanzelka, Z. , Howe, B. , Jahn, R. , McEachern, A. , McMichael, I. , Milanovic, J. , Milanović, J. V. , Pazos, P. , Targosz, R. , Tremblay, M. & 4 others Jun 2011 In : Electra. 256

Research output: Contribution to journal › Article

#### Facilitating the integration of wind turbines into power networks while maintaining frequency stability

Milanovic, J., Whitey, S. & Milanović, J. V. Jun 2011 CD Rom of the 21st CIGRE 2011, (paper 0807).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

#### Methodology for Flexible, Cost-Effective Monitoring of Voltage Sags

Milanovic, J., Avendano-Mora, J. M. & Milanović, J. V. Jun 2011 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

#### Probabilistic assessment of wind farm energy yield considering wake turbulence and variable turbine availabilities

Milanovic, J., Ali, M. & Milanović, J. V. Jun 2011 CD Rom of the 21st CIGRE 2011, (paper 0528).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Estimation of cost of downtime of industrial process due to voltage sags

Vegunta, S. C. & Milanović, J. V. Apr 2011 In : IEEE Transactions on Power Delivery. 26, 2, p. 576-587 11 p., 5371823

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2009.2035366

Risk-based assessment of financial losses due to voltage sag

Chan, J. Y., Milanović, J. V. & Delahunty, A. Apr 2011 In : IEEE Transactions on Power Delivery. 26, 2, p. 492-500 8 p., 5738431

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2009.2037426

An immune system inspired clustering and classification method to detect critical areas in electrical power networks

Woolley, N. C. & Milanović, J. V. Mar 2011 In : Natural Computing. 10, 1, p. 305-333 28 p.

Research output: Contribution to journal › Article

DOI: 10.1007/s11047-010-9204-2

Flexible AC Transmission Systems

Milanovic, J., Milanović, J. V., Papic, I., Alabdujabbar, A. A., Zhang, Y., Wilamowski, B. (ed.) & Irwin, J. D. (ed.) Feb 2011 The Industrial Electronics Handbook: Power Electronics and Motor Drives. 2 ed. Taylor & Francis Group, CRC Press, Vol. 4, p. 37.1-37.29 29 p.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Validated models for gas turbines based on thermodynamic relationships

Milanovic, J., Yee, S. K., Milanović, J. V. & Hughes, F. M. Feb 2011 In : IEEE Transactions on Power Systems. 26, 1, p. 270-281 11 p., 5462974

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2010.2046428

Aggregated models of wind-based generation and active distribution network cells for power system studies - Literature overview

Matevosyan, J., Martinez Villanueva, S., Djokic, S. Z., Acosta, J. L., Mat Zali, S., Resende, F. O. & Milanovic, J. V. 2011 2011 IEEE PES Trondheim PowerTech: The Power of Technology for a Sustainable Society, POWERTECH 2011|IEEE PES Trondheim PowerTech: Power Technol. Sustainable Soc., POWERTECH.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2011.6019296

Damping of electromechanical oscillations by VSC-HVDC active power modulation with supplementary wams based modal LQG controller

Preece, R., Almutairi, A. M., Marjanovic, O. & Milanović, J. V. 2011 IEEE Power and Energy Society General Meeting|IEEE Power Energy Soc. Gen. Meet.. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution



DOI: 10.1109/PES.2011.6039046

Effectiveness of a supplementary MLQG power oscillation damping controller installed at an HVDC line within a meshed network

Preece, R., Almutairi, A. M., Marjanovic, O. & Milanovic, J. V. 2011 CIGRE 2011 Bologna Symposium - The Electric Power System of the Future: Integrating Supergrids and Microgrids|CIGRE Bologna Symp. - Electr. Power Syst. Future: Integr. Supergrids Microgrids.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Generalized Formulation for Optimal Meter Placement for Fault Location

Avendano-Mora, J. M. & Milanovic, J. 2011 CD Rom of the IEEE on Smart Measurements for Future Grids (SMFG 2011).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Initial results of international survey on industrial practice on power system load modelling conducted by CIGRE WG C4.605

Yamashita, K., Martínez Villanueva, S. & Milanović, J. V. 2011 CIGRE 2011 Bologna Symposium - The Electric Power System of the Future: Integrating Supergrids and Microgrids|CIGRE Bologna Symp. - Electr. Power Syst. Future: Integr. Supergrids Microgrids.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Integration of cost effective bus profiling in distribution networks

Woolley, N. C., Milanović, J. V. & Avendaño-Mora, J. M. 2011 IFAC Proceedings Volumes (IFAC-PapersOnline)|IFAC Proc. Vol. (IFAC-PapersOnline). Vol. 18, p. 12219-12224 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.3182/20110828-6-IT-1002.01088

Mathematical model of steam power plant for voltage and reactive power control

Awadallah, S., Dragosavac, J., Janda, Ž. & Milanović, J. V. 2011 2011 IEEE PES Trondheim PowerTech: The Power of Technology for a Sustainable Society, POWERTECH 2011|IEEE PES Trondheim PowerTech: Power Technol. Sustainable Soc., POWERTECH.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2011.6019433

Probabilistic fault location using erroneous measurement devices

Woolley, N. C., Avendaño-Mora, M., Milanovic, J. V. & Woolley, A. P. 2011 SMFG 2011 - IEEE International Conference on Smart Measurements for Grids, Proceedings|SMFG - IEEE Int. Conf. Smart Meas. Grids, Proc.. p. 101-106 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/SMFG.2011.6125781

Software tool for automated design and cost benefit analysis of offshore grid

Nedić, D. P., Ali, M. & Milanović, J. V. 2011 IEEE PES Innovative Smart Grid Technologies Conference Europe|IEEE PES Innovative. Smart Grid Technol. Conf. Europe.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2011.6162744

Subsynchronous resonance in meshed networks with HVDC lines

Adrees, A. & Milanovic, J. V. 2011 IEEE PES Innovative Smart Grid Technologies Conference Europe|IEEE PES Innovative. Smart Grid Technol. Conf. Europe.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ISGTEurope.2011.6162756

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Assessment of techno-economic contribution of FACTS devices to power system operation

Alabduljabbar, A. A. & Milanović, J. V. Oct 2010 In : Electric Power Systems Research. 80, 10, p. 1247-1255 8 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2010.04.008

Global voltage sag mitigation with FACTS-based devices

Zhang, Y. & Milanović, J. V. Oct 2010 In : IEEE Transactions on Power Delivery. 25, 4, p. 2842-2850 8 p., 5560765

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2010.2052396

Modeling of FACTS devices for voltage sag mitigation studies in large power systems

Milanović, J. V. & Zhang, Y. Oct 2010 In : IEEE Transactions on Power Delivery. 25, 4, p. 3044-3052 8 p., 5565540

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2010.2052395

Damping of system oscillatory modes by a phase compensated gas turbine governor

Yee, S. K., Milanović, J. V. & Hughes, F. M. Jun 2010 In : Electric Power Systems Research. 80, 6, p. 667-674 7 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2009.10.013

CIGRE/CIRED/UIE JWG C4.110: "Voltage Dip Immunity of Equipment and Installations"

Bollen, M. , Stephens, M. , Djokić, S. , Stockman, K. , Milanovic, J. , Milanović, J. V. , Gordón, J. R. , Neumann, R. , Ethier, G. , Corcoles, F. , Ferguson, A. , Goossens, P. , Ligot, P. , Leiria, A. L. , Marteyn, P. , McEachern, A. , Mentzer, J. , McMichael, I. , Minnaar, U. , Reusel, K. V. & 2 others Apr 2010 No publisher name.

Research output: Book/Report › Commissioned report

Global minimization of financial losses due to voltage sags with FACTS based devices

Milanovic, J. V. & Zhang, Y. Jan 2010 In : IEEE Transactions on Power Delivery. 25, 1, p. 298-306 8 p., 5352295

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2009.2035419

Modelling of V-Hz and vector controlled ASDs in PSCAD/EMTDC for voltage sag studies

Vegunta, S. C., Milanović, J. V. & Djokić, S. Ž. Jan 2010 In : Electric Power Systems Research. 80, 1, p. 1-8 7 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2009.07.015

Comparison of dynamic performance of meshed networks with different types of HVDC lines

Preece, R. & Milanović, J. V. 2010 IET Conference Publications| IET Conf Publ. Vol. 2010

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1049/cp.2010.1001

Voltage dip immunity aspects of powerelectronics equipment - Recommendations from CIGRE/CIREN/UIE JWG C4.110

Bollen, M. H. J., Cundeva, S., Gordon, J. M. R., Djokic, S. Z., Stockman, K., Milanovic, J. V., Neumann, R. & Ethier, G. 2010 Proceedings of EPE-PEMC 2010 - 14th International Power Electronics and Motion Control Conference|Proc. EPE-PEMC - Int. Power Electron. Motion Control Conf.. p. T1517-T1524

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/EPEPEMC.2010.5606512

Voltage-dip immunity of equipment and installations – status and need for further work

Milanovic, J., Bollen, M. H. J., Gordon, J. R., Djokić, S. Ž., Stockman, K., Milanović, J. V., Neumann, R., Ethier, G. & Zavoda, F. 2010 CD Rom of the China International Conference on Electricity Distribution (CICED'2010).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Phase compensated gas turbine governor for damping oscillatory modes

Yee, S. K., Milanović, J. V. & Hughes, F. M. Aug 2009 In : Electric Power Systems Research. 79, 8, p. 1192-1199 7 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2009.02.013

CIGRE WG C4.102: "Voltage Dip Evaluation and Prediction Tools"

Milanovic, J., Martinez-Velasco (Convenor), J. A., Bollen, M., Milanović, J. V., Olguin, G., Leborgne, R. C., Abi-Samra, N., Hatziargyriou, N., Schilder, M., Aung, M. T. & Djokić, S. Ž. Feb 2009 CIGRE.

Research output: Book/Report › Commissioned report

Voltage Dip evaluation and prediction tools

Martínez-Velasco, J. A., Abi-Samra, N., Aung, M. T., Bollen, M., Djokic, S. Z., Hatziargyriou, N., Leborgne, R. C., Milanović, J. V., Milanovic, J., Olguin, G. & Schilder, M. Feb 2009 In : Electra. 209, p. 67-76 5 p.

Research output: Contribution to journal › Article

The impact of distributed synchronous generators on quality of electricity supply and transient stability of real distribution network

Calderaro, V., Milanovic, J. V., Kayikci, M. & Piccolo, A. Jan 2009 In : Electric Power Systems Research. 79, 1, p. 134-143 9 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2008.05.022

Advanced characterization of voltage sags and assessment of equipment sensitivity

Gnativ, R. M. & Milanović, J. V. 2009 In : International Journal of Power and Energy Systems. 29, 1, p. 19-27 8 p.

Research output: Contribution to journal › Article

DOI: 10.2316/Journal.203.2009.1.203-3858

Dynamic contribution of DFIG-based wind plants to system frequency disturbances

Kayikçi, M. & Milanović, J. V. 2009 In : IEEE Transactions on Power Systems. 24, 2, p. 859-867 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2009.2016062

Generic failure-risk assessment of industrial processes due to voltage sags

Chan, J. Y., Milanović, J. V. & Delahunty, A. 2009 In : IEEE Transactions on Power Delivery. 24, 4, p. 2405-2414 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2009.2014493

2008

Assessing transient response of DFIG-based wind plants - The influence of model simplifications and parameters

Kayikçi, M. & Milanović, J. V. May 2008 In : IEEE Transactions on Power Systems. 23, 2, p. 545-554 9 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2008.919310

The influence of induction motors on voltage sag propagation - Part I: Accounting for the change in sag characteristics

Milanovic, J. V., Aung, M. T. & Vegunta, S. C. Apr 2008 In : IEEE Transactions on Power Delivery. 23, 2, p. 1063-1071 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2007.915846

The Influence of Induction Motors on Voltage Sag Propagation-Part II: Accounting for the Change in Sag Performance at LV Buses

Milanović, J. V., Vegunta, S. C. & Aung, M. T. Apr 2008 In : IEEE Transactions on Power Delivery. 23, 2, p. 1072-1078 6 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2007.915851

Dynamic load modelling based on measurements in medium voltage distribution network

Stojanović, D. P., Korunović, L. M. & Milanović, J. V. Feb 2008 In : Electric Power Systems Research. 78, 2, p. 228-238 10 p.

Research output: Contribution to journal › Article

DOI: 10.1016/j.epsr.2007.02.003

Overview and comparative analysis of gas turbine models for system stability studies



Yee, S. K., Milanović, J. V. & Hughes, F. M. Feb 2008 In : IEEE Transactions on Power Systems. 23, 1, p. 108-118 10 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRS.2007.907384

Fuzzy logic controller for decentralized stabilization of multimachine power systems

Yee, S. K. & Milanović, J. V. 2008 In : IEEE Transactions on Fuzzy Systems. 16, 4, p. 971-981 10 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TFUZZ.2008.917296

Identification of static load characteristics based on measurements in medium-voltage distribution network

Korunović, L. M., Stojanović, D. P. & Milanović, J. V. 2008 In : IET Generation, Transmission and Distribution. 2, 2, p. 227-234 7 p.

Research output: Contribution to journal › Article

DOI: 10.1049/iet-gtd:20070091

Power electronics in smart electrical energy networks

Milanovic, J., Strzelecki, R. & Benysek, G. 2008 Power Systems|Power Systems. Springer , Vol. 34, 42 p.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

DOI: 10.1007/978-1-84800-318-7

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Minimization of voltage sag costs by optimal reconfiguration of distribution network Using genetic algorithms

Bahadoorsingh, S., Milanović, J. V., Zhang, Y., Gupta, C. P. & Dragovic, J. Oct 2007 In : IEEE Transactions on Power Delivery. 22, 4, p. 2271-2278 7 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2007.899524

Reactive power control strategies for DFIG-based plants

Kayikçi, M. & Milanović, J. V. Jun 2007 In : IEEE Transactions on Energy Conversion. 22, 2, p. 389-396 7 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TEC.2006.874215

Establishing harmonic distortion level of distribution network based on stochastic aggregate harmonic load models

Au, M. T. & Milanović, J. V. Apr 2007 In : IEEE Transactions on Power Delivery. 22, 2, p. 1086-1092 6 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2007.893193

Development of stochastic aggregate harmonic load model based on field measurements

Au, M. T. & Milanović, J. V. Jan 2007 In : IEEE Transactions on Power Delivery. 22, 1, p. 323-330 7 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2006.881455

Planning approaches for the strategic placement of passive harmonic filters in radial distribution networks

Au, M. T. & Milanović, J. V. Jan 2007 In : IEEE Transactions on Power Delivery. 22, 1, p. 347-353 6 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2006.881453

Advanced voltage sag characterisation II: Point on wave

Djokić, S. Ž., Milanović, J. V. & Rowland, S. M. 2007 In : IET Generation, Transmission and Distribution. 1, 1, p. 146-154 8 p.

Research output: Contribution to journal › Article

DOI: 10.1049/iet-gtd:2005043

CIGRE/CIRED/UIE JWG C4.110, Voltage dip immunity of equipment in installations

Milanovic, J., Bollen, M., Stephens, M., Stockman, K., Djokić, S., McEachern, A. & Gordón, J. R. 2007 In : 2007 9th International Conference on Electrical Power Quality and Utilisation, EPQU. 4424214

Research output: Contribution to journal › Article

DOI: 10.1109/EPQU.2007.4424214

Influence of distributed wind generation and load composition on voltage sags

Milanović, J. V., Ali, H. & Aung, M. T. 2007 In : IET Generation, Transmission and Distribution. 1, 1, p. 13-22 9 p.

Research output: Contribution to journal › Article

DOI: 10.1049/iet-gtd:20050111

Power quality and compatibility levels: A general approach

Djokić, S. Ž. & Milanović, J. V. 2007 In : IEEE Transactions on Power Delivery. 22, 3, p. 1857-1862 5 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2007.899270

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Advanced voltage sag characterisation. Part I: Phase shift

Djokić, S. Ž. & Milanović, J. V. Jul 2006 In : IEE Proceedings: Generation, Transmission and Distribution. 153, 4, p. 423-430 7 p.

Research output: Contribution to journal › Article

DOI: 10.1049/ip-gtd:20050350

Probabilistic assessment of equipment trips due to voltage sags

Gupta, C. P. & Milanović, J. V. Apr 2006 In : IEEE Transactions on Power Delivery. 21, 2, p. 711-718 7 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2005.855447

Probabilistic assessment of financial losses due to interruptions and voltage sags - Part I: The methodology

Milanović, J. V. & Gupta, C. P. Apr 2006 In : IEEE Transactions on Power Delivery. 21, 2, p. 918-924 6 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2006.870988

Probabilistic assessment of financial losses due to interruptions and voltage sags - Part II: Practical implementation

Milanović, J. V. & Gupta, C. P. Apr 2006 In : IEEE Transactions on Power Delivery. 21, 2, p. 925-932 7 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2006.870987

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Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2005.860419

Stochastic prediction of voltage sags by considering the probability of the failure of the protection system

Aung, M. T. & Milanović, J. V. Jan 2006 In : IEEE Transactions on Power Delivery. 21, 1, p. 322-329 7 p.

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DOI: 10.1109/TPWRD.2005.852385

The influence of transformer winding connections on the propagation of voltage sags

Aung, M. T. & Milanović, J. V. Jan 2006 In : IEEE Transactions on Power Delivery. 21, 1, p. 262-269 7 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2005.855446

Nonlinear time-response optimisation method for tuning power system stabilisers

Yee, S. K. & Milanović, J. V. 2006 In : IEE Proceedings: Generation, Transmission and Distribution. 153, 3, p. 269-275 6 p.

Research output: Contribution to journal › Article

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Power Quality Standards: Shortfalls, Gaps and Ambiguities

Milanovic, J., Djokić, S. Ž., Milanović, J. V. & Chapman, D. 2006 In : Power quality application guide, Section 5.4.1, Leonardo Power Quality Initiative.

Research output: Contribution to journal › Article

2005

Propagation and single-tuned filter based mitigation of harmonics in distribution networks

Milanovic, J., Dragović, J., Milanović, J. V., Katić, V. A. & Au, M. T. Dec 2005 In : Unknown Journal. 9, 2, p. 60-65 6 p.

Research output: Contribution to journal › Article

Contribution of DFIG based wind plants to power quality and stability of local network

Milanovic, J., Kayikci, M. & Milanović, J. V. Nov 2005 Paper T7-1.4.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Propagation and single-tuned filter based mitigation of harmonics in distribution networks

Milanovic, J., Dragović, J., Milanović, J. V., Katić, V. A. & Au, M. T. Nov 2005 Paper T6-1.1.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

The influence of distributed generation and power conditioning equipment on distribution network performance

Milanovic, J., Djokić, S. Ž., Milanović, J. V. & Kayikci, M. Nov 2005 Paper T6-1.5.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

A new method for classification and presentation of voltage reduction events

Djokić, S. Ž., Milanović, J. V., Chapman, D. J., McGranaghan, M. F. & Kirschen, D. S. Oct 2005 In : IEEE Transactions on Power Delivery. 20, 4, p. 2576-2584 8 p.

Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2005.852322

Assessment of the quality of supply in networks with distributed generators based on measurements and computer simulations - invited paper

Djokić, S. Ž. & Milanovic, J. Oct 2005 host publication. p. 4.2/1-4.2/10

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Establishing An Aggregate Harmonic Load Model at Low Voltage Bus Based on Harmonic Field Measurements

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Research output: Contribution to journal › Article

DOI: 10.1109/TPWRD.2004.833880

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Gnativ, R. M. & Milanovic, J. V. Jan 2005 In : European Transactions on Electrical Power. 15, 1, p. 77-93 16 p.

Research output: Contribution to journal › Article



DOI: 10.1002/etep.37

Sensitivity of AC adjustable speed drives to voltage sags and short interruptions

Djokić, S. Ž., Stockman, K., Milanović, J. V., Desmet, J. J. M. & Belmans, R. Jan 2005 In : IEEE Transactions on Power Delivery. 20, 1, p. 494-505 11 p.

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Sensitivity of personal computers to voltage sags and short interruptions

Djokić, S. Ž., Desmet, J. J. M., Vanalme, G., Milanović, J. V. & Stockman, K. Jan 2005 In : IEEE Transactions on Power Delivery. 20, 1, p. 375-383 8 p.

Research output: Contribution to journal › Article

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Research output: Contribution to journal › Article

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Analytical assessment of the effects of voltage sags on induction motor dynamic responses

Aung, M. T. & Milanović, J. V. 2005 2005 IEEE Russia Power Tech, PowerTech|IEEE Russ. Power Tech, PowerTech. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2005.4524363

Comparison of the fuzzy logic and "classical" methods for robust tuning of multiple PSSs

Yee, S. K. & Milanović, J. V. 2005 2005 IEEE Power Engineering Society General Meeting|Power Eng. Soc. Gen. Meet.. Vol. 2, p. 1375-1380 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Contributions of enhanced generator excitation control to power system stability

Benarouche, A., Milanović, J. V. & Hughes, F. M. 2005 2005 IEEE Russia Power Tech, PowerTech|IEEE Russ. Power Tech, PowerTech. Institute of Electrical and Electronics Engineers

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2005.4524402

Costs of voltage sags: Comprehensive assessment procedure

Gupta, C. P. & Milanović, J. V. 2005 2005 IEEE Russia Power Tech, PowerTech|IEEE Russ. Power Tech, PowerTech. Institute of Electrical and Electronics Engineers

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DFIG modelling and the relevance of model simplification

Kayikci, M. & Milanovic, J. V. 2005 IEE Conference Publication|IEE Conf Publ. Institution of Engineering and Technology , Vol. 4, p. 373-377 4 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/PTC.2005.4524449

Sensitivity of electrical equipment to voltage sags and short interruptions: recommendations for testing

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Propagation of asymmetrical sags and the influence of boundary crossing lines on voltage sag prediction

Aung, M. T., Milanović, J. V. & Gupta, C. P. Oct 2004 In : IEEE Transactions on Power Delivery. 19, 4, p. 1819-1827 8 p.

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DOI: 10.1109/TPWRD.2004.824396

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Milanović, J. V. & Duque, A. C. S. Feb 2004 In : IEEE Transactions on Power Systems. 19, 1, p. 410-417 7 p.

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Automated comprehensive assessment and visualization of voltage sag performance

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DOI: 10.1109/ICHQP.2004.1409352

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DOI: 10.1109/PES.2004.1373176

The influence of process equipment composition on financial losses due to voltage sags

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Influence of Voltage Sags on Personal Computers and PWM Drives

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Milanovic, J., Aung, M. T., Milanović, J. V. & Simmons, P. A. Nov 2003 Paper T6-1.5.

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Power quality: state of the art and future trends - invited paper

Milanovic, J. & Milanović, J. V. Nov 2003 Paper IP3-1.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Voltage-tolerance Curves of PWM Drives: Comparison of Simulation and Measurement Results

Djokić, S. Ž., Milanovic, J., Stockman, K. & Belmans, R. Nov 2003 Paper T6-1.3.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Equipment sensitivity to disturbances in voltage supply- invited paper

Milanovic, J., Milanović, J. V. & Djokić, S. Ž. Oct 2003 host publication. p. 3.7/1-3.7/14

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Assessment of sensitivity of three-phase motor drives to asymmetrical voltage disturbances

Djokić, S. Ž., Milanovic, J., Stockman, K. & Desmet, J. J. M. Sep 2003 host publication. p. 781-786  
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Road map for tuning power system controllers

Milanovic, J., Milanović, J. V. & Yee, S. K. Sep 2003 host publication. p. 767-774 8 p.

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Strategic placement of harmonic filters in distribution networks

Milanovic, J. & Yee, S. K. Sep 2003 host publication. p. 787-793 7 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

New digital multispeed method for indirect measurement of transient electrical and shaft torques

Radosavljević, R. L. J. & Milanović, J. V. Feb 2003 In : Electric Power Components and Systems. 31, 2, p. 189-209 20 p.

Research output: Contribution to journal › Article

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Influence of Voltage Sags on Personal Computers and PWM Drives

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Research output: Contribution to journal › Article

Load Modeling for Voltage Sag Studies

Martinez, J. A., Martin-Arnedo, J. & Milanovic, J. V. 2003 2003 IEEE Power Engineering Society General Meeting, Conference Proceedings|2003 IEEE Power Eng. Soc. Gen. Meet. Conf. Proc.. Institute of Electrical and Electronics Engineers , Vol. 4, p. 2508-2513 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Power quality: state of the art and future trends

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Research output: Contribution to journal › Article

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Damping of the low-frequency oscillations of the generator: Dynamic interactions and the effectiveness of the controllers

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Modelling of voltage disturbance generator in PSCAD/EMTDC

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Mokhtar, A., Li, H. & Milanovic, J. Nov 2002 host publication.

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Software for extraction of voltage sag characteristics from measured voltage disturbance waveforms

Gnativ, R. & Milanovic, J. Nov 2002 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Robust ranking of loads by using sensitivity factors and limited number of points from a hyperspace of uncertain parameters

Maslennikov, V. A., Milanović, J. V. & Ustinov, S. M. Aug 2002 In : IEEE Transactions on Power Systems. 17, 3, p. 565-570 5 p.

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Chilvers, I. & Milanovic, J. Jun 2002 host publication.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Inherent dynamic properties of interconnected power systems

Ustinov, S. M., Milanović, J. V. & Maslennikov, V. A. Jun 2002 In : International Journal of Electrical Power and Energy Systems. 24, 5, p. 371-378 7 p.

Research output: Contribution to journal › Article

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Research output: Contribution to journal › Article

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ICHQP.2002.1221512

Identification of voltage sag characteristics from the measured responses

Milanovic, J., Gnativ, R. M. & Milanović, J. V. 2002 host publication. Institute of Electrical and Electronics Engineers , Vol. 2, p. 535-540 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

DOI: 10.1109/ICHQP.2002.1221492

Improvements in power system voltage control and power transfer capabilities using advanced generator excitation control

Benarouche, A., Milanovic, J. & Hughes, F. M. 2002 host publication. p. 275-280 6 p.

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Stability of distribution networks with embedded generators and induction motors

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Sensitivity of torsional modes and torques to uncertainty in shaft mechanical parameters

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Characteristics And Presentation Of Voltage Sags In Odq Axes

Gnativ, R. & Milanovic, J. Sep 2001 host publication. p. 298-303 6 p.

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Voltage sags in distribution networks with embedded generators and induction motors

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Characteristics of voltage sags in radial networks with dynamic loads and embedded generators

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Dai, F., Milanovic, J., Jenkins, N. & Roberts, V. 2001 host publication. p. 344-349 6 p.

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Selection of auxiliary input signal and location of a SVC for damping electromechanical oscillations

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The influence of load composition on operation of autonomous wind-diesel system

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The use of relative gain array for optimal placement of PSSs

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Small-disturbance stability of saturated anisotropic synchronous machine models

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The influence of loading conditions and network topology on voltage sags

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The assessment and mitigation of voltage sags and harmonics - invited paper

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Research output: Contribution to journal › Article

DOI: 10.1016/S0378-7796(98)00047-9

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Negnevitsky, M., Milanovic, J. & Green, M. Nov 1998 host publication. Hong Kong, Vol. 1, p. 304-314 11 p.

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Improvement of communications and control by digital modulation used on power line carriers

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On robust tuning of FACTS controllers for the systems with uncertain parameters

Milanovic, J. & Milanović, J. V. Jul 1997 Vol. 3. p. 49-55 7 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Effect of load uncertainty on small disturbance stability margins in open-access power systems - invited paper

Milanovic, J., Hill, D. J. & Milanović, J. V. 1997 host publication. Institute of Electrical and Electronics Engineers , Vol. 5, p. 648-657 10 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Hiskens, I. A. & Milanović, J. V. 1997 In : IEEE Transactions on Power Systems. 12, 1, p. 255-261 6 p.

Research output: Contribution to journal › Article

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Overview, current trends and latest results in estimating the effects of load modelling on power-system damping and stability

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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On synchronous generator steady-state stability in the presence of uncertainty in local load parameters

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Research output: Contribution to journal › Article

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Research output: Contribution to journal › Article

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution



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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

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Research output: Contribution to journal › Article

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Milanovic, J. & Petrović, D. S. Sep 1990 Vol. 4. p. 163-174 12 p.

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