Prof. Thomas BALDWIN

Florida State University, USA

Selected Scholarly Contributions [Data Provided by **Scopus**]

Pan, Y., Steurer, M., Baldwin, T.L.
Ground fault location testing of a noise-pattern-based approach on an ungrounded DC systeml
(2011) IEEE Transactions on Industry Applications, 47 (2), art. no. 5674084, pp. 996-1002.

Alquthami, T.S., Ravindra, H., Faruque, M.O., Steurer, M., Baldwin, T.
Study of photovoltaic integration impact on system stability using custom model of PV arrays integrated with PSS/E
(2010) North American Power Symposium 2010, NAPS 2010, art. no. 5619589, .

Lee, D., Infante, D., Langston, J., Poroseva, S.V., Steurer, M., Baldwin, T.
Assessment of impact of modeling simplifications for a medium voltage DC shipboard power system
(2010) Collection of Technical Papers - AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, art. no. 2010-3013, .

Alquthami, T.S., Langston, J., Schoder, K., Faruque, M.O., Steurer, M., Meeker, R., Dale, S., Baldwin, T.
Projected load and generation data in support of an open access notional dynamic model of the Florida grid
(2010) IEEE PES General Meeting, PES 2010, art. no. 5590106, .

Lee, D., Infante, D., Langston, J., Poroseva, S.V., Steurer, M., Baldwin, T.
Grounding studies in a Medium Voltage DC shipboard power system with uncertain parameters
(2010) Grand Challenges in Modeling and Simulation Symposium, GCMS 2010 - Proceedings of the 2010 Summer Simulation Multiconference, SummerSim 2010, (3 BOOK), pp. 113-120.

Pan, Y., Steurer, M., Baldwin, T.L.
Ground fault location testing of a noise pattern based approach on an ungrounded DC system
(2010) Conference Record - Industrial and Commercial Power Systems Technical Conference, art. no. 5489879, .

Parise, G., Martirano, L., Mitolo, M., Baldwin, T., Panetta, S.
Grounding of distributed low-voltage Loads: The street lighting systems
(2010) Conference Record - Industrial and Commercial Power Systems Technical Conference, art. no. 5489893, .

Duque, C.A., Silveira, P.M., Baldwin, T.L., Ribeiro, P.F.
Tracking simultaneous time-varying power harmonic distortions using filter banks
(2010) Conference Record - Industrial and Commercial Power Systems Technical Conference, art. no.

5489885, .

Yourman Jr., A.M., Gilbert, G.K., Baldwin, T.
Deep foundation for difficult site conditions
(2010) Ports 2010: Building on the Past, Respecting the Future - Proceedings of the 12th Triannual International Conference, pp. 213-221.

Graham, T., Watson, N., Gordon IV, G.E., Baldwin, T., Watts, M.
Site specific challenges for cold ironing upgrades
(2010) Ports 2010: Building on the Past, Respecting the Future - Proceedings of the 12th Triannual International Conference, pp. 960-969.

Dan Allen, E., Baldwin, T.
Long Beach's middle harbor - First modern terminal proposed under new environmental rules
(2010) Ports 2010: Building on the Past, Respecting the Future - Proceedings of the 12th Triannual International Conference, pp. 1202-1211.

Leonard, I., Baldwin, T., Sloderbeck, M.
Accelerating the customer-driven microgrid through real-time digital simulation
(2009) 2009 IEEE Power and Energy Society General Meeting, PES '09, art. no. 5275341, .

Silveira, P.M., Duque, C., Baldwin, T.L., Ribeiro, P.F.
Sliding window recursive DFT with dyadic downsampling - A new strategy for time-varying power harmonic decomposition
(2009) 2009 IEEE Power and Energy Society General Meeting, PES '09, art. no. 5275212, .

Baldwin, T.L., Rifaat, R., Malik, S.M.
Concrete encapsulated electrodes
(2009) Conference Record - Industrial and Commercial Power Systems Technical Conference, art. no. 5463977, .

Peacock, B.L., Steurer, M., Langston, J., Baldwin, T., Henry, S.
Estimation of parameters for modeling of saturation effects for a transformer model for a real-time digital simulator
(2009) Proceedings of the Annual Southeastern Symposium on System Theory, art. no. 4806811, pp. 308-310.

Danku, M.A., Baldwin, T.L.
Fast prediction of the power-swing curve across transmission lines during wide area disturbances
(2009) 2009 Power Systems Conference: Advance Metering, Protection, Control, Communication, and Distributed Resources, PSC 2009, art. no. 5262322, pp. 281-285.

Brinson, T.E., Ren, W., Ordonez, J.C., Luongo, C.A., Baldwin, T.
Fuel cell-based powertrain system modeling and simulation for small aircraft propulsion applications
(2009) Journal of Fuel Cell Science and Technology, 6 (4), pp. 0410121-0410126.

de Carvalho, J.R., Duque, C.A., Ribeiro, M.V., Cerqueira, A.S., Baldwin, T.L., Ribeiro, P.F.
A PLL-based multirate structure for time-varying power systems harmonic/ interharmonic estimation
(2009) IEEE Transactions on Power Delivery, 24 (4), pp. 1789-1800.

Ren, W., Steurer, M., Baldwin, T.L.
An effective method for evaluating the accuracy of power hardware-in-the-loop simulations
(2009) IEEE Transactions on Industry Applications, 45 (4), pp. 1484-1490.

Pan, Y., Steurer, M., Baldwin, T.
Feasibility study of noise pattern analysis based ground fault locating method for ungrounded DC shipboard power distribution systems
(2009) IEEE Electric Ship Technologies Symposium, ESTS 2009, art. no. 4906488, pp. 18-22.

Peacock, B.L., Steurer, M., Langston, J., Baldwin, T., Henry, S.
Estimation of parameters for modeling of saturation for a transformer model for a real-time digital simulator
(2009) 2009 IEEE International Symposium on Sustainable Systems and Technology, ISSST 2009, art. no. 4806811, pp. 306-310.

Langston, J., Steurer, M., Baldwin, T., Taylor, J., Hover, F., Simpson, J.
Considering uncertainty in assessment of impact of pulse load charging event on shipboard power system
(2008) Grand Challenges in Modeling and Simulation Symposium 2008, GCMS 2008, Part of the 2008 Summer Simulation Multiconference, SummerSim 2008, pp. 113-120.

Langston, J., Taylor, J., Hover, F., Simpson, J., Steurer, M., Baldwin, T.
Uncertainty analysis for a large-scale transient simulation of a notional all-electric ship pulse load charging scenario
(2008) Proceedings of the 10th International Conference on Probabilistic Methods Applied to Power Systems, PMAPS 2008, art. no. 4912669, pp. 445-452.

Henry, S.D., Rizy, D.T., Baldwin, T.L., Kueck, J.D., Li, F.
The application of droop-control in distributed energy resources to extend the voltage collapse margin
(2008) Conference Record - Industrial and Commercial Power Systems Technical Conference, art. no. 4606285, .

Ren, W., Steurer, M., Baldwin, T.L.
An effective method for evaluating the accuracy of power hardware-in-the-loop simulations
(2008) Conference Record - Industrial and Commercial Power Systems Technical Conference, art. no. 4606297, .

De Carvalho, J.R., Duque, C.A., Baldwin, T.L., Ribeiro, P.F.
A DFT-based approach for efficient harmonic/inter-harmonic analysis under time-varying conditions
(2008) IEEE Power and Energy Society 2008 General Meeting: Conversion and Delivery of Electrical Energy in the 21st Century, PES, art. no. 4596293, .

Baldwin, T.L.
Publish or perish: An evaluation of the quality, quantity, ethics and review process of IEEE/PES: Advanced technology for assisting the review process
(2008) IEEE Power and Energy Society 2008 General Meeting: Conversion and Delivery of Electrical Energy in the 21st Century, PES, art. no. 4596777, .

Pan, Y., Silveira, P.M., Steurer, M., Baldwin, T.L., Ribeiro, P.F.
A fault location approach for high-impedance grounded DC shipboard power distribution systems
(2008) IEEE Power and Energy Society 2008 General Meeting: Conversion and Delivery of Electrical Energy in the 21st Century, PES, art. no. 4596844, .

Duque, C., Silveira, P.M., Baldwin, T., Ribeiro, P.F.
Novel method for tracking time-varying power harmonic distortions without frequency spillover
(2008) IEEE Power and Energy Society 2008 General Meeting: Conversion and Delivery of Electrical Energy in the 21st Century, PES, art. no. 4596394, .

Ren, W., Steurer, M., Baldwin, T.L.
Improve the stability and the accuracy of power hardware-in-the-loop simulation by selecting appropriate interface algorithms
(2008) IEEE Transactions on Industry Applications, 44 (4), pp. 1286-1294.

Pan, Y., Steurer, M., Baldwin, T.L., McLaren, P.G.
Impact of waveform distorting fault current limiters on previously installed overcurrent relays
(2008) IEEE Transactions on Power Delivery, 23 (3), pp. 1310-1318.

Ren, W., Steurer, M., Baldwin, T.L.
Improve the stability and the accuracy of power hardware-in-the-loop simulation by selecting appropriate interface algorithms
(2007) Conference Record - Industrial and Commercial Power Systems Technical Conference, art. no. 4292112, .

Langston, J., Steurer, M., Baldwin, T., Woodruff, S., Andrus, M., Simpson, J.
Characterization of the transient behavior of an AC/DC conversion system for a notional all-electric ship simulation using sequential experimental design methodology
(2007) Summer Computer Simulation Conference 2007, SCSC'07, Part of the 2007 Summer Simulation Multiconference, SummerSim'07, 1, pp. 91-97.

Steurer, M., Woodruff, S., Baldwin, T., Boenig, H., Bogdan, F., Fikse, T., Sloderbeck, M., Snitchler, G.
Hardware-in-the-loop investigation of rotor heating in a 5 MW HTS propulsion motor
(2007) IEEE Transactions on Applied Superconductivity, 17 (2), pp. 1595-1598.

Brooks, N.R., Gross, F.B., Baldwin, T.L.
Application of nested optimization/regularization for the magnetostatic field synthesis algorithm, variable field generation
(2006) IEEE Transactions on Magnetics, 42 (4), pp. 1147-1150.

Briggs, M.J., Dykstra, D., Baldwin, T.
Modeling of harbor resonance in port of long beach
(2006) Proceedings of the International Conference on Civil Engineering in the Oceans VI, pp. 479-493.

Baldwin, T., Hogans, T., Henry, S., Renovich Jr., F., Latkovic, P.
Reactive power compensation for voltage control at resistance welders
(2005) Conference Record - Industrial and Commercial Power Systems Technical Conference, pp. 1-9.

Baldwin, T.L., Hogans Jr., T., Henry, S.D., Renovich Jr., F., Latkovic, P.T.
Reactive-power compensation for voltage control at resistance welders
(2005) IEEE Transactions on Industry Applications, 41 (6), pp. 1485-1492.

Li, H., Baldwin, T.L., Luongo, C.A., Zhang, D.
A multilevel power conditioning system for superconductive magnetic energy storage
(2005) IEEE Transactions on Applied Superconductivity, 15 (2 PART II), pp. 1943-1946.

Bodziony, T., Baldwin, T.L., Pamidi, S., Dale, S.J.
Low-cost dielectrics for power distribution transformers
(2005) IEEE Transactions on Applied Superconductivity, 15 (2 PART II), pp. 1843-1846.

Baldwin, T.L., Steurer, M., Liu, Y.
A novel method of controlling the effective impedance of a cold-dielectric, very low impedance, superconducting cable
(2005) IEEE Transactions on Applied Superconductivity, 15 (2 PART II), pp. 1783-1786.

Langston, J., Steurer, M., Woodruff, S., Baldwin, T., Tang, J.
A generic real-time computer simulation model for superconducting fault current limiters and its application in system protection studies
(2005) IEEE Transactions on Applied Superconductivity, 15 (2 PART II), pp. 2090-2093.

Wang, H., Baldwin, T.L., Zheng, J.P.
Comparison of polyamide insulation coatings on metallic substrates using different coating methods
(2004) Conference Record of IEEE International Symposium on Electrical Insulation, pp. 576-580.

Baldwin, T.L., Lewis, S.A.
Distribution load flow methods for shipboard power systems
(2004) IEEE Transactions on Industry Applications, 40 (5), pp. 1183-1190.

Henry, S., Baldwin, T.
Improvement of power quality by means of fault current limitation
(2004) Proceedings of the Annual Southeastern Symposium on System Theory, 36, pp. 280-284.

Brooks, N., Baldwin, T., Brinson, T., Ordonez, J., Luongo, C.
Analysis of fuel cell based power systems using EMTDC electrical power simulator
(2004) Proceedings of the Annual Southeastern Symposium on System Theory, 36, pp. 270-274.

Brooks, N.R., Baldwin, T.L.
Utilization of magnetic fields for highly advanced aircraft flight control
(2004) IEEE Transactions on Applied Superconductivity, 14 (2), pp. 1878-1881.

Baldwin, T.L., Hittel, M.J., Saunders, L.F., Renovich Jr., F.
Using a microprocessor-based instrument to predict the incident energy from arc-flash hazards
(2004) IEEE Transactions on Industry Applications, 40 (3), pp. 877-886.

Steurer, M., Woodruff, S., Brooks, N., Giesbrecht, J., Li, H., Baldwin, T.
Optimizing the transient response of voltage source converters used for mitigating voltage collapse problems by means of real time digital simulation
(2003) 2003 IEEE Bologna PowerTech - Conference Proceedings, 1, art. no. 1304176, pp. 484-489.

Tang, J., Cartes, D., Baldwin, T.
Economic Dispatch with Piecewise Linear Incremental Function and Line Loss
(2003) 2003 IEEE Power Engineering Society General Meeting, Conference Proceedings, 2, pp. 944-947.

Lewis, S.A., Baldwin, T.L.

Distribution Load Flow Methods for Shipboard Power Systems

(2003) Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2, pp. 812-819.

Baldwin, T.L., Hittel, M.J., Saunders, L.F., Renovich Jr., F.

Microprocessor-based instrument for predicting the incident energy from arc flash hazards

(2003) Conference Record of Industrial and Commercial Power Systems Technical Conference, pp. 89-97.

Baldwin, T.L., Ykema, J.I., Allen, C.L., Langston, J.L.

Design optimization of high-temperature superconducting power transformers

(2003) IEEE Transactions on Applied Superconductivity, 13 (2 II), pp. 2344-2347.

Chang, H.-M., Choi, Y.S., Van Sciver, S.W., Baldwin, T.L.

Cryogenic cooling temperature of HTS transformers for compactness and efficiency

(2003) IEEE Transactions on Applied Superconductivity, 13 (2 II), pp. 2298-2301.

Brooks, N.R., Baldwin, T.L.

Universal magnetic inversion scheme to design novel superconducting magnet systems

(2003) IEEE Transactions on Applied Superconductivity, 13 (2 II), pp. 1676-1679.

Luongo, C.A., Baldwin, T., Ribeiro, P., Weber, C.M.

A 100 MJ SMES demonstration at FSU-CAPS

(2003) IEEE Transactions on Applied Superconductivity, 13 (2 II), pp. 1800-1805.

Baldwin, T., Renovich Jr., F., Saunders, L.F.

Directional ground-fault indicator for high-resistance grounded system

(2003) IEEE Transactions on Industry Applications, 39 (2), pp. 325-332.

Baldwin, T., Renovich Jr., F.

Analysis of fault locating signals for high-impedance grounded systems

(2002) IEEE Transactions on Industry Applications, 38 (3), pp. 810-817.

Baldwin, T., Renovich Jr., F., Saunders, L.

Directional ground fault indicator for high-resistance grounded systems

(2002) Conference Record of Industrial and Commercial Power Systems Technical Conference, pp. 103-109.

Baldwin, T., Renovich Jr., F., Saunders, L.F., Lubkeman, D.
Fault locating in ungrounded and high-resistance grounded systems
(2001) IEEE Transactions on Industry Applications, 37 (4), pp. 1152-1159.

Baldwin, T., Renovich, F., Saunders, L., Lubkeman, D.
Fault locating in ungrounded and high-resistance grounded systems
(2001) Conference Record of Industrial and Commercial Power Systems Technical Conference, pp. 163-169.

Baldwin, T., Renovich, F.
Analysis of fault locating signals for high-impedance grounded systems
(2001) Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 3, pp. 1823-1830.

Baldwin, Thomas, Renovich, Frank, Saunders, Lynn, Lubkeman, David
Fault locating in ungrounded and high-resistance grounded systems
(2000) Record of Conference Papers - Annual Petroleum and Chemical Industry Conference, pp. 245-251.

Baldwin, Thomas L., Tison, Ken
Tools for supplying premium quality power
(1995) Northcon - Conference Record, pp. 288-293.

Baldwin, Thomas L., Tison, Ken
When reliable power is not good enough
(1995) Proceedings of the American Power Conference, 57-2, pp. 1724-1731.

Baldwin, Thomas L., Mili, Lamine, Phadke, Arun G.
Dynamic ward equivalents for transient stability analysis
(1994) IEEE Transactions on Power Systems, 9 (1), pp. 59-67.

Baldwin, T.L., Mili, L., Phadke, A.G.
Ward-type equivalents for transient stability analysis
(1992) IFAC Symposia Series, (9), pp. 439-443.

Mili, L., Baldwin, T., Adapa, R.
Phasor measurement placement for voltage stability analysis of power systems
(1990) Proceedings of the IEEE Conference on Decision and Control, 6, pp. 3033-3038.

Girgis, Adly A., Baldwin, Thomas L., Makram, Elham B., Fortson Jr., Hoke S.
Testing the performance of three-phase induction watthour meters in the presence of harmonic distortion
(1990) IEEE Transactions on Industry Applications, 26 (4), pp. 689-695.

Peterson, William L., Makram, Elham B., Baldwin, Thomas L.
Generalized PC based bus impedance matrix building algorithm
(1989) Conference Proceedings - IEEE SOUTHEASTCON, 2, pp. 432-436.

Girgis, Adly A., Baldwin, Thomas L., Makram, Elham B., Fortson, Hoke S.
Testing the performance of three-phase induction watt-hour meters using reproduced harmonically distorted actual recorded waveforms
(1989) Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), (pt 2), pp. 1769-1775.

Girgis, Adly A., Makram, Elham B., Baldwin, Thomas L.
Computer based harmonic generator facilities to study harmonic related problems
(1989) IEEE Transactions on Power Systems, 4 (3), pp. 1252-1257.

Girgis, Adly A., Baldwin, Thomas L., Makram, Elham B., Fortson, Hoke S.
Testing the performance of three-phase induction watt-hour meters in the presence of harmonic distortion
(1989) Papers - Rural Electric Power Conference, pp. A2-1-A2-7.

Baldwin, Thomas L., Makram, Elham B.
Economic dispatch of electric power systems with line losses
(1989) Proceedings of the Annual Southeastern Symposium on System Theory, pp. 13-17.