LIST OF PUBLICATIONS

Dr. B. Szabados

Nov 2006

PUBLICATIONS IN REFEREED JOURNALS


B. Szabados, "Interactive Outcome-Based Assessment Using Multimedia", IJEE Special Issue on Current Trends in Electronics Education, 2003

D. Fischer, B. Szabados, S. Poehlman, "Using a Bayes Classifier to Optimize Alarm Generation To Electric Power Generator Stator Overheating", accepted IEEE transactions on Instrumentation and Measurement, 2003


M.Chan and B. Szabados, “On Line Production Control of Tandem Systems with Finite Inter-Stage


D.C. McCrackin, B. Szabados, “Using Horizontal Prefetching to Circumvent the Jump Problem” IEEE

B. Szabados, J.H. Dableh, R.D. Findlay, G.M. Obermeyer and R.E. Draper, “Measurement of the Torque-
Speed Characteristics of Induction Motors Using an Improved New Digital Approach”, trans. IEEE-

J.H. Dableh, R.D. Findlay, R.T.H. Alden and B. Szabados, “A Novel Electromagnetic Field Shaper for Pipe-
Type Cable System”, IEEE Trans. on Power Delivery, Vol. 5, N. 1, Jan., 1990, pp 1-7

Three Dimensional Analysis of the Leakage Flux Densities in a Transformer”, Electrotechnische

I. El-Nahas, B. Szabados, M. Poloujadoff, R.D. Findlay, X. WU, “A three dimensional electromagnetic field
analysis technique utilizing the magnetic charge concept”, IEEE transactions on Magnetics, vol MAG-

Eddy Current Losses In The Tank Walls Of A Power Transformer”, IEEE transactions vol PWRD-2
nymb.3, pp- 810-816, july 87.

G. Brown, B. Szabados, “A Flexible Hybrid Firing Controller for Cycloconverter Drives”, IEEE transactions

Dimensional Flux Calculation On A 3 Phase Transformer”, IEEE trans. PWRD-1 nymb 3, pp 156-160,
july 1986.


O. Storoshchuk and B. Szabados, “Microprocessor Adaptive Control Of Oil temperature For Robot Arm
Valves: A Practical Implementation”, IEEE Trans. on Industrial Electronics Vol IE-33 nymb.1, pp21-27,
Feb 1986.

B. Szabados, “Harmonic Effects on Communication Interference”, Special publication of IEEE 84-

B. Szabados, “Harmonic Measurements: Instrumentation and Techniques”, Special Publication IEEE 84-

B. Szabados, “Solutions to Noise Problems: Identification”, Special Publication IEEE 84-EH0221-2-PWR,


B. Szabados, N. K. Sinha and C. D. diCenzo, “Steppers And PM Motors Compete For Control


FULLY REFEREED CONFERENCE PROCEEDINGS

Barna Szabados, Many Peung, "Stabilizing of a Synthetic Loading Test Rig for Large Induction Machines", Proceedings of the IEEE Instrumentation and Measurement Technology Conference, Sorrento, Italy 24-27 April 2006


Payman Hodaie, Barna Szabados, “A Common Computing Environment For Industrial Applications”, *CSME Hamilton*, Ont, Canada, May 7-9, 1996

Payman Hodaie, Barna Szabados, “Intelligent Monitoring System for Asynchronous Production Systems”, *CSME Hamilton*, Ont, Canada, May 7-9, 1996

Payman Hodaie, Barna Szabados, “Migration of Plant Floor Applications to a Network-Centric Architecture”, *IntraNet NY*, New York City, NY, April 8-10, 1996


**BOOKS**


R.D. Findlay, A.A. Jimoh and B. Szabados, “Development of Parasitic Torques Leading to Shaft Vibrations”


CONFERENCE PROCEEDINGS REVIEWED ON ABSTRACT


B. Szabados, "Outcome Based Assessment Using Multi-media", AEAS Conference, Toronto, Proceedings on CD, June 2-4, 2000


PATENTS

B. Szabados, J. Dableh, J. Tavares, "Dimmer for fluorescent lighting", PCT International Application, #PCT/CA97/00079, Feb 6, 97.

**INDUSTRIAL REPORTS**


“Standard Engineering Practices”, (NBEPC) III - 2.00 - 1.0 Levels of responsibility
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 2.0 Severity ratings
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 3.0 Time limits and course of action
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 4.0 Investigation and correction of a 60 Hz problem
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 5.0 Investigation of harmonic voltage problems
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 6.0 NBPower-NBTel Test set up
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 7.0 Ampere-Nile Vector Theory
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 8.0 Prediction of 60 Hz interference
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 9.0 Application of shunt capacitors to solve induced voltage and noise frequency problems.
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 10.0 Solution of a noise frequency problem caused by shunt capacitors
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 11.0 Solution of noise frequency problems caused by transformers and voltage regulators
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 12.0 Definition of terms
“Standard Engineering Practices”, (NBEPC) III - 2.00 - 13.0 Feeder Balance

“Standard Operating Practice”, NBEPC practice S.O.P. III - 2.00

“Joint Use Practice for NBPower and NBTel”, operating practice.

PROFESSIONAL PAPERS LECTURES AND COURSES GIVEN

"Zero Emission Vehicles, technologiacal problems", multimedia lecture at ISTASE (St Etienne), JUSSIEUX (Paris) and ENSEL (Annecy) March 98.

"Intelligent Monitoring Production Systems", multimedia lecture given at ISTASE (St Etienne), Mar 98

Modern Microprocessor Design Techniques, Invited lecture series (3 weeks) to the Ministry of Aviation Peoples Republic of China (Zhouzou, Shanghai, Nanjing, Beijing), Apr-May 87


B.Szabados, “Field Measurement Of Power System Impedance At Harmonic Frequencies”, IEEE chapter invited lecturer, Winnipeg, Manitoba, feb 1984


“Technical Applications of Microprocessors”, Nov. 6, 1982, short course to APEO Professional Development Series.

“Inductive Coordination”, 1 week course to Power and Tel. engineers, University of Minnesota, extension course services Feb. 1978.

Guest lecturer (2 days) at Telephone and Power Joint Symposium, Stevens Point, Wisc., Feb. 1977.

“Telephone Interference”, 1 week course to Manitoba Hydro, Calgary Power and Telephone, May 1976.

“Interférence Téléphonique” (en français), 1 week courses to Hydro Quebec, June 1975 in Quebec City, Jan. 1975 in Montreal.

PAPERS PRESENTED BY INVITATION


THESIS


M.Smadi, "Error Recovery Service for the IEEE 802.1 Protocol", M.Sc. 2004

N. VanStyke, "Torque Control in High Speed Permanent Magnet Motors", M.Sc. 2002


McCrankin D.C. “Microcode Level Timeslicing: A Novel Processor Accelerator”, M.Eng Thesis Oct 85


Brown G.M. “Hybrid Control of a Cycloconverter for Traction Drives”, M.Eng Thesis Sep 84.

Kim Y.H. “A Microprocessor Controlled Cycloconverter for Driving a Synchronous Motor”, M.Eng thesis,