CURRICULUM VITAE
for
Remus Teodorescu , Ph.D.

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Actual position: Associate Professor in Power Electronics and Drives
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Education:
- 1994, Ph.D., Galati University, with thesis: "Adjustable PWM Drive Systems with Induction Machines"
- 1998, Diplomaed Engineer Polytechnic Institute of Bucharest, Faculty of Electrotechnics

Positions held:
- Jan. 2004 – present : Associate Professor at Aalborg University
- Oct. 2000 – Dec. 2003 : Research Associate Professor at Aalborg University
- Oct. 1998 – Sept. 2000: Research Assistant Professor at Aalborg University
- Oct. 1996 – Sep.1998: Head of Power Electronics Research Group (PERG) at Galati University, Department of Electrical Engineering
- February 1995 – Sept. 1998: Assistant Professor at Galati University, Electrical Engineering Dept
- Aug. 1993 - Nov. 1993: Honorary Research Associate, University of Birmingham
- Oct. 1990 - Jan. 1995: Assistant at Galati University, Electrical Engineering Dept.
- Oct. 1989 – Sept. 1990: Maintenance Electrical Engineer at Iron & Steel Works Galati

Awards:
- Senior Member, IEEE, 2002
- Prize paper award in the Industrial Power Converter Committee at the Annual Meeting of the IEEE Industry Applications Society, 1998
- Third Optim-ABB Prize Paper Award, IEEE-OPTIM'2002
- "Medaille d'Or" at International Invention Fair, EUREKA'95, Brussels

Paper review:
- IEEE Transactions on Industrial Electronics (5)
- IEEE Transactions on Power Electronics (13)
- IEEE Transactions on Industry Applications (7)
- IEEE Power Electronics Specialist Conference 2002 (PESC '2002) (10)
- IEEE Power Electronics Specialist Conference 2003 (PESC '2003) (10)
- IEEE Power Electronics Specialist Conference 2004 (PESC '2004) (14)
- IEEE Applied Power Electronics Conference 2004 (APEC '2004) (10)
- European Power Electronics Conference 1997 (EPE 1997) (15)
- European Power Electronics Conference 1999 (EPE 1999) (15)
- European Power Electronics Conference 2001 (EPE 2001) (15)
- European Power Electronics Conference 2003 (EPE 2003) (20)
- Power Electronics and Motion Control (PEMC 2002) (10)
- IEEE IECON 2003 (4)
- IEEE ISIE 2004 (4)

- IEEE OPTIM 2004 (4)

(x) specifies the number of reviewed papers

Memberships/chairmanships:

- Member of IEEE Industry Applications Society
- Member of IEEE Industrial Electronics Society
- Member of IEEE Power Electronics Society
- Member of IDA
- Member of the International Steering Committee OPTIM, 2004
- Topic Chairman and Member of Technical Program Reviewer PESC 2003, Acapulco
- Topic Chairman and Member of International Scientific Committee EPE 2003, Toulouse
- Topic Chairman at PCIM'2003, Nuremberg, Germany
- Member of Technical Program Reviewer PESC 2002, Queensland
- Member of International Scientific Committee for EPE-PEMC 2002, Catvat&Dubrovnik
- Member of International Scientific Committee at EPE 2001, Graz
- Member of International Scientific Committee at EPE 1999, Lausanne
- Member of International Scientific Committee at EPE 1997, Trondheim

Opponent Ph.D. defends:

- Florin Iov "Contributions to Modelling, Analysis and Simulation of AC Drive Systems. Application to Large Wind Turbines" Galati University, Romania, 2003.

International collaboration/contacts

- Prof. Tore Undeland, NTNU, Norway
- Prof. Ned Mohan, University of Minnesota, USA
- Prof. Marian Kazmierkowski, University of Warsaw, Poland
- Prof. Ion Boldea, University Politehnica, Timisoara, Romania
- Prof. Prasad Enjeti, Texas A&M, USA
- Prof. Andy Trzynadlowski, University of Nevada-Reno, USA
- Prof. Franco Profumo, University of Torino, Italy

Industry Contacts/Collaboration

- Danfoss Drives A/S
- Power Lynx A/S
- Mita teknik A/S
- Gaia A/S

Attended Tutorials/Workshops:

- PWM for Controlled AC Motor Drives tutorial at EPE'93-Brighton, by prof. J.Holtz
- Microprocessor Control of a.c. Drives tutorial at EPE'95-Sevilla, by prof. E.Kiel, F.Profumo and W.Schumacher,
- Simulation of Power Electronics and Motor Drives Using PSpice tutorial at EPE'97 Trondheim, prof. N.Mohan, M. Giesselmann, O.Apeldorn,
- Total Development Environment Workshop at dSPACE in Padeborn 1998,
- Seminar on Control Concepts of Wind Turbines by RISØ and Aalborg Universitet, Aalborg, oct. 2000, "Xtreme DSP" seminar by Xilinx, Antwerp,2001,
- Intelligent Drives seminar by Peter Vas, 4-6 april, 2001.
- Introduction to Problem Based Learning – The AAU Way, 27-29 January 2003, AAU

Research and Development Projects:

[RP-1] *Regenerative Double PWM Converter Drawing Sinusoidal Currents, and Working at Near-Unity PF*, Sep. 1996 – Nov. 1997. I conducted this work dealing with analysis, modelling and simulation of this type of power converter. Pspice and Simulink was used as simulation tools. Contractor - Romanian Research & Technology Ministry

[RP-2] *Tandem Cold Rolling-Mill Pressure Screws Synchronization and Position Surveillance* – Sep. 1995 - Nov.1997. I was conducting this work dealing with the design and industrial realization of resolver-based position surveillance units. A digital electronic control unit based on Atmel 8-bit flash microcontroller was built for screws synchronization. Contractor - SIDEX SA Iron&Steel Works Galati.

[RP-3] *Digital Valve PID Controller with Resolver Position Feedback*,- May 1997 – Jan. 1998. I was conducting this work dealing with industrial electronics design and realization of large valve controllers. Resolvers and Resolvers-to-Digital Converters (RDC) together with Atmel 8-bit flash microcontrollers were used. Contractor AMCO SA Otopeni.

[RP-4] *Intelligent Resolver-based Position and Velocity Transducer*,Oct. 1996 – Nov. 1997. I was conducting this work dealing with design and realization of a resolver-based integrated velocity and position transducer for harsh industrial environment use. Contractor Romanian Research & Technology Ministry & Galfinband Cold Steel Strips Work Galati

[RP-5] *Adaptive Technique for Quarto Cold Rolling Mill Real Time Control and Surveillance*, March 1994 - Nov. 1995. I was involved in a large research group aiming to design and implement automatic thickness control of a cold steel strips mill using fuzzy controller. My job was most in the simulation of the system using Simulink and experimental testing and data acquisition. The work was patented and succesfully implemented at the above mentioned rolling-mill using Advantech control hardware. Contractor Romanian Research & Technology Ministry & Galfinband Cold Steel Strips Work Galati,

[RP-6] *PWM-Field-Oriented AC Drive Implementation* - Aug. 1993-Nov. 1993 I worked with Birmingham University, Department of Electrical Engineering, Power Electronics and Traction Systems Group. My job was the implementation of the Space Vector Modulation using a TMS320C31-based controller on a 7 kW power inverter as well as PC simulation of the system using Simulink.

[RP-7] *Medium Voltage Inverters Realization Using Standard IGBT Inverters Viewed as Power Electronics Blocks* - April 1998-July 1998. I was involved in a research project in collaboration with prof. Prasad Enjetti from A&M Texas University. My job was to implement an original phase-shifted SVM strategy on a DSP/microcontroller (ADSP21062/80C167) platform and to apply it to three cascaded IGBT VSI having the outputs connected in a delta connection through transformer couplings. The new equivalent medium voltage inverter performances were tested experimentally in an adjustable speed drive application. The system was simulated using SABER software.

[RP-8] *The Flexible Drive Systems Laboratory* - Oct. 1998 – Oct. 1999. I was conducting this project dealing with the design and realization of a flexible ac drive laboratory for both teaching and research at Aalborg University, IET that should make electrical drives more attractive for students. I used DS1103 controllers from dSPACE to control Danfoss VLT inverters. Simovert MC drives with PMSM are used as loading system with direct torque control. The application software was developed within Simulink environment. I developed and built hardware interfaces for the system including a signal conditioning unit and an Interface and Protection Card (IPC) that allows the VLT5000 frequency inverter series from Danfoss to be controlled using externally generated pwm gate signal. The IPC has been manufactured in over 60 pcs. and is now used by many universities, research institutes and companies around the world including (MIT, WEMPEC,

Wuppertal Univ., Aberdeen Univ., Chalmers Univ, Grundfos A/S, etc). More details about IPC can be found in the flyer enclosed. The laboratory is successfully used for 8-th Basics of Electrical Drives and 9-th semester Advanced Control of PWM Inverter Fed Induction Machines courses as well as for EPE acknowledged Digital Control of Induction Machine international course held two time a year with people from industry and academia.

[RP-9] *1500W Calorimetric System* Nov. 1999 – Dec. 1999 I was involved in this project for short time. My job was to design and build the electrical hardware setup including the computer assisted data acquisition and processing system using National Instruments hardware&software. Contractors: ABB A/S, Grundfos A/S.

[RP-10] *Feasibility Study of Electronic Ballast* Jan. 2000 – Nov. 2000 I was conducting this project dealing with finding new ballast topologies that will lead to lower manufacturing cost. My job was to explore new electronic ballast structure for both low-pressure gas-discharge lamps (fluorescent) and high –pressure gas-discharge lamps (HID). High efficiency dimming and optimal preheating of the filament was considered along with the IEC 61000 PFC regulation compliance. A new topology for a ballast electronic circuit with preheating function was developed and patented. Contractor: Danfoss Lighting System A/S.

[RP-11] *Multilevel Resonance Converter* - Jan. 2001- Dec. 2002 I was involved in the project dealing with investigating overall efficiency improvements in large multilevel inverters using resonance (soft switching). My job included: designing of high power low loss resonant inductor, building and testing of a double 60 kW dc voltage controllable source, implementing sigma-delta modulator for a resonant dc-link NPC inverter used in a 60 kVA UPS using Spartan-II FPGA, testing and monitoring of the system using dSPACE DS1103 system. Contractor: APC A/S.

[RP-12] *Electrical Tractor Drive System* - Jan. 2001- June 2002. I was conducting the project dealing with the development of the new generation of electrical agricultural tractors. My job included: building a test setup for testing and characterization of 2x53kW BLDC traction drive-train, design and testing of CAN bus and communication program for monitoring of parameters. Contractor: Sauer-Danfoss A/S.

[RP-13] *11-kW stand-alone wind mill*. I was conducting the project dealing with the development of a test setup for a small wind turbine using squirrel-cage induction generator and back-to-back converter in the stator. The grid converter was a three-phase active rectifier with current control and LCL filter. The control was implemented using dSPACE controller. The system was successfully tested and now it is running field tests with the real wind turbine with the purpose of moving to series production. Contractor: Gaia A/S and Mita-Teknik. A/S.

[RP-14] *DC-AC Inverter Module for Photovoltaic Interface Converter:* Jan. 2003 – present. I am involved in this project dealing with the product development of 3 kW photovoltaic interface converter. My job is to develop and implement a control strategy that includes: rejection of low harmonics from the grid current using resonant controllers, pll for grid synchronization and grid disturbances detection, active anti-islanding and on-line grid impedance measurement. The control is first developed and simulated using Simulink and then coded in C language and implemented in a TMS320F2407 DSP. Contractor: Power Lynx A/S.

Publications:

A. Conference and Journals papers with review

[P-1] Ghita,C., Burtea,V.,**Teodorescu,R.**,"Driving unit with two induction machines having a large adjustable speed domain", Proceedings of the Conference on Optimization of Electric, Electronic Driving, Automation and Computing Equipments, OPTIM '87, Brasov,

pp.265 - 270
[P-2] Ghita,C., Burtea,V.,**Teodorescu,R**., "Large variable speed unit with two induction machines mechanically coupled", Proceedings of The 2-nd International Conference an Electrical Drives ICED '88, Poiana Brasov., pp. B-2-5-1 – B.2-5-8
[P-3] Ghita,C.,**Teodorescu,R**., Burtea,V.,"The power parameters of a driving unit with two induction machines having a large adjustable speed domain", Proceedings of the 6-th National Conference on Electrical Drives, CNAE '88,Timisoara, pp.1.53 – 1.58
[P-4] Ghita,C.,**Teodorescu,R**., Burtea,V."The dynamic characteristics of an adjustable speed unit with two induction machines", Proceedings of the 7-th National Conference on Electrical Drives, CNAE '90, Galati, vol.2, pp.23 - 29
[P-5] **Teodorescu,R**. "Mathematical Model and Numerical Simulation of Induction Machine Supplied with Variable Voltage and VariableFrequency", Proceeding of SIMECS '91, Bucuresti (in romanian)
[P-6] **Teodorescu,R**. "The Design of a new electric machinery laboratory", Proceedings of the 8-th National Conference on Electrical Drives, CNAE '92, Iasi, pp.E.18.1 – E.18.5.
[P-7] **Teodorescu,R**., Bivol,I. "A PC Simulation of PWM Frequency Inverters" Proceeding of the XIII-th Scientific Session of Naval Academy "Mircea Cel Batran",Constanta,1993 (in romanian)
[P-8] Bivol,I., Aiordachioaie,D.,**Teodorescu,R**., "Thickness control of rolling mills using fuzzy inference", Proceedings of the 8-th Symposium on Modelling, Simulation and Identification Systems the 8-th SIMSIS'94, Galati, pp.239-245
[P-9] **Teodorescu,R**, Cãlueanu D. "Space vector pulse width modulation.Harmonic analysis", Proceedings of the 4-th International Conference on Optimization of Electrical and Electronic Equipments, OPTIM '94, Brasov, pp.125 - 129
[P-10] Bivol, I., Rosu,E., **Teodorescu,R**., "Adaptive Control of Induction Machines", Proceedings of the 4-th International Conference on Optimization of Electrical and Electronic Equipments OPTIM '94, Brasov, pp.305 - 310
[P-11] Bresnahan,K., Zelaya,D.P.H., **Teodorescu,R**., Evans,P.D. "Harmonic analysis of SVM PWM for the characterization of a general purpose induction motor test rig", Proceedings of the 5-th International Conference on Power Electronics and Variable-Speed Drives, PEVD '94,London, pp.352 – 356.
[P-12] **Teodorescu,R**., Frangu, L. "Space Vector PWM with Deadtime Effects Compensation for Induction motor Drives", EPE Chapter Symposium on Electric Drive Design and Applications, Lausanne, 1994.
[P-13] Aiordachioaie,D., **Teodorescu,R**., Puscasu,G. "Fault detection in electrical machines with neural networks", Proceedings of the 1-st International Conference on Electrical Machines, ICEM'95, Cluj, pp.229 - 234
[P-14] **Teodorescu,R**., Zelaya,D.P.H., Bresnahan, K.,Rosu, E.,"A Simulink Approach to Power Electronics Simulations", EPE'95 Sevilla 1995, pp.3.954 – 3.958
[P-15] Floricau,D., Mihalache,C., Fodor,D., **Teodorescu,R**. "Displacement Factor and Power Factor for c.a. - c.c. Power Converters",E.E.A.-"Electrotehnica" review, vol.44(1996),nr.1-2,Technical Press Bucharest (in romanian) pp.. 30-34
[P-16] **Teodorescu,R**., Aiordachioaoie,D., Bivol,I. "Speed and torque estimator for induction motor drives using statorical terminal measurements" ,Proceedings of the 9-th Symposium on Modelling, Simulation and Identification Systems SIMSIS'96, Galati, pp.411 - 415
[P-17] Aiordachioaoie,D., Bivol,I., **Teodorescu,R**., "Fault detection and classification of servomechanism nonlinearities by neural technics" ,Proceedings of the 9-th Symposium on Modelling, Simulation and Identification Systems SIMSIS'96, Galati, pp.331 - 339
[P-18] **Teodorescu,R**., Bivol,I., Rosu,I., Floricău,D. "A High-Performance Position and Velocity Tracking System for Servo-Drives", "ELECTROTEHNICA 96" Jubilee Session, Faculty of Electrotechnics, University "Polytechnica" of Bucharest, pp.104 - 107
[P-19] Floricau,D., Fodor,D., Bogus C., **Teodorescu,R**. "Using Switching Functions in Power

Converters Simulations", "ELECTROTEHNICA 96" Jubilee Session, Faculty of Electrotechnics, University "Polytechnica" of Bucharest (in romanian) pp.81 - 86

[P-20] **Teodorescu,R**. Rosu,E., Bivol,I., Vasilache,C. "A Complete Resolver-Based Velocity and Position Tracking System for High Performanes Drives", EPE'97, Trondheim, Proceedings, vol.3, pp.649 – 652.

[P-21] Birsan,I.G, **Teodorescu,R**. "Bladed Springs Coupling Used at Shaft Line Starting-Up Simulation" - Machine Engineering Review, vol.49, nr.1, 1997,Technical Press Bucharest, ISSN 1224-3183 (in romanian) pp. 8-13,

[P-22] Floricau,D, Ionescu,F, Dumitrescu,M, **Teodorescu,R**: "PWM-VSI Strategies with Discontinuous Operation", Symposium on Advanced Topics in Electrical Engineering - ATEE, Section: Electrical Apparatus and Power Static Converters, 1998, Bucharest, pp. 27-32,.

[P-23] **Teodorescu,R**., Lungeanu, F., Iov,F., Tataru A.M., Dumitriu,T.," A New Parameters Identification Technique for Induction Machine Diagnosis", OPTIM'98, Brasov, Conference proceedings, pp.567 - 572

[P-24] **Teodorescu,R**., Lungeanu, Dumitriu,T., Tataru A.M., Panaitescu,R.," The Development of a Simulink Toolbox for Advanced Electrical Drives Simulation", OPTIM'98, Brasov, Conference proc., pp.573 - 576

[P-25] **Teodorescu,R**., Lungeanu, F., Iov,F., Dumitriu,T.,Tataru A.M.,"Portable Acquisition and Identification Tool for Induction Machine Diagnosis", PEVD'98, London, Conference Publication No. 456 "IEE, pp. 515 –520.

[P-26] Cengelci,E., Woo,B., Enjeti,P.**, Teodorescu,R.,** Blaabjerg,F**.**" A New Medium Voltage PWM Inverter Topology for Adjustable Speed Drives", 33-rd Annual Meeting IAS'98, St. Louis, Montana, US, Conference Records vol.2, pp.1416 – 1423.

[P-27] Cengelci,E., Woo,B., Enjeti,P., **Teodorescu,R.,** Blaabjerg,F. "A New Medium Voltage PWM Inverter Topology for Adjustable Speed Drives", IEEE Trans on IA, vol.35, No.3 May/June 1999, pp.628-637

[P-28] **Teodorescu,R.,** Blaabjerg,F., Pedersen,J., Enjeti,P., Cengelci,E "Space Vector Modulation Applied to Modular Multilevel Converters",20-th PCIM'99, Nuremberg, Conference Proceedings, Intelligent Motion, pp. 363 – 368.

[P-29] **Teodorescu,R**., Tataru,A.M., Lungeanu,F., Dumitriu,T., Iov,F. "Simulation of Five-Phase Induction Motor" Proceedings of 3rd International Symposium on Advanced Electromechanical Motion Systems, Patras, 1999, July 8-9, Vol I, p. 93-96

[P-30] **Teodorescu,R.,** Blaabjerg,F., Pedersen,J.K, Cengelci,E., Sulitjio,S.U, Woo,B.O, Enjeti,P - " Multilevel Converters – A Survey", Proceedings of EPE'99 Lausanne (CD-ROM-pp.408)

[P-31] **Teodorescu,R.,** Bech,M.M., Blaabjerg,F., Pedersen,J.K. -" Flexible Drives Systems Laboratory – A Modern Teaching Facility in Electrical Drives at Aalborg University", Proceedings of IEEE NORpie'2000 Workshop, Aalborg, pp.42 – pp.46.

[P-32] **Teodorescu,R.,** Blaabjerg,F., Pedersen,J.K, Cengelci,E., Enjeti,P. -"Cascade Industrial VSI Gives Medium Voltage – A Case Study", Proceedings of IEE PWM Medium Voltage Drives Seminar, 11 May 2000, Birmingham, pp5/1 – 5/4

[P-33] **Teodorescu,R.,** Bech,M.M., Blaabjerg,F., Pedersen,J.K. -"A New Approach in Teaching Power Electronics Control of Electrical Drives using Real-Time Systems", Proceedings of IEEE COMPEL'2000 Workshop, Blacksburg, Virginia, pp.220 – pp.225.

[P-34] **Teodorescu,R**., Bech,M.M., Blaabjerg,F., Pedersen,J.K. -"A Modern Laboratory for Teaching Electrical Drives at Aalborg University", Proceedings of EPE E=TeM2, 2001, Liege, pp.II-1 – II-9

[P-35] **Teodorescu,R**., Kjær,S.B., Munk-Nielsen., Blaabjerg,F., Pedersen,J.K. -"Comparative Analysis of Three Interleaved Boost Power Factor Corrected Topologies in DCM", Proceedings of IEEE PESC'2001, Vancouver, vol.1, pp.3 – 7

[P-36] **Teodorescu,R**., Kjær,S.B., Munk-Nielsen., Pedersen,J.K.,Blaabjerg,F., -"Practical

Consideration Concerning the Interleaved Transition Mode Single-Stage Ballast", Proceedings of IEEE ISIE'2002, L'Aquila, vol.4, pp.1065-1070

[P-37] Munk-Nielsen,S., Bech,M.M., **Teodorescu,R**., Pedersen,J.K. -"Simulink Model of a Three Level Converter Leg Including Device Losses", Proceedings of PCC'2002, Osaka, pp.559 - 564

[P-38] **Teodorescu,R**., Munk-Nielsen., Bech,M.M., Pedersen,J.K. -"Practical Consideration Regarding the Design of a High-Power Low-Loss Resonant Inductor", Proceedings of IEEE OPTIM 2002, Brasov, vol.II, pp.263 – 268

[P-39] Bojoi, R., Profumo,F., Griva,G., **Teodorescu,R**., Blaabjerg F. –"Advanced Research and Education in Electrical Drives by Using Digital Real-Time Hardware-in-the-Loop Simulation" – Proceedings of EPE-PEMC 2002

[P-40] **Teodorescu,R**., Bech,M.M.,Jørgensen,A,H., Larsen,K.B., Blaabjerg,F., Pedersen,J.K. – "Advanced Prototyping tools for project- and problem-based learning" – Proceedings of EPE-PEMC 2002

[P-41] Munk-Nielsen,S., Bech,M.M., **Teodorescu,R**., Pedersen,J.K. -" A Three Level Natural Clamped Inverter (NCI)", Proceedings of IECON'2002,Sevilla

[P-42] **Teodorescu,R.,** Blaabjerg,F., Pedersen,J.K, Cengelci,E., Enjeti,P. -"Multilevel Inverter by Cascading Industrial VSI", IEEE Transactions on Industrial Electronics, vol. 49, No. 4, August 2002, pp.832 – 838.

[P-43] **Teodorescu,R,** Blaabjerg.F, Iov.F, - "Control Strategy for Small Stand-Alone Wind Turbines", PCIM 2003 Europe, Power Quality, Conference Proceedings, vol. 9, pp.201-205

[P-44] Iov.F, Hansen.A, Blaabjerg.F, **Teodorescu,R,** - "Modelling of Soft-Starters for Wind Turbine Applications", PCIM 2003 Europe, Power Quality, Conference Proceedings, vol. 9, pp.213-218

[P-45] **Teodorescu,R**, Iov.F, Blaabjerg.F, - "Flexible Development and Test System for 11kW Wind Turbine", Proceedings of PESC'2003 , vol.1,, pp.67-72

[P-46] Bindner,H., Lundsager,P., Wodstrup,J., Thillerup,A., Andersen,J., Blaabjerg,F., **Teodorescu,R.,** "Application of Proven 11 kW Wind Turbine in Modular Small Power System Concept" – Proceedings of EREC Conference on Renewable Energy for Islands, Tourism and Water Desalination, Crete, 2003

[P-47] Bindner,H., Rosos,P., Wodstrup,J., Thillerup,A., Andersen,J., Blaabjerg,F., **Teodorescu,R.,** "Development of an 11 kW stand-alone wind turbine" – Proceedings of EWEC'03, Madrid, 2003

[P-48] Munk_Nielsen S., **Teodorescu,R.,** Bech,M.M, "Comparison of Soft and Hard-Switched Efficiency in a Three-Level Single Phase 60 kW dc-ac Converter", Proceedings of EPE 2003, Toulouse (on CD-ROM)

[P-49] **Teodorescu,R.,** Iov,F., Blaabjerg,F., Urlep,E.**, "**" Bech,M.M, "Control Implementation and Test of an 11 kW Adjustable Speed Wind Turbine Using Flexible Development Platform", Proceedings of EPE 2003, Toulouse (on CD-ROM)

[P-50] **Teodorescu,R**., Blaabjerg,F., Liserre,M., Dell'Aquila,A. – "A Stable Three-phase LCL-Filter Based Active Rectifier Without Damping" 38-rd Annual Meeting IAS'03, Salt Lake City, Utah, US, Conference Records, vol.3, pp.1552-1557

[P-51] Munk_Nielsen S. Bech,M.M, **Teodorescu,R., -** "Tre-niveau resonanskonverter anvendt i UPS-anlæg", Elteknik, nr. 10/2003, pp. 14-17

[P-52] **Teodorescu,R.**, Blaabjerg,F., Liserre.M., Borup,U.,-" A New Control Structure for Grid-Connected PV Inverters with Zero Steady-State Error and Selective Harmonic Compensation" – Proceedings of APEC'04, Anaheim, CA (accepted for publication in feb'04)

[P-53] **Teodorescu,R.**, Asiminoei,L., Blaabjerg, Borup,U.,-" A new method of on-line grid impedance estimation for PV inverters" – Proceedings of APEC'04, Anaheim, CA (accepted for publication in feb'04)

B. Research reports

[RR-1] **Teodorescu,R.** "A Space Vector Modulation PWM Implementation Using TMS320C30 Evaluation Module. Final Report", University of Birmingham, 1993

[RR-2] **Teodorescu,R.** "Flexible Drive System Laboratory – FDSL. Designer's Guide"- Aalborg University, IET, 1999

[RR-3] **Teodorescu,R.** "State-of-the art in Electronic Ballast Technology"- Aalborg University, IET, april 2000

[RR-4] **Teodorescu,R.** "Feasibility Study of Electronic Ballast"- Aalborg University, IET, september 2000

[RR-5] Munk-Nielsen S., **Teodorescu,R.** Bech,M.M "Multilevel Resonance Converter for a UPS – Pre-project"- Aalborg University, IET, 2001

[RR-6] **Teodorescu,R.,** "State of the art in traction drive systems" – Aalborg University, IET, 2002

[RR-7] **Teodorescu,R.,** "Laboratory test facility for the traction drive system" – Aalborg University, IET, 2002

[RR-8] Munk-Nielsen S., **Teodorescu,R.** Bech,M.M "Multilevel Resonance Converter for a UPS – Final Project"- Aalborg University, IET, 2003

C. Books, courses and laboratory guides

[B&C-1] Ionescu,F., Floricau,D., Nitu,S., Fodor,D., Rosu,E., **Teodorescu,R**.,Bivol,I., Alexa,D., Lucanu,M., Maxim,A., Neacsu,D., Pastravanu,A.,Lucanu,N., Millent,E. "POWER ELECTRONICS. Computer Simulations", Technical Press Bucharest, 1997, ISBN 973-31-1086-8 (in romanian)

[B&C-2] Calueanu,D., **Teodorescu,R**., Berbeciu,M.,Badea,N., Munteanu,T.,"Electrical Machines" - Course for Electrical Engineering Students., Galati University Press, 1994 (in romanian)

[B&C-3] **Teodorescu,R**., Rosu,E, Iov,F, Dumitriu,D, Lungeanu,F.,Tataru,A. -"Electrical Machines and Drives " - Laboratory Guide for Electrical Engineering Students, Galati University Press, 1997 (in romanian)

[B&C-4] Rosu,E, **Teodorescu,R**., Iov,F, Dumitriu,T, Lungeanu,F.,Tataru,A. -"Power Electronics " - Laboratory Guide for Electrical Engineering Students., Galati University Press, 1997 (in romanian)

[B&C-5] **Teodorescu,R**.–"The Flexible Drive Systems Laboratory – User's Guide"– Aalborg University, IET, 1999

[B&C-6] Bech, M.M, **Teodorescu,R** – "A Course in Digital Control of ac Drives Using dSPACE Mixed Risc/DSP System – Course&Lab Book", Aalborg University, IET,2000

D. Patents

[PAT-1] [1] "Adaptive Technique for Quarto Cold Rolling Mill Real Time Control and Surveillance"- OSIM Patent nr. 616/ 1995, Romania (co-author,gold-awarded at International Invention Fair, Eureka'95 Brussels)

[PAT-2] [2] "Electronic Ballast" – German patent WO 02/104081 A1, issued 27.12.02

Foreign Languages:

Danish (Studieprøve, Almenprøve 2), English, French, Romanian

Hobby: Jazz, Internet