Curriculum Vitae
Peter Palensky

Personal Data

Full name	Peter Palensky
Marital status	Married, 3 children
Nationality	Austria
Born	July 6th 1972 in Stockerau, Austria
Languages	German (native), English (fluent), Dutch (basic)
E-Mail	palensky@ieee.org

Short Biography

Peter Palensky is Professor for intelligent electric power grids at TU Delft, and Principal Investigator at the Amsterdam Metropolitan Solutions (AMS) Institute, both Netherlands. Before that he was Principal Scientist for Complex Energy Systems at the Austrian Institute of Technology (AIT) / Energy Department, Austria, Head of Business Unit "Sustainable Building Technologies" at the AIT, CTO of Envidatec Corp., Hamburg, Germany, associate Professor at the University of Pretoria, South Africa, Department of Electrical, Electronic and Computer Engineering, University Assistant at the Vienna University of Technology, Austria, and researcher at the Lawrence Berkeley National Laboratory, California. He is active in international committees such as IEEE and is Editor in Chief of the IEEE Magazine on Industrial Electronics. His main research field is complex energy systems.

Biography

Peter Palensky is Professor for intelligent electric power grids at TU Delft, and Principal Investigator at the Amsterdam Metropolitan Solutions (AMS) Institute, both Netherlands. He was born 1972 in Austria, studied and worked as a research assistant at the Vienna University of Technology (VUT), Institute of Computer Technology (ICT), where he lead and conducted industrial projects in the area of Information Technology (IT) for Energy Systems from 1997 until 2001. After his PhD (2001) on distributed artificial intelligence for demand side management he co-founded Envidatec GmbH, a Hamburg-based, innovative SME that delivers energy services such as data acquisition, energy data analytics and energy performance benchmarking. The basis for their services are distributed sensor networks and analytics databases, developed during his time at the VUT. 2002 he became University

Assistant (i.e. Assistant Professor) at the VUT and started — in addition to other courses — teaching "Microcomputer Architecture" (undergraduate) and "Distributed Systems" (graduate). He supervised Master Theses, mentored PhD Theses and continued acquiring and leading projects such as EU- or nationally-funded research projects. He is active in several international standardization committees such as ISO, IEEE, and CEN, mainly in the area of automation networks, and he is Editor in Chief of the IEEE Magazine on Industrial Electronics and Associate Editor for the IEEE Transactions on Industrial Informatics. His main research fields were automation networks, distributed systems, embedded systems, cognitive systems, home and building automation and energy management. In 2008 he joined the Lawrence Berkeley National Laboratory for 6 months research on wide area distributed energy management systems and demand response technology. In March 2008 he became associate Professor at the University of Pretoria (UP), South Africa, Department of Electrical, Electronic and Computer Engineering, teaching "Information Security" (graduate course that spans from number theory to firewalls) and "Design and Manufacturing" (undergraduate course for life-cycle embedded systems design). After that he joined Envidatec again as their CTO leading R&D and managing projects with distributed embedded systems, databases and energy management. In August 2009 he became head of the business unit for Sustainable Buildings Technologies (SBT) at the Austrian Institute of Technology (AIT), Energy Department, leading a 35-head team doing research in the area of intelligent and sustainable buildings and cities. In 2011 he was appointed the first Principal Scientist of the AIT, the highest scientific role at the institute, leading a team of high-profile researchers, and doing research on complex energy systems. Since fall 2014 he is full Professor and section chair for intelligent electric power grids at TU Delft, Faculty for Electrical Engineering, Mathematics and Computer Science, Netherlands. He leads a group of 45 scientists that does research and education on future power grids, integrated energy systems, grid controls, and energy management. At TU Delft he teaches "Energy Efficiency" (undergraduate) and "Intelligent Electrical Power Grids" (graduate).

Academic and Professional Qualifications

2015	Vienna University of Technology, (Habilitation), Vienna, Austria Venia docendi: "Intelligent Energy Systems"
1997 - 2001	Vienna University of Technology, (Dr.), Vienna, Austria. Thesis: "Distributed reactive Energy Management": "Sehr Gut" (1)
1991 - 1997	Vienna University of Technology (MSEE), Vienna, Austria. Thesis: "Demand-Side-Management in private homes via LON": "Sehr Gut" (1)
1986 - 1991	Senior High School for Technology HTBLA, Control Engineering (Engineer), Hollabrunn, Austria.
1982 - 1986	High School, Stockerau, Austria.

Chronological Employment History

2014 - now	Full Professor, Intelligent electric power grids, TU Delft, Netherlands
2011 - 2015	Principal Scientist, Complex Energy Systems, Austrian Institute of Technology / Energy Department, Austria

2009 - 2011	Head of Business Unit "Sustainable Building Technologies", Austrian Institute of Technology / Energy Department, Austria
2009	Guest Professor (1 Semester), Hanyang University, South Korea
2008 - 2009	Associate Professor, University of Pretoria, South Africa, Department of Electrical, Electronic and Computer Engineering. CTO, Envidatec Corporation, Hamburg, Germany
2008	Researcher at Lawrence Berkeley National Laboratory (DRRC), Berkeley, California, USA, responsible for security of distributed energy management systems + simulation.
2002 - 2013	Freelance industry consultant for energy management.
2002 - 2007	University Assistant at the Institute of Computer Technology (ICT), Vienna University of Technology. Responsible for teaching, research and project management.
2001 - 2002	Strategic System Development and Research, Envidatec GmbH Hamburg, Germany (7 Employees): R&D for distributed embedded systems, Internet- and automation-services including server technologies, high availability database clusters.
2001	Hard- and Software Development, Nodus GmbH Hamburg, Germany (Energy Management Systems, 20 Employees): responsible for strategic research and development (especially LonWorks/IP connectivity) and embedded design (HW/SW).
1997 - 2000	Researcher at the Institute of Computer Technology (ICT), Vienna University of Technology.
1994 - 1997	ASIC-Design and Hardware Development, SAT Vienna (Systems for Automation Technology, now part of Siemens Austria).
1993 - 1994	Tutor at Vienna University of Technology (Software, Electrical Laboratory, etc.).

Successful tenure procedures

2014	TU Delft, Netherlands, full Prof.
2013	Aalto University, Finland, assoc. Prof. (not taken)
2011	AIT Austrian Institute of Technology, Austria, principal scientist
2009	Lawrence Berkeley National Laboratory, USA, permanent staff scientist (not taken)
2007	University of Pretoria, South Africa, assoc. Prof.

Full semester courses

2017 - now	"Intelligent Electric Power Grids" (3 ECTS), TU Delft, Netherlands
2017	"Intelligent Electrical Power Grids" GIAN course at NIT Tiruchirappally, India
2016 - now	"Energy Efficiency" (3 ECTS), TU Delft, Netherlands

2010 - 2014	"ICT for Energy", MS Program "Industrial Energy" (3 ECTS), University of Leoben, Austria "Building Automation", MS Program "Renewable urban energy systems" (1.5 ECTS), University of applied Sciences "Technikum", Austria
2009	"Information and Network Security", MSEE Program (2 ECTS), Hanyang University, Korea
2008	"Information Security" MSEE Program, University of Pretoria (3 ECTS), South Africa "Design and Manufacturing: The embedded systems lifecycle", BSEE Program (3 ECTS), University of Pretoria, South Africa
2004 - 2007	"Distributed Systems", MSEE Program (3 ECTS), Vienna University of Technology, Austria
2004	"Computer Communication in Automation Laboratory", MSEE Program (1 ECTS), University of Pretoria, Republic of South Africa
2003 - 2007	"Microprocessor Architecture", BSEE Program (3 ECTS), Vienna University of Technology, Austria
2001	"Computer Communication in Automation", MS Program (1.5 ECTS), St. Petersburg Electrical Engineering University, St. Petersburg, Russia

Research impact

Peter Palensky founded the successful ICT and Energy group at the Institute of Computer Technology, Vienna University of Technology in 1997 (handed over to Dr. Kupzog, one of his former PhD Students, in 2007), it was and is steadily growing and sustainably influencing the energy research landscape in Austria.
With his larger team at the Austrian Institute of Technology he approached even larger and more complex topics and projects. Ranging from sustainable and efficient building design up to smart cities he further brings ICT technology and methods into the energy domain: simulation, distributed automation, data acquisition and system analysis. His position as AIT Principal Scientist entitled him to dig further into the fundamental scientific problems of complex energy systems. Now, as a full Professor at TU Delft he enables students and other scientists to work with him on the theory and the toolset for analyzing hybrid energy models and large-scale cyber-physical energy systems.
He is chair of TU Delft's PowerWeb initiative, a cross-faculty center of excellence for research on integrated and intelligent energy systems. He is teaming up with automation manufacturers, utility companies, international research peers and public authorities to implement his research ideas.

Awards and Patents

2007	European Patent EP 1850554 "Safe communications in a network" (co-inventor)
2007	Erwin Schroedinger Fellowship for 18 months research in the USA

Short and co-organized courses

2013 - now	"Smart Grids" (Parts "Demand Side Management" and "Modeling Energy Systems"), MSEE Program, Vienna University of Technology, Austria
2011	"Building Automation", Part of "Green. Building. Solutions. Vienna Summer University", 24. July - 14. August 2011, Vienna, Austria
2010 - 2013	"Distributed Systems" (Part "Building Automation" 1 out of 3 ECTS), MSEE Program, Vienna University of Technology, Austria
2009	"Connected Systems and Artificial Intelligence", Vienna University of Technology, Austria
2007	"Industrial Communication" WIFI Course "Industrial Engineer", Dornbirn, Austria
2006	"Industrial Communication" WIFI Course "Pre-Production Management", Salzburg, Austria "Industrial Communication" RIZ Course "Industrial Engineer", Waidhofen/Ybbs, Austria "Rechenmaschinen: Digital, Analog?", University of Applied Arts Vienna, Austria
2006 - 2007	"Selected Chapters of Artificial Intelligence and Cognitive Science", Vienna University of Technology, Austria
2003-2007	"Field Area Networks" (+ lab course), University of Applied Sciences Joanneum, Department of Industrial Electronics, Kapfenberg, Austria
2003	"Field Area Networks and Automation", Perm State Technical University, Russia
2002 - 2003	"Computer Aided Facility Management", Fachhochschule Kufstein, Austria "Intelligent Engineering Systems" (Seminar), Vienna University of Technology, Austria "Fieldbus Technology", Vienna University of Technology, Austria
1999	Lectures "Home Automation Technology" and "Demand Side Management with Intelligent Software Agents on Control Networks", Perm State Technical University, Perm, Russia
1999 - 2007	Courses, Lectures and Exercises: "Bussysteme und Rechnerkommunikation", "Fehlertolerante Systeme", "Computertechnik Labor", "Programmierpraktikum", "Projektlabor Computertechnik", "Komplexe Schaltwerke" at Vienna University of Technology, Austria (paused in 2001)

(Co-)organized scientific conferences

2020	IEEE Conference on Innovative Smart Grid Technologies ISGT (general Co-Chair) IEEE International Symposium on Industrial Electronics ISIE (general Chair)
2018	IEEE International Conference on Industrial Cyber-Physical Systems ICPS (Tutorial Chair)
2017	IEEE Conference on Industrial Electronics IECON (Special Session Co-Chair) IEEE International Symposium on Industrial Electronics ISIE (Program Co-Chair)

	IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General Chair)
	IEEE Industrial Informatics INDIN 2017 (Tutorial Chair)
2016	Cyber-Physical Systems Week 2016 (Industrial Liaison Chair)
	IEEE IECON 2016 (Technical Program Co-Chair)
	IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General Chair)
2015	IEEE Industrial Informatics INDIN 2015 (Technical Program Chair)
	IEEE EDST 2015 / CIGRE SC C6 Colloquium (Special Session Chair)
	IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General Chair)
2014	IEEE International Conference on Human-Systems Interactions HSI 2014 (Tutorial Chair)
	IEEE Frontiers on Information Technology FIT 2014 (General Co-Chair)
	IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General Chair)
2013	IEEE IECON 2013 (Technical Program Chair)
	IEEE Industrial Informatics INDIN 2013 (Tutorial Chair)
	Energieinformatik 2013 (General Chair)
	IEEE Frontiers on Information Technology FIT 2013 (General Co-Chair)
	IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (Technical Program Chair)
2012	IEEE Industrial Informatics INDIN 2012 (Technical Program Co-Chair)
	IEEE Frontiers on Information Technology FIT 2012 (General Co-Chair)
2011	IEEE Industrial Informatics INDIN 2011 (Technical Program Chair)
	IEEE AFRICON 2011 (Technical Program Chair)
2010	IEEE Industrial Informatics INDIN 2010 (Technical Program Co-Chair)
	ACM FIT 2010 (General Chair)
2009	IEEE AFRICON 2009 (Technical Program Chair)
2008	IT Revolutions 2008 (Technical Program Co-Chair and Theme Chair: "Artificial Intelligence 2.0")
2007	IEEE Industrial Informatics INDIN 2007 (Technical Program Chair and general organizer)
2006	OVE IGW 2006 (General Chair)
2005	IEEE ISIE 2005 (Special Session Coordinator)
	OVE IGW 2005 (General Chair)
2004	IEEE AFRICON 2004 (Chair Special Track on "Control Networks")
2003	OVE IGW03 (General Chair)
	OVE Workshop "intelligenter Strom" (General Chair)
2002	OVE IGW02 (Member Organizing Committee)
2001	IFAC FET01 (Member Organizing Committee)
1999	IFAC FET99 (Member Organizing Committee)

Member of conference program committees, organized conference tracks

2019	IEEE International Conference on Industrial Technology (ICIT) Track Power Systems and Smart Grids
	IEEE International Conference on Smart Energy Systems and Technologies (SEST)
2018	IEEE International Conference on Industrial Electronics for Sustainable Energy Systems (IESES)
	16th IEEE International Conference on Smart City (SmartCity)
	IEEE International Symposion on Industrial Electronics (ISIE) Track Power Systems and Smart Grids
	Doctoral Conference on Computing, Electrical and Industrial Systems (DocEIS)
	IEEE International Conference on Industrial Technology (ICIT) Track Power Systems and Smart Grids
	5th International Workshop on Computational Energy Management in Smart Grids (CEMiSG)
	Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM)
	IEEE Conference on Industrial Electronics (IECON) Track Power Systems and Smart Grids
2017	EvoStar Track EvoEnergy
	3rd IEEE International Conference on Cybernetics (CYBCONF)
	1st Workshop on Sustainable Energy Systems, Smart Infrastructures, and Smart Environments (SESSISE)
	5th International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (MASGES)
	IEEE Technologies for Smart Cities (TENSYMP)
2016	3rd International Workshop on Computational Energy Management in Smart Grids (CEMiSG)
	3rd International Conference on Big Data and Smart City
	IEEE EPEC
	IEEE CPE PowerEng
	IEEE INDIN Track Technologies and Infrastructures
	IEEE ICIT Track Power Systems and the Smart Grid
	IEEE ETFA Track Information and Communication Technology in Energy Systems
	IEEE ISIE Track Smart Grids
	IEEEE WFCS
	4th International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (masges)
	IEEE Electric Power and Energy Conference (EPEC)
2015	IEEE ISIE Track Smart Grids and Renewable Energy
	EvoStar Track EvoEnergy
	SmartER Europe
	2nd International Workshop on Computational Energy Management in Smart Grids (CEMiSG)
	IEEE ISGT-LA: Innovative Smart Grids Technologies Latin America
	IEEE ETFA Track ICT in Energy Systems
	IEEE WFCS

	Energy Informatics
	3rd International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (masges)
	6th Symposium on Communications for Energy Systems (ComForEn)
	Workshop IT und Dienstleistungen fuer die Energiewende und Elektromobilitaet (IDEE)
	International Symposium on Smart Electric Distribution Systems and Technologies (EDST)
	IEEE SmartGridComm15 Symposium
2014	Doctoral Conference on Computing, Electrical and Industrial Systems (DocEIS)
	IEEE ISIE Track Control Systems & Applications
	IEEE WFCS
	SmartER Europe
	Multi-agent based Applications for Smart Grids and Sustainable Energy Systems (MASGES)
	International Workshop on Computational Energy Management in Smart Grids (CEMiSG)
	IEEE International Conference on Smart Grid Communications (SmartGridComm): Demand Response and Dynamic Pricing Symposium
	Workshop "Smart Grids" at the annual meeting of the German Informatics Society (GI)
	Energieinformatik PhD Congress
	Energieinformatik
	Federated Conference On Computer Science and Information Systems (FedCSIS)
	IEEE International Workshop on Intelligent Energy Systems (IWIES)
2013	EvoStar Track EvoEnergy
	DoCEIS - Doctoral Conference on Computing, Electrical and Industrial Systems
	IEEE ICIT Special Session on Industrial Electronics Technologies in Smart Grids
	Workshop on Multi-agent based Applications for Sustainable Energy Systems (part of PAAMS)
	WISES - Eleventh Workshop on Intelligent Solutions in Embedded Systems
	IEEE SEGE (Conference on Smart Energy Grid Engineering)
	GI INFORMATIK, Workshop Smart Grids
	Int. Conf. on Infocomm Technologies in Competitive Strategies ICT
2012	IEEE ISIE 2012 (Track "Industrial Informatics and Factory Automation")
	IEEE IECON 2012 (Track "Factory Automation and Industrial Informatics")
	IEEE IECON 2012 (Special Session "Building Automation Control and Management", Special Session "Energy & IT")
	IEEE WFCS 2012
	IEEE ETFA 2012 (Track "Industrial Communication Systems")
	WISES 2012 - Tenth Workshop on Intelligent Solutions in Embedded Systems
	IEEE SIES 2012 - 7th International Symposium on Industrial Embedded Systems

	Federated Conference on Computer Science and Information Systems (FedCSIS) 2012
	IEEE SmartGridComm 2012 (Symposium on Smart Grid Services and Management Models)
	BITA 2012 (Best IT Innovation Awards 2012, Pakistan)
2011	IEEE SSST 2011 (43rd IEEE Southeastern Symposium on System Theory)
	IEEE IECON 2011 Track Factory Automation and Industrial Informatics
	IEEE ICIEA2011 Track Network and Communication
	IEEE SIES 2011
	IEEE ICIT 2011
	WISES 2011 - Ninth Workshop on Intelligent Solutions in Embedded Systems
	IEEE ICIEA 2011 (Track "Networks and Communication")
	IEEE ETFA 2011 (Track "Industrial Communication Systems track" and "work in progress" section)
	CODS11 - 5th International Conference on Complex Distributed Systems
	EPQU11 - 11th International Conference on Electrical Power Quality and Utilization
2010	IEEE WFCS 2010
	WISES 2010
	IEEE ETFA 2010
	IISE 2010
	IEEE SIES 2010
	International Conference on Infocomm Technologies in Competitive Strategies (ICT) 2010
	International Conference on IT Security (ITS) 2010
	IEEE ICIEA 2010 (Track "Networks and Communication")
2009	IFAC FET 2009
	IEEE IISE 2009
	IEEE ETFA 2009
	WISES 2009
	IEEE SIES09
	IEEE IECON 2009 (Special Session "Energy and IT")
	IEEE ICIEA 2009 (Track "Networks and Communication")
2008	4th IET International Conference on Intelligent Environments (IE08)
	IEEE WFCS 2008
	IEEE INDIN 2008
	IEEE SIES 2008
	SIWN/IISE 2008
	IEEE WCICA 2008
	ENICS 2008
	IEEE IECON 2008 (Special Session "Building Automation Control and Management")
	IEEE INDIN 2008 (Track "Buildings, Automation and Networks" and Special Session "IT & Energy")
2007	IFAC FET 2007
	IEEE AFRICON 2007
	WISES 2007
	IEEE ETFA 2007 (Track "Information Technology in Automation")

	3rd IET International Conference on Intelligent Environments (IE07)
	IEEE SIES 2007
2006	2nd IEE International Conference on Intelligent Environments (IE06)
	WISES 2006
	IEEE INDIN 2006 (Track "Ubiquitous Sensors/actuators network" and Special Session "IT & Energy")
2005	IEEE ETFA 2005
2004	IEEE AFRICON 2004
2003	WISES 2003

Reviewing and editorial work

2018 - now	Member of Advisory Board of MDPI SCI
2019 - 2021	Editor in Chief of IEEE Industrial Electronics Magazine
2018 - now	Member of Editorial Board Journal on Automatic Systems and Control (MDPI)
	Associate Editor of the Industrial Electronics Magazine
2017 - now	Member of Editorial Board Journal on Energy Informatics (Springer)
2016	Guest Editor of IET Generation, Transmission & Distribution
2014 - now	Member of publication board of the IEEE Industrial Electronics Society
	Member of Editorial Board Journal on Intelligent Industrial Systems (Springer)
2011 - now	Associate Editor IEEE Transactions on Industrial Informatics (IEEE TII)
	Member Editorial Board of Technical Journal UET Taxila, Pakistan
	Reviewer IEEE Transactions on Smart Grids
2010	Guest Editor of EURASIP Journal on Embedded Systems, Special Issue on, Networked Embedded Systems for Energy Management and Buildings
2010 - now	Member of Editorial Board International Journal on Intelligent Control and Automation (ICA)
	Member of Editorial Board Journal of Nano Energy and Power Research (JNEPR, American Scientific Publishers)
2009	Guest Editor IEEE Transactions on Industrial Electronics (IEEE TIE, Special Section on Renewable Energy)
	Reviewer Control Engineering Practice
2009 - now	Associate Editor International Journal of Electrical Energy Systems (IJEESS)
2008 - 2009	Guest Editor IEEE Transactions on Industrial Electronics (IEEE TIE, Special Section on Building Automation Control and Management)
	Associate Editor IEEE Industrial Electronics Handbook
2007	Reviewer IEEE Transactions on Instrumentation and Measurement
2007 - 2015	Associate Editor OVE e&i
2005 - now	Member of OVE/OGMA board for PhD and MSc theses prices
	Reviewer IEEE Transactions on Industrial Informatics (IEEE TII) and Transactions on Industrial Electronics (IEEE TIE)
	Reviewer EURASIP Journal on Embedded Systems (EURASIP JES)
2003 - now	Editorial Board IJPES (International Journal of Power and Energy Systems, ACTA Press/IASTED)

Standardization, industrial and academic committee work

2019 - now	IEEE Benelux: PES/PELS/IAS Chapter Chair
2018 - now	IEEE Smart Grid: steering committee member
2018 - now	Stichting 3e: Member of the board
2018 - now	CIGRE Nederlands: Member of the board
2017 - now	IEEE IES: Financial Advisor
2017 - now	European Network for Cyber Security (ENCS): Chair Academic Advisory Board
2016 - now	AMS Amsterdam Metropolitan Solutions: Principal Investigator
2014 - now	IEEE IES conference committee: member
	IEEE IES publication committee: member
2014 - 2017	IEEE Austria Section: chair
2014 - 2017	IEEE IES Technical Committee on Smart Grids: chair
2013 - now	IEEE IES membership development committee: member
	IEEE IES Representative for IEEE Transactions on Smart Grids
2012 - now	IEEE Industrial Electronics Society Strategy Committee: Member
	Funding Proposal Reviewer for Foundation for Science and Technology (FCT), Portugal
	Peer Reviewer for National Agency for the Evaluation of Universities and Research Institutes (ANVUR), Italy
2012 - 2014	IEEE IES Technical Committee on Smart Grids: secretary
2011 - now	IEEE System Council Technical Committee on Security and Privacy in Complex Information Systems: Member
2010 - 2014	IEEE Austria Section: Secretary
	Expert in the working group "Smart Buildings" of the high-level advisory group "ICT for Energy Efficiency" of the European Union
2006 - 2007	IEEE Austria Section: Academic Relation Officer
2003 - 2005	LNO (LonWorks User Group Germany) AK II (working group "inter-industry"): convener
2002 - 2016	ON (Austrian Standards) FA 175 and FA 175.10: member
2006 - 2008	OVE OGMA: member of the board
2007 - now	IEEE Industrial Electronics Society: AdCom member (elected)
2006 - now	IEEE senior member
2005 - 2011	IEEE IES Technical Committee on Building Automation, Control and Management: chair (secretary until 2009)
2005 - 2008	IEEE IES Technical Committee on Factory Automation, Subcommittee on Energy and Automation: Chair
2003 - 2016	CEN/TC247 (Building automation, controls and building management): head of Austrian delegation (substitute until 2007)
2005 - 2016	CLC/TC205 (Home and Building Electronic Systems): head of Austrian delegation
2003 - 2016	ISO/TC205 (Building Environment Design): head of Austrian delegation
1999 - 2014	OVE OGMA (Austrian Society of Automation and Measurement): FA IT EG member

Academic Committees and Activities

2018	TU Eindhoven, Netherlands: Member appointment committee for a professorship "Intelligent Energy Systems"
2018	TU Delft, Netherlands: Member of appointment committee for Tenure Track "Statistics"
2017	University of Lappeenranta, Finland: Reviewer for professorship appointment committee "IoT in Energy Systems"
2017	TU Delft: Member appointment committee for Tenure Track "DC Systems"
2017	Aalto University, Finland: Reviewer for Tenure Track position "Renewable energy in electrical power systems"
2016	TU Delft: Member appointment committee for Tenure Track "Electromechanics"
2016 - 2017	TU Delft, Netherlands: Head of Appointment committee for a professorship "Wind Energy Systems"
2016	TU Eindhoven, Netherlands: Member appointment committee for a professorship "Electrical Energy Systems"
2015	TU Delft: Member appointment committee for a professorship "DC Systems and Storage"
2015	Tallinn University of Technology, Estonia: member of the Quality Assessment of Study Programme Group
2013	Vienna University of Technology, Austria: Member curriculum development
2009	Kadir Has University, Istanbul, Turkey: Member curriculum development
2002 - 2007	Vienna University of Technology, Austria: Organizer promotional activities for student recruitment (presentation in schools, etc.) Vienna University of Technology, Austria: Member mid-level faculty meeting
2004 - 2005	Vienna University of Technology, Austria: Member appointment committee for a professorship "Embedded Systems"

Publication List

Peer reviewed articles

[1] M. de Jong, G. Papaefthymiou, and P. Palensky. "A Framework for Incorporation of Infeed Uncertainty in Power System Risk-Based Security Assessment". In: *IEEE Transactions on Power Systems* 33.1 (2018), pp. 613–621. ISSN: 0885-8950.

[2] K. Pan, A. Teixeira, M. Cvetkovic, and P. Palensky. "Cyber Risk Analysis of Combined Data Attacks Against Power System State Estimation". In: *IEEE Transactions on Smart Grid* PP.99 (2018), pp. 1–1. ISSN: 1949-3053.

[3] C. Steinbrink, A. A. van der Meer, M. Cvetkovic, D. Babazadeh, S. Rohjans, P. Palensky, and S. Lehnhoff. "Smart grid co-simulation with MOSAIK and HLA: a comparison study". In: *Computer Science - Research and Development* 33.1 (2018), pp. 135–143. ISSN: 1865-2034.

[4] Muhammad Usman Awais, Milos Cvetkovic, and Peter Palensky. "Hybrid Simulation Using Implicit Solver Coupling with HLA and FMI". In: *International Journal of Modeling, Simulation, and Scientific Computing* 8.4 (2017).

[5] P. Palensky, A. A. Van Der Meer, C. D. Lopez, A. Joseph, and K. Pan. "Cosimulation of Intelligent Power Systems: Fundamentals, Software Architecture, Numerics, and Coupling". In: *IEEE Industrial Electronics Magazine* 11.1 (2017), pp. 34–50. ISSN: 1932-4529.

[6] Peter Palensky, Arjen A. van der Meer, Claudio David Lopez, Arun Joseph, and Kaikai Pan. "Applied Cosimulation of intelligent power systems: Implementation, usage, and examples." In: *IEEE Industrial Electronics Magazine* 11.2 (June 2017).

[7] Jose Luis Rueda Torres, Deesh Dileep, Sander Franke, and Peter Palensky. "Hybrid intervention scheme based optimization algorithm for real-time management of reactive power resources". In: *at - Automatisierungstechnik* 65.11 (Nov. 2017), pp. 737–748.

[8] X. Wang, V. Dinavahi, S. G. Abhyankar, A. Monti, P. Palensky, Y. Zhang, J. Wen, and O. Faruque. "Guest Editorial - Special Issue on Interfacing Techniques for Simulation Tools in Smart Grid". In: *IET Generation, Transmission Distribution* 11.12 (2017), pp. 2965–2967. ISSN: 1751-8687.

[9] S. Khan, W. Gawlik, and P. Palensky. "Reserve Capability Assessment Considering Correlated Uncertainty in Microgrid". In: *IEEE Transactions on Sustainable Energy* 7.2 (2016), pp. 637–646. ISSN: 1949-3029.

[10] Aadil Latif, Wolfgang Gawlik, and Peter Palensky. "Quantification and Mitigation of Unfairness in Active Power Curtailment of Rooftop Photovoltaic Systems Using Sensitivity Based Coordinated Control". In: *Energies* 9.6 (2016), p. 436. ISSN: 1996-1073.

[11] S. C. Mueller et al. "Interfacing Power System and ICT Simulators: Challenges, State-of-the-Art, and Case Studies". In: *IEEE Transactions on Smart Grids* PP.99 (2016), pp. 1–1. ISSN: 1949-3053.

[12] Friedrich Praus, Wolfgang Kastner, and Peter Palensky. "Secure Control Applications in Smart Homes and Buildings". In: *Journal of Universal Computer Science* 22.9 (Sept. 1, 2016), pp. 1249–1273.

[13] Mohsin Shahzad, Ishtiaq Ahmad, Wolfgang Gawlik, and Peter Palensky. "Load Concentration Factor Based Analytical Method for Optimal Placement of Multiple Distribution Generators for Loss Minimization and Voltage Profile Improvement". In: *Energies* 9.4 (2016), p. 287. ISSN: 1996-1073.

[14] Thomas Strasser et al. "Towards holistic power distribution system validation and testing—an overview and discussion of different possibilities". In: *e & i Elektrotechnik und Informationstechnik* (2016), pp. 1–7. ISSN: 1613-7620.

[15] Ikram Ullah, Wolfgang Gawlik, and Peter Palensky. "Analysis of Power Network for Line Reactance Variation to Improve Total Transmission Capacity". In: *Energies* 9.936 (2016).

[16] Hadrien Bosetti, Sohail Khan, Hamid Aghaie, and Peter Palensky. "Survey, Illustrations and Limits of Game Theory for Cyber-Physical Energy Systems". In: *at - Automatisierungstechnik* 62.5 (Apr. 2014), pp. 375–384.

[17] Dietmar Bruckner, Tharam Dillon, Shiyan Hu, Peter Palensky, and Tongquan Wei. "Guest Editorial Special Section on Building Automation, Smart Homes, and Communities". In: *IEEE Transactions on Industrial Informatics* 10.1 (Jan. 2014), pp. 676–679.

[18] Aadil Latif and Peter Palensky. "Economic Dispatch Using Modified Bat Algorithm". In: *Algorithms* 7.3 (2014), pp. 328–338. ISSN: 1999-4893.

[19] Thomas Strasser, Matthias Stifter, Filip Andren, and Peter Palensky. "Co-Simulation Training Platform for Smart Grids". In: *IEEE Transactions on Power Systems* 29.4 (2014), pp. 1989–1997.

[20] E. Widl, P. Palensky, P. Siano, and C. Rehtanz. "Guest Editorial Modeling, Simulation, and Application of Cyber-Physical Energy Systems". In: *Industrial Informatics, IEEE Transactions on* 10.4 (2014), pp. 2244–2246. ISSN: 1551-3203.

[21] Dietmar Bruckner, Dietmar Dietrich, Heimo Zeilinger, Daniela Kowarik, Peter Palensky, Klaus Doblhammer, Tobias Deutsch, and Georg Fodor. "ARS: Eine technische Anwendung von psychoanalytischen Grundprinzipien fuer die Robotik und Automatisierungstechnik". In: *Psychoanalyse im Widerspruch* 50 (2013), pp. 57–116.

[22] Carlo Cecati, Gerhard Hancke, Peter Palensky, Pierluigi Siano, and Xinghuo Yu. "Guest Editorial Special Section on Information Technologies in Smart Grids". In: *IEEE Transactions on Industrial Informatics* 9.3 (2013), pp. 1380–1383.

[23] Peter Palensky and Friederich Kupzog. "Smart Grids". In: *Annual Reviews of Environment and Resources* 38 (Nov. 2013), pp. 201–226.

[24] Peter Palensky, Edmund Widl, and Atiyah Elsheikh. "Simulating cyber-physical energy systems: challenges, tools and methods". In: *IEEE Transactions on Systems, Man, and Cybernetics* 44.3 (2013), pp. 318–326.

[25] Peter Palensky, Edmund Widl, Atiyah Elsheikh, and Matthias Stifter. "Modeling Intelligent Energy Systems: Co-Simulation Platform for Validating Flexible-Demand EV Charging Management". In: *IEEE Transactions on Smart Grids* 4.4 (Dec. 2013), pp. 1939–1947.

[26] T. Strasser, F. Andren, F. Lehfuss, M. Stifter, and P. Palensky. "Online Reconfigurable Control Software for IEDs". In: *IEEE Transactions on Industrial Informatics* 9.3 (Aug. 2013), pp. 1455–1465. ISSN: 1551-3203.

[27] Felix Iglesias Vazquez and Peter Palensky. "Profile-based Control for Central Domestic Hot Water Distribution". In: *IEEE Transactions on Industrial Informatics* 10.1 (Feb. 2013), pp. 697–705.

[28] Dietmar Dietrich, Peter Palensky, and Dorothee Dietrich. "Psychoanalyse und Computertechnik, eine Win-Win-Situation?" In: *psychosozial* 127 (2012).

[29] Olivier Pol, Peter Palensky, Christoph Kuh, Klemens Leutgoeb, Jessen Page, and Gerhard Zucker. "Integration of centralised energy monitoring specifications into the planning process of a new urban development area: a step towards smart cities". In: *e&i (Elektrotechnik & Informationstechnik)* 129.4 (2012), pp. 258–264.

[30] Felix Iglesias Vazques, Peter Palensky, Sergio Cantos, and Friederich Kupzog. "Demand Side Management for Stand-Alone Hybrid Power Systems Based on Load Identification". In: *Energies* 5.11 (2012), pp. 4517–4532. ISSN: 1996-1073.

[31] Gerhard Zucker, Peter Palensky, Florian Judex, Christian Hettfleisch, Ralf-Roman Schmidt, and Daniele Basciotti. "Energy Aware Building Automation Enables Smart Grid-friendly Buildings". In: *e&i (Elektrotechnik & Informationstechnik)* 129.4 (2012), pp. 271–277.

[32] M. Liserre et al. "Guest Editorial Renewable Energy Systems". In: *IEEE Transactions on Industrial Electronics* 58.1 (Jan. 2011), pp. 2 –8. ISSN: 0278-0046.

[33] Peter Palensky and Dietmar Dietrich. "Demand Side Management: demand response, intelligent energy systems, and smart loads". In: *IEEE Transactions on Industrial Informatics* 7.3 (Aug. 2011), pp. 381–388.

[34] Dietmar Bruckner, Dietmar Dietrich, Gerhard Zucker, and Peter Palensky. "Guest Editorial Building Automation, Control and Management". In: *IEEE Transactions on Industrial Electronics* 57.11 (2010).

[35] Dietmar Dietrich, Dietmar Bruckner, Gerhard Zucker, and Peter Palensky. "Communication and Computation in Buildings: A Short Introduction and Overview". In: *IEEE Transactions on Industrial Electronics* 57.11 (2010).

[36] Christian Hettfleisch, Florian Dubisch, Stefan Ledinger, Gerhard Zucker, and Peter Palensky. "Energieeinsparpotentiale eines Passivhauses unter Beruecksichtigung von Wetterprognosen". In: *Bauphysik* 32.6 (2010).

[37] Michael Stadler, Friederich Kupzog, and Peter Palensky. "Distributed Energy Resource Allocation and Dispatch: an Economic and Technological Perception". In: *International Journal of Electronic Business Management* 5.4 (2007), pp. 59–73.

[38] Maksim Lobashov, Alexey Bratukhin, Thilo Sauter, Peter Palensky, and Dietmar Dietrich. "Vertical integration in distributed automation environment". In: *e&i (Elektrotechnik & Informationstechnik)* (May 2006), pp. 166–171.

[39] Peter Palensky, Stefan Soucek, Sandrine von Klot, and Dietmar Dietrich. "Netzwerke und Gebaeude". In: *e&i (Elektrotechnik & Informationstechnik)* (June 2006), pp. 1–10.

[40] Thilo Sauter, Albert Treytl, and Peter Palensky. "IT-Security in der Energie-Automatisierung". In: *e&i (Elektrotechnik & Informationstechnik)* (May 2005), pp. 178–182.

[41] Michael Stadler, Peter Palensky, Brigitte Lorenz, Manfred Weihs, and Charlotte Roesener. "Integral Resource Optimization Networks and their techno-economic constraints". In: *International Journal on Distributed Energy Systems* 1.4 (Oct. 2005). Technology & Science Publishers, Germany, pp. 299–320.

[42] Peter Palensky, Peter Roessler, and Dietmar Dietrich. "Heim- und Gebaeudeautomatisierung zur Effizienzsteigerung in Gebaeuden". In: *e&i (Elektrotechnik & Informationstechnik)* 120 (Apr. 2003), pp. 104–110.

[43] Peter Palensky, Thilo Sauter, and Christan Schwaiger. "Security and fieldbus systems - a contradiction?" In: *itti* 42 (May 2000), pp. 31–37.

[44] Thilo Sauter and Peter Palensky. "A closer look into Internet-fieldbus connectivity". In: *e&i (Elektrotechnik & Informationstechnik)* 117 (May 2000), pp. 314–318.

Edited books

[1] Peter Palensky, Milos Cvetkovic, and Tamas Keviczky, eds. *Intelligent Integrated Energy Systems - The PowerWeb Program at TU Delft*. Springer, Oct. 1, 2018. ISBN: 978-3-030-00057-8.

[2] Mihaela Ulieru, Peter Palensky, and Rene Doursat, eds. *IT Revolutions*. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST 1867-8211. Springer, 2009.

Edited conference proceedings

[1] Peter Palensky, ed. *39th Conference of the IEEE Industrial Electronics Society IECON 2013*. IEEE. 2013.

[2] Peter Palensky, ed. *9th IEEE AFRICON*. 9th IEEE Conference on Industrial Informatics, Sept 23-25 2009, Nairobi, Kenya 9781424439188. IEEE, 2009.

[3] Peter Palensky, ed. *5th IEEE Conference on Industrial Informatics*. 5th IEEE Conference on Industrial Informatics July 23-27 2007, Vienna, Austria. IEEE, 2007.

[4] Peter Palensky, ed. *Intelligente Gebaeude und Wohnungen*. Intelligente Gebaeude und Wohnungen - die Praxis: Tagungsband der 6. IGW Konferenz 3851330390. OVE, 2006.

[5] Peter Palensky and Dietmar Dietrich, eds. *Intelligente Gebaeude und Wohnungen*. IGW+ planen, bauen, betreiben,... Tagungsband der 5. IGW Konferenz am 31.5. 2005 3851330374. OVE, 2005.

Book chapters

[1] Claudio David Lopez, Milos Cvetkovic, Arjen A. van der Meer, and Peter Palensky. "Co-simulation of Intelligent Power Systems". In: *Intelligent Integrated Energy Systems - The PowerWeb Program at TU Delft*. Ed. by Peter Palensky, Milos Cvetkovic, and Tamas Keviczky. Springer, Oct. 1, 2018, pp. 99–122. ISBN: 987-3-030-00056-1.

[2] Matija Naglic, Arun Joseph, Kaikai Pan, Marjan Popov, Mart van der Meijden, and Peter Palensky. "Grid awareness under normal conditions and cyber-threats". In: *Intelligent Integrated Energy Systems - The PowerWeb Program at TU Delft*. Ed. by Peter Palensky, Milos Cvetkovic, and Tamas Keviczky. Springer, Oct. 1, 2018, pp. 55–78. ISBN: 987-3-030-00056-1.

[3] Ntountounakis Manolis, Ishtiaq Ahmad, Kanellos Fotios, Peter Palensky, and Wolfgang Gawlik. "MAS Based Demand Response Application in Port City Using Reefers". In: *Highlights of Practical Applications of Cyber-Physical Multi-Agent Systems: International Workshops of PAAMS 2017, Porto, Portugal, June 21-23, 2017, Proceedings*. Ed. by Javier Bajo et al. Cham: Springer International Publishing, 2017, pp. 361–370. ISBN: 978-3-319-60285-1.

[4] Wolfgang Loibl, Brigitte Bach, Gerhard Zucker, Giorgio Agugiaro, Peter Palensky, Ralf-Roman Schmidt, Daniele Basciotti, and Helfried Brunner. "Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities". In: ed. by Andrea Vesco and Francesco Ferrero. IGI Global, 2015. Chap. ICT-Based Solutions Supporting Energy Systems for Smart Cities, pp. 137–165.

[5] Peter Palensky, Friederich Kupzog, Thomas Strasser, Matthias Stifter, and Thomas Leber. "The Industrial Communication Technology Handbook". In: ed. by R. Zurawski. CRC Press, 2015. Chap. 61., Communication Protocols for Power System Automation, pp. 61–1 –61–20.

[6] Hamid Aghaie, Peter Palensky, and Reinhard Haas. "Analyzing Effective Competition In Energy Market Using Multi Agent Modelling". In: vol. EnInnov2014 - 13. Symposium Energieinnovation. TU Graz, 2014, pp. 176–177.

[7] Friederich Kupzog and Peter Palensky. "The Industrial Electronics Handbook - Power Electronics and Motor Drives". In: *B. Wilamowski (Ed.): The Power Electronics and Motor Drives Handbook*. Ed. by Bogdan Wilamowski and Dave Irwin. 9781439802854. CRC Press, 2011. Chap. Smart Energy Distribution.

[8] Peter Palensky. "The Industrial Electronics Handbook, Second Edition". In: *B. Wilamowski (Ed.): The Industrial Electronics Handbook*. Ed. by Bogdan Wilamowski and Dave Irwin. 9781439802892. CRC Press, 2011. Chap. 66 Trends and Challenges for Industrial Communication Systems.

[9] Peter Palensky. "Das ARS-Projekt - Wahrnehmung, Psychoanalyse und Technik". In: *Rini Tandon (Hrsg.): Der visuelle Entzug*. 3852111277. Universitaet fuer angewandte Kunst Wien, 2006, pp. 79–86.

[10] Peter Palensky. "Die Gebaeudeautomation und ihre Standards". In: *TGA Planung Jahrbuch 2005*. 1019-4118. WEKA Verlag Wien, 2006, pp. 44–46.

[11] Peter Palensky. "The JEVis Service Platform - Distributed Energy Data Acquisition and Management". In: *Richard Zurawski (Ed.): The Industrial Information Technology Handbook*. 0849319854. CRC Press, Boca Raton, Florida, 2005, pp. 111–1–111–11.

[12] Peter Palensky. "EIB Installation Bus System". In: *Sauter, Dietrich, Kastner (Eds.): EIB Installation Bus System*. Ed. by Thilo Sauter, Dietmar Dietrich, and Wolfgang Kastner. Publicis Corporate Publishing, Erlangen, 2001. Chap. Interoperability, pp. 264–269.

[13] Peter Palensky. "EIB Installation Bus System". In: *Sauter, Dietrich, Kastner (Eds.): EIB Installation Bus System*. Ed. by Thilo Sauter, Dietmar Dietrich, and Wolfgang Kastner. 3895781574. Publicis Corporate Publishing, Erlangen, 2001. Chap. Intelligent Software Agents, pp. 298–300.

[14] Peter Palensky. "Open Control Networks". In: ed. by Dietmar Loy, Dietmar Dietrich, and Hans-Joerg Schweinzer. Kluwer Academic Publishers, 2001. Chap. Interoperability, pp. 231–237.

[15] Peter Palensky. "Lon-Technologie". In: *Dietrich, Loy, Schweinzer (Hrsg.): LON-Technologie*. Ed. by Dietmar Dietrich, Dietmar Loy, and Hans-Joerg Schweinzer. Huethig Verlag Heidelberg, 1999. Chap. Interoperabilitaet, pp. 263–279.

[16] Peter Palensky. "On Interoperability and Intelligent Software Agents for Field Area Networks". In: *D. Dietrich, P. Neumann and H. Schweinzer (Eds.): Fieldbus Technology*. 321183394 3. Springer, 1999, pp. 319–325.

[17] Peter Palensky and Ratko Posta. "Demand Side Management in private Homes using LonWorks". In: *D. Dietrich and H. Schweinzer (Eds.): Feldbustechnik in Forschung, Entwicklung und Anwendung*. Springer, 1997, pp. 130–137.

Reviewed conference papers

[1] Rishabh Bhandia, Jose Chavez, Miloš Cvetković, and Peter Palensky. "High Impedance Fault Detection in Real-Time and Evaluation using Hardware-in-Loop Testing". In: *Proceedings of IEEE IECON 2018*. Oct. 22, 2018.

[2] Arun Joseph, Miloš Cvetković, and Peter Palensky. "Prediction of Short-Term Voltage Instability Using a Digital Faster Than Real-Time Replica". In: *Proceedings of IEEE IECON 2018*. Oct. 22, 2018.

[3] Arjen A. van der Meer, Cornelius Steinbrink, Kai Heussen, Daniel E. Morales Bondy, Merkebu Z. Degefa, Filip Proestl Andren, Thomas I. Strasser, Sebastian Lehnhoff, and Peter Palensky. "Design of Experiments aided Holistic Testing of Cyber-Physical Energy Systems". In: *Proceedings of 2018 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems*. 2018.

[4] Jorge Mola-Jimenez, Jose L. Rueda, Arcadio Perilla, Wang Da, Peter Palensky, and Mart van der Meijden. "PowerFactory-Python based assessment of frequency and transient stability in power systems dominated by power electronic interfaced generation". In: *Proceedings of 2018 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems*. 2018.

[5] Milos Cvetkovic, Harish Krishnappa, Claudio David Lopez, Rishabh Bhandia, Jose Rueda Torres, and Peter Palensky. "Co-simulation and Dynamic Model Exchange with Consideration for Wind Projects". In: *Proceedings of 16th Wind Integration Workshop, 25-27 October 2017, Berlin, Germany*. 2017.

[6] Milos Cvetkovic, Kaikai Pan, Claudio David Lopez, Rishabh Bhandia, and Peter Palensky. "Co-simulation Aspects for Energy Systems with High Penetration of Distributed Energy Resources". In: *Proceedings of 2017 AEIT International Annual Conference, September 20-22, 2017, Cagliari, Italy*. Sept. 2017.

[7] Abdulrasaq Gbadamosi, José L. Rueda, Da Wang, and Peter Palensky. "Application of mean-variance mapping optimization for parameter identification in real-time digital simulation". In: *Proceedings of the 2017 Federated Conference on Computer Science and Information Systems*. Ed. by M. Ganzha, L. Maciaszek, and M. Paprzycki. Vol. 11. Annals of Computer Science and Information Systems. IEEE, 2017, pp. 11–16.

[8] P. Kotsampopoulos et al. "Validating Intelligent Power and Energy Systems - A Discussion of Educational Needs". In: *Proceedings of 8th International Conference on Industrial Applications of Holonic and Multi-Agent Systems (HoloMAS 2017)*. Lecture notes in Artificial Intelligence (LNAI). Springer, 2017.

[9] Aadil Latif, Peter Palensky, and Wolfgang Gawlik. "Zone based Optimal Reactive Power Dispatch in Smart Distribution Network using Distributed Generation". In: *Proceedings of the 5th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES)*. 2017.

[10] C. D. Lopezp, A. A. van der Meer, M. Cvetkovic, and P. Palensky. "A variable-rate co-simulation environment for the dynamic analysis of multi-area power systems". In: *2017 IEEE Manchester PowerTech*. 2017, pp. 1–6.

[11] Mingxiao Ma, Andre Teixeira, Jan van den Berg, and Peter Palensky. "Voltage Control in Distributed Generation under Measurement Falsification Attacks". In: *Proceedings of 20th IFAC World Congress*. 2017.

[12] A. A. van der Meer et al. "Cyber-Physical Energy Systems Modeling, Test Specification, and Co-Simulation Based Testing". In: *Proceedings of the 5th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES)*. 2017.

[13] Kaikai Pan, Andre Teixeira, Milos Cvetkovic, and Peter Palensky. "Data Attacks against Power System State Estimation: Limited Adversarial Knowledge vs Limited Attack Resources". In: *Proceedings of IEEE Conference on Industrial Electronics IECON 2017*. 2017.

[14] Kaikai Pan, Andre Teixeira, Claudio David Lopez, and Peter Palensky. "Co-simulation for Cyber Security Analysis: Data Attacks against Energy Management System". In: *Proceedings of 2017 IEEE international Conference on Smart Grid Communications (SmartGridComm)*. 2017.

[15] Jose Rueda, Aimilia Theologi, Mario Ndreko, Istvan Erlich, and Peter Palensky. "Metaheuristic Approach for Online Optimal Reactive Power Management in Near-Shore Wind Power Plants". In: *Proceedings of 2017 IEEE PES Innovative Smart Grid Technologies Conference - Latin America (ISGT Latin America). Quito, Ecuador*. 2017.

[16] C. Steinbrink et al. "Simulation-based Validation of Smart Grids - Status Quo and Future Research Trends". In: *Proceedings of 8th International Conference on Industrial Applications of Holonic and Multi-Agent Systems (HoloMAS 2017)*. Lecture notes in Artificial Intelligence (LNAI). Springer, 2017.

[17] T. I. Strasser et al. "An Integrated Research Infrastructure for Validating Cyber-Physical Energy Systems". In: *Proceedings of 8th International Conference on Industrial Applications of Holonic and Multi-Agent Systems (HoloMAS 2017)*. Lecture notes in Artificial Intelligence (LNAI). Springer, 2017.

[18] Rishabh Bhandia, Arjen van der Meer, and Peter Palensky. "Fault Anticipation in Distribution Networks by RTDS". In: *RTDS European Users Group Meeting*. Glasgow, 2016.

[19] Digvijay Gusain, Jose L. Rueda, Jens C. Boemer, and Peter Palensky. "Identification of Dynamic Equivalents of Active Distribution Networks through MVMO". In: *Proceedings of IFAC and CIGRE/CIRED Workshop on Control of Transmission and Distribution Smart Grids*. Oct. 2016.

[20] J. H. Kazmi, A. Latif, I. Ahmad, P. Palensky, and W. Gawlik. "A flexible smart grid co-simulation environment for cyber-physical interdependence analysis". In: *2016 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES)*. 2016, pp. 1–6.

[21] S. Khan, M. Shahzad, U. Habib, W. Gawlik, and P. Palensky. "Stochastic battery model for aggregation of thermostatically controlled loads". In: *2016 IEEE International Conference on Industrial Technology (ICIT)*. 2016, pp. 570–575.

[22] A. Latif, S. Khan, P. Palensky, and W. Gawlik. "Co-simulation based platform for thermostatically controlled loads as a frequency reserve". In: *2016 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES)*. 2016, pp. 1–6.

[23] Aadil Latif, Ishtiaq Ahmad, Wolfgang Gawlik, and Peter Palensky. "Multi-Objective Reactive Power Dispatch in Distribution Networks using Modified Bat Algorithm". In: *Proceedings of IEEE Green Energy and Systems Conference (IGESC 2016)*. 2016.

[24] Kaikai Pan, Andre Teixeira, Milos Cvetkovic, and Peter Palensky. "Combined Data Integrity and Availability Attacks on State Estimation in Cyber-Physical Power Grids". In: *Proceedings of 7th IEEE International Conference on Smart Grid Communications (SmartGridComm 2016)*. Nov. 2016.

[25] Friedrich Praus, Wolfgang Kastner, and Peter Palensky. "Software security requirements in building automation". In: *Sicherheit 2016: Sicherheit, Schutz und Zuverlässigkeit, Beiträge der 8. Jahrestagung des Fachbereichs Sicherheit der Gesellschaft für Informatik e.V. (GI)*. Ed. by Michael Meier, Delphine Reinhardt, and Steffen Wendzel. 978-3-88579-650-3. Lecture Notes in Informatics (LNI). 2016, pp. 217–228.

[26] M. Shahzad, I. Ahmad, W. Gawlik, and P. Palensky. "Active power loss minimization in radial distribution networks with analytical method of simultaneous optimal DG sizing". In: *2016 IEEE International Conference on Industrial Technology (ICIT)*. 2016, pp. 470–475.

[27] M. Shahzad, I. Ahmad, W. Gawlik, and P. Palensky. "Voltage profile improvement in radial distribution networks with analytical method of simultaneous optimal DG sizing". In: *2016 18th Mediterranean Electrotechnical Conference (MELECON)*. 2016, pp. 1–6.

[28] Mohsin Shahzad, Wolfgang Gawlik, and Peter Palensky. "Voltage Quality Index Based Method to Quantify the Advantages of Optimal DG Placement". In: *Proceedings of 14th International Conference on Frontiers of Information Technology (FIT'16)*. 2016.

[29] Ishtiaq Ahmad, Jawad Haider Kazmi, Mohsin Shahzad, and Peter Palensky. "Co-Simulation Framework based on Power System, AI and Communication Tools for Evaluating Smart Grid Applications". In: *Proceedings of IEEE PES Innovative Smart Grid Technologies 2015 Asian Conference*. 2015.

[30] Ishtiaq Ahmad, Peter Palensky, and Wolfgang Gawlik. "Multi-Agent System based Voltage Support by Distributed Generation in Smart Distribution Network". In: *Proceedings of 2015 International Symposium on Smart Electric Distribution Systems and Technologies (EDST)*. 2015.

[31] Muhammad Usman Awais, Wolfgang Gawlik, Gregor De-Cillia, and Peter Palensky. "Hybrid Simulation Using SAHISim Framework: a hybrid distributed simulation framework using waveform relaxation method implemented over the HLA and the functional mock-up interface". In: *Proceedings of Eighth EAI International Conference on Simulation Tools and Techniques, Athens*. 2015.

[32] M. Heiss, A. Oertl, M. Sturm, P. Palensky, S. Vielguth, and F. Nadler. "Platforms for industrial cyber-physical systems integration: contradicting requirements as drivers for innovation". In: *Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES), 2015 Workshop on*. 2015, pp. 1–8.

[33] Tomoya Imanishi, Rajitha Tennekoon, Peter Palensky, and Hiroaki Nishi. "Enhanced building thermal model by using CO2 based occupancy data". In: *Proceedings of IEEE IECON 2015*. 2015.

[34] Aadil Latif, Mohsin Shahzad, Peter Palensky, and Wolfgang Gawlik. "An alternate PowerFactory Matlab coupling approach". In: *Smart Electric Distribution Systems and Technologies (EDST), 2015 International Symposium on*. IEEE. 2015, pp. 486–491.

[35] Peter Palensky. "Co-Simulation of Energy Systems". In: *1st Symposium on Modelling and Simulation Challenges for Future Sustainable Energy Systems, Delft, 26.6.2015*. 2015.

[36] Florian Schloegl, Sebastian Rohjans, Sebastian Lehnhoff, Jorge Velasquez, Cornelius Steinbrink, and Peter Palensky. "Towards a Classification Scheme for Co-Simulation Approaches in Energy Systems". In: *Proceedings of 2015 International Symposium on Smart Electric Distribution Systems and Technologies (EDST)*. 2015.

[37] Toshichika Shiobara, Peter Palensky, and Hiroaki Nishi. "Effective Metering Data Aggregation for Smart Grid Communication Infrastructure". In: *Proceedings of IEEE IECON 2015*. 2015.

[38] Edmund Widl, Florian Judex, Katharina Eder, and Peter Palensky. "FMI-based co-simulation of hybrid closed-loop control system models". In: *Complex Systems Engineering (ICCSE), 2015 International Conference on*. 2015, pp. 1–6.

[39] Hamid Aghaie, Peter Palensky, and Reinhard Haas. "Model-based Analysis of the Impact of Effective Competition on Supply Security in Energy Market". In: *Proceeedings of 11th International Conference on the European Energy Market EEM14*. 2014.

[40] I. Ahmad, M. Shahzad, and P. Palensky. "Optimal PID control of Magnetic Levitation System using Genetic Algorithm". In: *Energy Conference (ENERGYCON), 2014 IEEE International*. 2014, pp. 1429–1433.

[41] S. Khan, H. Bosetti, P. Palensky, and W. Gawlik. "A Replicator Dynamics method for the Unit Commitment problem". In: *Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES), 2014 Workshop on*. 2014, pp. 1–4.

[42] N. Ouhajjou, W. Loibl, P. Palensky, A. Anjomshoaa, S. Fenz, and A.M. Tjoa. "Robustness against data availability problems in urban energy planning support software". In: *Research Challenges in Information Science (RCIS), 2014 IEEE Eighth International Conference on*. 2014, pp. 1–2.

[43] P. Palensky, E. Widl, M. Stifter, and A. Elsheikh. "Modeling intelligent energy systems: Co-Simulation platform for validating flexible-demand EV charging management". In: *PES General Meeting — Conference Exposition, 2014 IEEE*. 2014, pp. 1–1.

[44] Mohsin Shahzad, Ikram Ullah, Peter Palensky, and Wolfgang Gawlik. "Analytical approach for simultaneous optimal sizing and placement of multiple Distributed Generators in primary distribution networks". In: *Industrial Electronics (ISIE), 2014 IEEE 23rd International Symposium on*. IEEE. 2014, pp. 2554–2559.

[45] Muhammad Usman Awais, Wolfgang Mueller, Atiyah Elsheikh, Peter Palensky, and Edmund Widl. "Using the HLA for distributed continuous simulations". In: *Proceedings of the 8th EUROSIM Congress on Modelling and Simulation*. 2013.

[46] Muhammad Usman Awais, Peter Palensky, Atiyah Elsheikh, Edmund Widl, and Matthias Stifter. "The High Level Architecture RTI as a master to the Functional Mock-up Interface components". In: *Proceeedings of International Conference on Computing, Networking and Communications*. 2013.

[47] Muhammad Usman Awais, Peter Palensky, Wolfgang Mueller, Edmund Widl, and Atiyah Elsheikh. "Distributed Hybrid Simulation Using the HLA and the Functional Mock-up Interface". In: *Proceedings of the 39th IEEE Conference on Industrial Electronics IECON 2013*. 2013.

[48] Atiyah Elsheikh, Muhammed Usman Awais, Edmund Widl, and Peter Palensky. "Modelica-Enabled Rapid Prototyping of Cyber-Physical Energy Systems Via The Functional Mockup Interface". In: *Proceedings of the 2013 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems*. 2013.

[49] Atiyah Elsheikh, Edmund Widl, Peter Pensky, Florian Dubisch, Markus Brychta, Daniele Basciotti, and Wolfgang Mueller. "Modelica-enabled rapid prototyping via TRNSYS". In: *Proceedings of Building Simulation 2013*. 2013.

[50] Sohail Khan, Mohsin Shahzad, Peter Palensky, and Khurram Jahangir. "Dynamics of Wind-Turbine Driven Self-Excited Induction Generator with Online Parameter Calculation". In: *Proceedings of the 39th IEEE Conference on Industrial Electronics IECON 2013*. 2013.

[51] Sergio Leal, Florian Dubisch, Florian Stift, Gerhard Zucker, and Peter Palensky. "Semi-automated deployment of Simulation-aided Building Controls". In: *Proceedings of the 39th IEEE Conference on Industrial Electronics IECON 2013*. 2013.

[52] Najd Ouhajjou, Peter Palensky, Matthias Stifter, Jessen Page, Stefan Fenz, and A Min Tjoa. "A modular methodology for the development of urban energy planning support software". In: *Proceedings of the 39th IEEE Conference on Industrial Electronics IECON 2013*. 2013.

[53] Marcelo Godoy Simoes, S. Mohagheghi, Pierluigi Siano, Peter Palensky, and Xinghuo Yu. "Advances in information technology for Smart Grids". In: *Proceedings of the 39th IEEE Conference on Industrial Electronics IECON 2013*. 2013.

[54] Matthias Stifter and Peter Palensky. "Smart Meter Data as a Basis for Smart Control in Low Voltage Distribution Networks". In: *Proceedings of the International Symposion on Industrial Electronics ISIE 2013*. 2013.

[55] Matthias Stifter, Edmund Widl, Filip Andren, Atiyah Elsheikh, Thomas Strasser, and Peter Palensky. "Co-Simulation of Components, Controls and Power Systems based on Open Source Software". In: *Proceedings of the IEEE PES General Meeting 2013*. 2013.

[56] Edmund Widl, Wolfgang Mueller, Atiyah Elsheikh, Matthias Hoertenhuber, and Peter Palensky. "The FMI++ Library: A High-level Utility Package for FMI for Model Exchange". In: *Proceedings of the 2013 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems*. 2013.

[57] Dietmar Bruckner, Jan Haase, Peter Palensky, and Gerhard Zucker. "Latest trends in integrating building automation and smart grids". In: *Proceedings of the 38th IEEE Conference on Industrial Electronics IECON 2012*. IEEE, Piscataway, NJ 08854, 2012, pp. 6285–6290.

[58] Atiyah Elsheikh, Edmund Widl, and Peter Palensky. "Simulating Complex Energy Systems With Modelica: A Primary Evaluation". In: *Digital Ecosystems Technologies (DEST), 2012 6th IEEE International Conference on*. 2012, pp. 1–6.

[59] Tarik Ferhatbegovic, Peter Palensky, Giuliano Fontanella, and Daniele Basciotti. "Modelling and design of a linear predictive controller for a solar powered HVAC system". In: *21st IEEE International Symposium on Industrial Electronics - ISIE2012*. 2012.

[60] Tarik Ferhatbegovic, Gerhard Zucker, and Peter Palensky. "An unscented Kalman filter approach for the plant-model mismatch reduction in HVAC system model based control". In: *Proceedings of the 38th IEEE Conference on Industrial Electronics IECON 2012*. Oct. 2012, pp. 2180 –2185.

[61] Edmund Widl, Peter Palensky, and Atiyah Elsheikh. "Evaluation of two approaches for simulating cyber-physical energy systems". In: *Proceedings of the 38th IEEE Conference on Industrial Electronics IECON 2012*. Oct. 2012, pp. 3582 –3587.

[62] Tarik Ferhatbegovic, Gerhard Zucker, and Peter Palensky. "Model Based Predictive Control for a Solar-Thermal System". In: *Proceedings of 10th IEEE AFRICON*. 2011.

[63] Vasco Granadeiro, Jose Pinto Duarte, and Peter Palensky. "Building envelope shape design using a shape grammar based parametric design system integrating energy simulation". In: *Proceedings of 10th IEEE AFRICON*. 2011.

[64] Peter Palensky, Gerhard Zucker, Florian Judex, Reiner Braun, Friederich Kupzog, Thomas Gamauf, and Jan Haase. "Demand Response with Functional Buildings using simplified Process Models". In: *Proceedings of the 37th IEEE Conference on Industrial Electronics*. 2011.

[65] Brigitte Bach, Doris Wilhelmer, and Peter Palensky. "Smart buildings, smart cities and governing innovation in the new millennium". In: *Proceedings of the 8th IEEE Conference on Industrial Informatics, IEEE INDIN 2010, Osaka, Japan*. 2010.

[66] Markus Brychta, Florian Dubisch, Peter Palensky, and Florian Stift. "QUEEN: Ein Tool zur Evaluierung innovativer Gebaeude- und Anlagenkonzepte auf basis dynamischer Simulation". In: *BAUSIM 2010, third German-Austrian Building Simulation Conference*. 2010.

[67] Markus Brychta, Florian Dubisch, Florian Stift, and Peter Palensky. "QUEEN: A novel design flow and decision support tool for sustainable buildings". In: *Proceedings of the 36th IEEE Conference on Industrial Electronics, IECON 2010, Phoenix AZ, USA*. 2010.

[68] Peter Palensky. "Nachhaltige Gebaeude und Smart Cities". In: *Schoenauer Expertentage 2010, 18-19 Nov 2010*. 2010.

[69] Seok Cheol Park, Woo Suk Lee, Se Hwan Kim, Seung Ho Hong, and Peter Palensky. "Implementation of a BACnet-ZigBee Gateway". In: *Proceedings of the 8th IEEE Conference on Industrial Informatics, IEEE INDIN 2010, Osaka, Japan*. 2010.

[70] Adeel Abbas Zaidi, Friederich Kupzog, Theseen Zia, and Peter Palensky. "Load Recognition for Automated Demand Response in Microgrids". In: *Proceedings of the 36th IEEE Conference on Industrial Electronics, IECON 2010, Phoenix AZ, USA*. 2010.

[71] Peter Palensky. "Electric Load Management and Information Technology". In: *Proceedings of IEEE AFRICON 2009, Nairobi, Kenya*. 2009.

[72] Peter Palensky and Dietmar Bruckner. "Anticipative virtual storage power plants". In: *Proceedings of IEEE IECON 2009, Porto, Portugal*. 2009.

[73] Rosemarie Velik, Dietmar Bruckner, and Peter Palensky. "A Bionic Approach for High-Efficiency Sensor Data Processing in Building Automation". In: *Proceedings of IEEE IECON 2009, Porto, Portugal*. 2009.

[74] Etienne Barnard, Brigitte Palensky, Peter Palensky, and Dietmar Bruckner. "Towards Learning 2.0". In: *Proceedings of IT Revolutions 2008, Venice, Italy*. 2008.

[75] Peter Palensky. "Networked, Distributed Energy Resources". In: *Proceedings of IEEE IECON 2008, Orlando, Florida*. 2008.

[76] Peter Palensky, Dietmar Bruckner, Anna Tmej, and Tobias Deutsch. "Paradox in AI - AI 2.0: the way to machine consciousness". In: *Proceedings of IT Revolutions 2008, Venice, Italy*. 2008.

[77] Peter Palensky, Friederich Kupzog, Adeel Abbas Zaidi, and Kai Zhou. "A simulation platform for distributed energy optimization algorithms". In: *Proceedings of IEEE INDIN 2008, Daejon, Korea*. 2008.

[78] Peter Palensky, Friederich Kupzog, Adeel Abbas Zaidi, and Kai Zhou. "Modeling domestic housing loads for demand response". In: *Proceedings of IEEE IECON 2008, Orlando, Florida*. 2008.

[79] Friederich Kupzog and Peter Palensky. "Wide-area control systems for balance-energy provision by energy consumers". In: *Proceedings of IFAC FET 2007, Toulouse, France*. 2007, pp. 337–345.

[80] Friederich Kupzog, Charlotte Roesener, and Peter Palensky. "Konzepte zur koordinierten Nutzung verteilter Energiespeicher". In: *Proceedings of IEWT 2007, Vienna, Austria*. 1424408261. 2007, pp. 219–230.

[81] Thomas Novak, Albert Treytl, and Peter Palensky. "Common Approach to Functional Safety and System Security in Building Automation and Control Systems". In: *Proceedings of 12th IEEE Conference on Emerging Technologies and Factory Automation (ETFA 2007), Patras, Greece, 09-25-2007 - 09-28-2007*. 2007.

[82] Peter Palensky, Brigitte Lorenz, and Andrea Clarici. "Cognitive and Affective Automation: Machines Using the Psychoanalytic Model of the Human Mind". In: *Proceedings of the first IEEE Engineering Neuro-Psychoanalysis Forum ENF 2007, Vienna*. 2007, pp. 49–74.

[83] Wolfgang Prueggler, Friederich Kupzog, Benoit Bletterie, Tomaz Pfajfar, Hans Auer, and Peter Palensky. "Status quo of Distributed Generation, future trends and recommendations for active Distribution Grid Operation in Austria". In: *Proceedings of International Youth Conference on Energetics*. 2007.

[84] Thomas Tamandl, Peter Preininger, Thomas Novak, and Peter Palensky. "Testing Approach for Online Hardware Self Tests in Embedded Safety Related Systems". In: *Proceedings of 12th IEEE Conference on Emerging Technologies and Factory Automation (ETFA 2007), Patras, Greece, 09-25-2007 - 09-28-2007*. 952150689X. 2007.

[85] Abdul Bais, Walter T. Penzhorn, and Peter Palensky. "Evaluation of UMTS security architecture and services". In: *4th International Conference on Industrial Informatics IEEE INDIN 2006*. 2006.

[86] Bernd Buchholz and Peter Palensky. "Kommunikation als Schluessel fuer kuenftige Effizienz der Netzfuehrung". In: *11th Kassler Symposium Energy Systems Technology 2006 - KSES06*. 2006.

[87] Oliver Haas, Olaf Ausburg, and Peter Palensky. "Communication with and within Distributed Energy Resources". In: *4th International Conference on Industrial Informatics IEEE INDIN 2006*. 2006.

[88] Peter Palensky. "Current situation and future potential of intelligent building automation". In: *European Conference and Cooperation Exchange 2006 Sustainable energy systems for buildings: challenges and chances*. 2006.

[89] Peter Palensky. "Prozessdesign und Gebaeudetechnik". In: *Intelligente Gebaeude und Wohnungen 2006 - die Praxis*. 2006, pp. 111–120.

[90] Manfred Weihs, Helmut Bruckner, Brigitte Lorenz, and Peter Palensky. "Integral Resource Optimization Network". In: *9. Symposium Energieinnovation, Graz, 2006*. 2006.

[91] Christoph Bacher, Peter Palensky, and Stefan Mahlknecht. "Low cost data transmission via metallic solids for sensor networking". In: *IEEE International Conference on Emerging Technologies 2005 (ICET 2005), Islamabad, Pakistan*. 2005.

[92] Wolfgang Burgstaller, Stefan Soucek, and Peter Palensky. "Current challenges in abstracting data points". In: *6th IFAC International Conference on Fieldbus Systems and their Applications (FeT 2005), Puebla, Mexico*. Springer, 2005.

[93] Brigitte Lorenz, Charlotte Roesener, and Peter Palensky. "Projekt IRON - Integral Resource Optimization Network Study". In: *Proceedings of 4. Internationale Energiewirtschaftstagung an der TU Wien (IEWT 2005), Vienna, 02-16-2005 - 02-18-2005*. 2005, pp. 144–145.

[94] Gerhard Pratl and Peter Palensky. "Project ARS - The next step towards an intelligent environment". In: *Proceedings of the The IEE International Workshop on Intelligent Environments, Colcester, England, 06-28-2005 - 06-29-2005*. 2005, pp. 55–62.

[95] Thomas Rausch and Peter Palensky. "PROFESY: Intelligent Global Energy Management". In: *Proceedings of the 9th International Conference on Intelligent Engineering Systems (INES 2005), Mediterranean, Greece*. 0780341821. 2005.

[96] Charlotte Roesener, Peter Palensky, Manfred Weihs, Brigitte Lorenz, and Michael Stadler. "Integral Resource Optimization Network - a new solution on power markets". In: *3rd International IEEE Conference on Industrial Informatics (INDIN 2005), Perth, Australia*. 2005.

[97] Albert Treytl, Peter Palensky, and Thilo Sauter. "Security considerations for energy automation networks". In: *6th IFAC International Conference on Fieldbus Systems and their Applications (FeT 2005), Puebla, Mexico*. 9076019096. Springer, 2005.

[98] Elisabeth Brainin, Dietmar Dietrich, Peter Palensky, and Charlotte Roesener. "Neuro-bionic Architecture of Automation Systems - Obstacles and Challenges". In: *Proceedings of 2004 IEEE Africon, 7th Africon Conference in Africa, Technology Innovation, Volume 2*. 0780378547. IEEE, 2004, pp. 1219–1222.

[99] Peter Fischer and Peter Palensky. "Safety and Security in Communication Standards for Building Automation and Control Systems". In: *Proceedings of 13th International Conference on Automatic Fire Detection AUBE '04*. Ed. by H. Luck, P. Laws, and I. Willms. ZVD University of Duisburg, 2004, pp. 112–120.

[100] Peter Fischer and Peter Palensky. "The importance of Being Certified - The role of conformance testing and certification of communication systems in building automation and control devices". In: *Proceedings of 2004 IEEE Africon, 7th Africon Conference in Africa, Technology Innovation, Volume 2*. IEEE, 2004, pp. 1223–1227.

[101] Wolfgang Kastner, Peter Palensky, Thomas Rauscher, and Charlotte Roesener. "A Closer Look on Today's Home and Building Networks". In: *Proceedings of 2004 IEEE Africon, 7th Africon Conference in Africa, Technology Innovation, Volume 2*. IEEE, 2004, pp. 1239–1245.

[102] Peter Palensky. "Requirements for the Next Generation of Building Networks". In: *Proceedings of International Conference on Cybernetics and Information Technologies, Systems and Applications (ISAS CITSA 2004)*. 2004, pp. 225–230.

[103] Olga Plaxina, Kiril Seleznev, and Peter Palensky. "Laboratory Complex for Remote Training on Distributed Automation Networks". In: *Proceedings CD of IEEE International Symposium on Remote Engineering and Virtual Instrumentation 2004 (REV2004)*. 0780356705. 2004.

[104] Dietmar Dietrich, Peter Palensky, and Albert Treytl. "Communication in Automation with the Emphasis on Security". In: *International Workshop on Integrated systems with focus on Fire an Security, Rom, Italien (invited), Eusas Newsletter,16.06.2003 - 17.06.2003*. 2003, pp. 89–104.

[105] Yoseba Penya Landaburu, Peter Palensky, and Maxim Lobashov. "Requirements and Prospects for Consumers of Electrical Energy regarding Demand Side Management". In: *IEWT 2003, Wien, 12.02.2003 - 14.02.2003, in: Die Zukunft der Energiewirtschaft im liberalisierten Markt - Kurzfassungsband, (2003)*. 2003, pp. 101–102.

[106] Stefan Mahlknecht and Peter Palensky. "Linking Control Networks and Wireless Personal Area Networks". In: *Proceedings of 9th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA2003), Lisbon, Portugal, 16.-19.9.2003*. 2003.

[107] Stefan Mahlknecht and Peter Palensky. "Wireless Demand Side Management in Home and Building Automation". In: *Proceedings of Domestic Use of Energy Conference, Cape Town, South Africa, 01.04.2003 - 03.04.2003*. 2003, pp. 243–248.

[108] Peter Palensky. "Chancen und Risiken totaler Vernetzung". In: *OVE/GIT Fachtagung "Intelligente Gebaeude und Wohnungen - Vernetzt Denken", Wien, 26.03.2003*. 2003, pp. 1–1.

[109] Peter Palensky. "Das JEVis System - Verteiltes Management von Energie- und Betriebsdaten". In: *Achtes Kasseler Symposium Energie-Systemtechnik Energie und Kommunikation, Kassel, 13.-14.11.2003*. ISET, 2003, pp. 126–140.

[110] Peter Palensky. "Intelligenter Strom". In: *OVE-Workshop Intelligenter Strom: Neue Trends zur Optimierung der Ressource Elektrische Energie, 23. Oktober 2003, Wien*. 2003.

[111] Peter Palensky. "Smart Card Security for Field Area Networks". In: *Proceedings of the IEEE-Siberian Conference on Control and Communications. SIBCON-2003. Tomsk, 1.-2.10.2003, IEEE GOLD Affinity Group of the Siberia Section*. 1424408261. IEEE, 2003, pp. 135–138.

[112] Peter Palensky. "The JEVis System - An advanced Database for Energy-related Services". In: *Proceedings of the 7th IASTED International Conference on Power and Energy Systems PES/TDA", Palm Springs, California, USA, 24.02.2003 - 26.02.2003*. 95424683. 2003, pp. 442–446.

[113] Peter Palensky. "The JEVis System. Energy Data Management". In: *Proceedings of OVE/GIT Fachtagung, Wien, 12.03.2003, "IP-Applications - Das Netz nutzen"*. 2003.

[114] Peter Palensky and Stefan Mahlknecht. "Latest Trends in Building Automation". In: *Proceedings of OVE/GIT Fachtagung "Intelligente Gebaeude und Wohnungen - Vernetzt Denken", Wien, 26.03.2003*. 2003.

[115] Peter Palensky and Gerhard Pratl. "Secure and scalable automated meter reading". In: *Proceedings of Domestic Use of Energy Conference, DUE 2003, Cape Town, South Africa, 01.04.2003 - 03.04.2003*. 2003, pp. 233–236.

[116] Maxim Lobashov and Peter Palensky. "Bringing Energy-related Services to Reality". In: *IEWT Internationale Energiewirtschaftstagung TU Wien, Wien, 21.-23.02.2001*. 780386051. 2001, pp. 97–97.

[117] Peter Palensky. "A new Parallel Genetic Algorithm for Energy Management". In: *Proceedings of IEWT 2001, Vienna, Austria, 2001*. 2001, pp. 90–90.

[118] Thilo Sauter and Peter Palensky. "Network Technology for Distributed Plant Automation". In: *Proceedings of INES 2001, Helsinki/Stockholm, September 2001*. Institute of Production Engineering, Tampere, Finland, 2001, pp. 407–412.

[119] Thilo Sauter and Peter Palensky. "The smart Fridge - a networked appliance". In: *Feldbustagung FeT01, Nancy, 15.11.2001 - 16.11.2001, in: "Proceedings of FET 2001"*. 2001, pp. 161–164.

[120] Peter Palensky and Thilo Sauter. "Modular Software Architecture for Networked Appliances". In: *Proceedings of the Second International Workshop on Networked Appliances IWNA 2000, New Brunswick, NJ, November 2000*. 9076019096. 2000.

[121] Peter Palensky and Thilo Sauter. "Security Considerations for FAN-Internet connections". In: *Proceedings of the 3rd IEEE International Workshop on Factory Communication Systems, Porto, Portugal, September 2000*. 780386051. 2000.

[122] Dietmar Dietrich, Mikhail Gordeev, and Peter Palensky. "Vollstaendige Vernetzung von Gebaeuden". In: *Vortrag: ASA99, Wien, 19.10.1999, in: "Chipkarten am PC"*. 1999, pp. 1–8.

[123] Dietmar Dietrich and Peter Palensky. "TRICON - Vollstaendige Vernetzung von Privathaushalten durch EVUs". In: *Internationale Energiewirtschaftstagung an der TU Wien, 24-26. Feb. 1999*. 780386051. 1999, pp. 56–56.

[124] Mikhail Gordeev and Peter Palensky. "Using Smart Card Technology to secure data exchange for intelligent home-nets". In: *IARB99 Intelligent and Responsive Buildings Conference, Brugge, 29.03.1999 - 30.03.1999, in: "Proceedings of the International Conference on Intelligent and Responsive Buildings", (1999)*. Technologisch Instituut vzw, 1999, pp. 89–95.

[125] Peter Palensky. "Demand Side Management durch intelligente Software-Agenten und Feldbus Technologie". In: *Internationale Energiewirtschaftstagung an der TU Wien, 24-26. Feb. 1999*. 1999, pp. 55–55.

[126] Peter Palensky. "Intelligent Software Agents for EIB Networks". In: *Proceedings EIB Scientific Conference 1999, Munich, Germany, Oct. 28th., 1999*. Richard Pfalum Verlag, Munich, 1999, pp. 67–76.

[127] Peter Palensky. "The Convergence of Intelligent Software Agents and Field Area Networks". In: *Proceedings ETFA99, Barcelona, Spain, 1999*. IEEE, 1999, pp. 917–922.

[128] Peter Palensky and Mikhail Gordeev. "Demand Side Management by using distributed artificial intelligence and fieldbus technology". In: *IARB99 Intelligent and Responsive Buildings Conference, Brugge, 29.03.1999 - 30.03.1999, in: "Proceedings of the International Conference on Intelligent and Responsive Buildings", (1999)*. Technologisch Instituut vzw, 1999, pp. 357–364.

[129] Peter Palensky, Dietmar Dietrich, Ratko Posta, and Heinrich Reiter. "Demand Side Management in private homes by using LonWorks". In: *Proceedings of WFCS97 2nd IEEE Workshop on Factory Communication Systems, Barcelona Oct. 1-3 1997*. IEEE, 1997, pp. 341–347.

[130] Peter Palensky, Heinrich Reiter, and Christian Pfeiler. "Electronic energy consulting in private homes by using LonWorks and Multimedia". In: *LonUsers International Fall 97 Conference, Amsterdam Oct. 28-29 1997, Amsterdam RAI*. 1997.

Theses

[1] Peter Palensky. "Distributed Reactive Energy Management". PhD thesis. Dissertation, TU Wien, 2001.

[2] Peter Palensky. "Demand-Side-Management in privaten Haushalten mittels LON". MA thesis. Diploma Thesis, TU Wien, 1997.

Talks, keynotes

[1] Peter Palensky. *Co-simulation, PowerWeb and Cyber Security*. Keynote at TEG Symposium. 2018.

[2] Peter Palensky. *Digital Transformation and Cyber-physical Security of Energy Grids*. Keynote at ICD CIO Summit Bratislava 2018. Sept. 2018.

[3] Peter Palensky. *How to model integrated energy systems*. Keynote at IEEE International Conference on Smart Energy Systems and Technologies (SEST). 2018.

[4] Peter Palensky. *Model-based operations of future energy systems*. Ed. by Maher Chebbo et al. Keynote at ETIP SNET WG4 Meeting. Vienna, Nov. 9, 2018.

[5] Peter Palensky. *Modeling Smart Grids*. Ed. by Rolf Künneke et al. Keynote at Sustainable Urban Energy Systems. Nov. 8, 2018.

[6] Peter Palensky. *Smart Grids: Complexity, Digitization, and Models*. Keynote at INTELEC95 meeting 2018. Apr. 2018.

[7] Peter Palensky. *The power system of the future: Molecules, Bits, and Electrons*. invited talk at Symposium "Empowering Innovation Tomorrow by Basic Research Today". June 2018.

[8] Rishabh Bhandia and Peter Palensky. *Improved grid reliability by fault anticipation techniques*. Poster presentation at PowerWeb Conference 2017. June 2017.

[9] Peter Palensky. *Electric Sustainable Energy Research in Netherlands*. Invited Talk at The Institution of Engineers, Tiruchirappally, India. Dec. 2017.

[10] Peter Palensky. *Modeling and Simulation of Cyber-Physical Energy Systems*. invited Talk at National eScience Symposium. 2017.

[11] Peter Palensky. *Modeling and simulation of intelligent electrical power grids*. Keynote at IEEE FEDCIS 2017. Sept. 2017.

[12] Kaikai Pan, Andre Teixeira, and Peter Palensky. *Cyber Security of Intelligent Power Grids: Vulnerability and Impact Assessment for Combined Data Attacks*. Poster at Symposium on Innovative Smart Grid Cybersecurity Solution, Vienna, Austria. Mar. 2017.

[13] Peter Palensky. *Co-Simulation of Intelligent Energy Systems*. Panel at IEEE PES General Meeting 2016, Boston. July 2016.

[14] Peter Palensky. *Cyber-Physical Energy Systems*. Invited talk at COSSE Workshop, Delft. Feb. 2016.

[15] Peter Palensky. *Hybrid Models for Agents in Cyber-Physical Energy Systems*. Keynote at 14th MATES Conference on Multiagent System Technologies. Sept. 2016.

[16] Peter Palensky. *Modeling and Simulation of Cyber-Physical Energy Systems*. Panel at IEEE ISGT 2016, Minneapolis. Sept. 2016.

[17] Peter Palensky. *Modelling of complex cyber-physical systems: concepts and methods*. Tutorial at IEEE EnergyCon 2016, Leuven. Apr. 2016.

[18] Peter Palensky. *Simulation of heterogeneous energy systems*. Keynote on IEEE PEMC. Sept. 2016.

[19] Peter Palensky. *Smart Integrated Energy Systems*. Keynote at Smarter Europe 2016, Essen. Feb. 2016.

[20] Peter Palensky. *The grid as platform*. Invited talk at "An innovative truth", Eindhoven. June 2016.

[21] Peter Palensky. *Co-Simulation of heterogeneous Energy Systems*. Panel presentation at IEEE PES General Meeting 2015. 2015.

[22] Peter Palensky. *Cyber-physical Energy Systems*. Keynote IEEE Conference on Emerging Technologies in Factory Automation. 2015.

[23] Peter Palensky. *Cyber-Physical Energy Systems*. Presentation at the Rotterdam School of Management open BIM Seminar. 2015.

[24] Peter Palensky. *Modeling Intelligent Energy Systems*. Keynote at Smart Nord 2015. Feb. 2015.

[25] Peter Palensky. *Modeling of complex cyber-physical systems: concepts and methods*. Tutorial at CIRED 2015. 2015.

[26] Peter Palensky. *Buildings, People, and the Grid*. Workshop Human-Centered Energy Management, AAU Klagenfurt. 2014.

[27] Peter Palensky. *Virtuelle Speicher*. Invited Presentation at 5. PVA-Speichertagung SONNENSTROM AUF VORRAT. 2014.

[28] Peter Palensky. *Can IT replace energy storage?* Invited Talk at Frontiers of Information Technology FIT 2013. Dec. 2013.

[29] Peter Palensky. *Co-Simulation of Complex Energy Systems*. Invited Talk at Frontiers of Information Technology FIT 2013. Dec. 2013.

[30] Peter Palensky. *Intelligent Energy Systems*. Invited Presentations at Young OVE Meeting 2013. Apr. 2013.

[31] Peter Palensky. *Kann IT Speicher ersetzen?* Invited Talk at Konferenz Erneuerbare Energie, Velden 2013. Nov. 2013.

[32] Peter Palensky. *Modeling of Cyber-physical energy systems: Concept and Methods*. Invited Talk at EES UETP Course on Co-Simulation of Energy and ICT Systems, KTH Stockholm. Nov. 2013.

[33] Peter Palensky. *Simulation of Cyber-Physical Energy Systems*. Invited Talk at DTU-RISOE PowerICT Workshop 2013. Mar. 2013.

[34] Peter Palensky. *Smart Cities*. Invited Talk at DTU-RISOE PowerICT Workshop 2013. Mar. 2013.

[35] Peter Palensky. *Challenges in Modeling Cyber-Physical Energy Systems*. Invited Talk at "Frontiers of Information Technology" FIT 2012. Dec. 2012.

[36] Peter Palensky. *European Energy Innovation*. www.europeanenergyinnovation.eu, Dec. 2012.

[37] Peter Palensky. *Modeling Cyber-Physical Energy Systems*. Keynote at "The 2012 Forum on specification and Design Languages" FDL 2012. Sept. 2012.

[38] Peter Palensky. *Smart Cities - a large scale cyber-physical energy system and a complex optimization problem*. Invited Talk at "Frontiers of Information Technology" FIT 2011. Dec. 2011.

[39] Peter Palensky and Tarik Ferhatbegovic. *Sustainable Buildings and Controls*. Keynote at "Buildings under Control", October 2011, Vienna. Oct. 2011.

[40] Peter Palensky. *ICT and Energy*. Keynote at KomForEn (Communication for Energy) 2010, 29. Sept 2010, Wels, Austria. 2010.

[41] Peter Palensky. *Sustainable, intelligent Buildings- How Building Automation and Control Systems contribute to energy efficient operation*. Keynote at High Level event on ICT for Energy Efficiency, European Commission, Bruxelles, 24.2.2010. 2010.

[42] Peter Palensky. *Neuro-bionic control of complex digital ecosystems*. Keynote at 3rd IEEE Conference on Digital Ecosystems, Istanbul, Turkey, 2009. 2009.

[43] Ed Koch, Peter Palensky, Mary Ann Piette, Sila Kiliccote, and Girish Ghatikar. *Architecture for Supporting the Automation of Demand Response*. Presentation at 1st IEEE Industrial Electronics Society Industry Forum. 2008.

[44] Peter Palensky. *Joint Endeavors of Psychoanalysts and Engineers*. Invited Talk at Frontiers of Information Technology, Bhurban, Pakistan. 2008.

[45] Peter Palensky. *The ghost in the machine 2.0: psycho-bionic steps towards mastering complex environments*. Keynote at 6th IEEE Conference on Industrial Informatics, Daejeon, Korea, July 13-16, 2008. 2008.

[46] Peter Palensky. *Communication Requirements for Demand Side Management and Microgrids*. Presentation at Nagoya 2007 Symposium on Microgrids. 2007.

[47] Peter Palensky. *Energie und Kommunikation - ein Netzwerk der Koepfe*. Keynote at Informationstechnologien fuer optimierte, hochvernetzte Energiesysteme, Vienna, 4.10.2005. 2005.

[48] Peter Palensky. *LonWorks: A General Purpose Control Network*. Keynote at TU Novi Sad & IEEE Joint Chapter IAS/IES/PELS (Novi Sad, Serbia & Montenegro, 22.5.2004). 2004.

[49] Peter Palensky. *Bussysteme fuer Gebaeude - ein Ueberblick*. Keynote at Energiemanagement in Gebaeuden (EMIG 2003), Aachen, 25.9.2003. 2003.

[50] Peter Palensky. *Computer Communication in Automation*. Keynote at Non-profit partnership Sotrudnichestvo (regional association of the employers of Perm Region), Chernyshevsky str. 28, 614002 Perm, Russia, 4.10.2003. 2003.

[51] Peter Palensky. *Energy Management: Supply and Demand Strategies in the Open System Market*. Keynote at LonWorld 2003, Munich 15.-16.10.2003. 2003.

[52] Peter Palensky. *Plug and Play fuer Feldgeraete?* Keynote at ZVEI Gespraechsforum "Dialog im ZVEI - ZVEI im Dialog" at Hannover Fair 2000, 14.3.2000, Hannover. 2000.

[53] Peter Palensky. *On Interoperability and Intelligent Software Agents for Field Area Networks*. Presentation at FET 1999, Magdeburg. 1999.

[54] Dietmar Dietrich and Peter Palensky. *Feldbustechnik*. Presentation at: Austrian Energy EBS, Wien (eingeladen), 01.04.1998. 1998.

[55] Dietmar Dietrich and Peter Palensky. *Feldbustechnik*. Keynote at Temporaerer Arbeitskreis Distribution-Line-Carrier (TAK DLC) of Verband der Elektrizitaetswerke Oesterreichs (VEOE), 4., Brahmsplatz 3, Vienna, 11.11.1998. 1998.

[56] Dietmar Dietrich and Peter Palensky. *Fieldbus Technology*. Presentation/Seminar at Perm State Technological University, Perm, Russia, 21.06.1998. 1998.

[57] Dietmar Dietrich, Diemtar Loy, Peter Palensky, Thilo Sauter, and Hans-Joerg Schweinzer. *Main research topics in fieldbus technology and interdisciplinary projects*. Presentation at 13. oesterreichischer Automatisierungstag, Wien 16. Oktober 1997, MCC-Messe Congress Centrum. 1997.

[58] Peter Palensky and Ratko Posta. *Demand Side Management in private Homes using LonWorks*. Presentation at FET 1997, Vienna. 1997.

Non-reviewed articles

[1] Peter Palensky and Tarik Ferhatbegovic. "Sustainable Buildings and Controls". In: *L Express* (Oct. 2011), pp. 14 –15.

[2] Peter Palensky. "Total digital - Wo endet der Raum?" In: *Architektur und Bauforum* (May 2007).

[3] Dietmar Dietrich, Peter Palensky, Sandrine von Klot, and Dorothee Dietrich. "Digitale Gebaeude". In: *Architektur und Bauforum* (Mar. 2006), pp. 8–10.

[4] Peter Palensky and Gerhard Pratl. "Kein Geld fuer psychiatrische Notfallshilfe?" In: *Monat* (Dec. 2006), pp. 8–9.

[5] Peter Palensky, Dietmar Dietrich, and Gerhard Pratl. "Die Zukunft der Gebaeudeautomation". In: *LNO-Brief* 35 (June 2005), pp. 5–8.

Technical reports

[1] Peter Palensky, Friederich Kupzog, Stefan Grobbelaar, and Marcus Meisel. *Integral Resource Optimization Network Concept*. Tech. rep. Bundesministerium f. Verkehr, Innovation und Technologie, Austria, 2008.

[2] Mary Ann Piette, Girish Ghatikar, Sila Kiliccote, Ed Koch, Dan Hennage, Peter Palensky, and Charles McParland. *Open Automated Demand Response Communications Specification (Version 1.0)*. Tech. rep. LBNL-1779E. Ernest Orlando Lawrence Berkeley National Laboratory, Berkeley, CA (US), 2008.

[3] Peter Palensky, Brigitte Lorenz, Manfred Weihs, Charlotte Roesener, Michael Stadler, and Thomas Frank. *Integral Resource Optimization Network Study*. Tech. rep. Bundesministeriums f. Verkehr, Innovation und Technologie, Austria, Nov. 2005.

[4] Dietmar Dietrich, Peter Palensky, Wolfgang Burgstaller, Charlotte Roesener, and Wolfgang Kastner. *Technische Innovationen zur Steigerung der Konkurrenzfaehigkeit von EIB/KNX fuer den breiten Markt*. Tech. rep. Vienna University of Technology / Report for Siemens AG oesterreich Bereich A&D, 2004.