

# Curriculum Vitae

## Peter Palensky



### Personal Data

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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

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Peter Palensky is Professor for intelligent electric power grids at TU Delft, 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 like IEEE and is associate editor for the IEEE Transactions on Industrial Informatics. His main research field is complex energy systems.

### Biography

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Peter Palensky is Professor for intelligent electric power grids at TU Delft, 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 remote metering, consumption analysis and energy performance benchmarking. The basis for their services are distributed sensor networks, Internet gateways and server software, 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 associate editor for the IEEE Transactions on Industrial Informatics. His main research fields are 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 a full Professor for intelligent electric power grids at TU Delft, Faculty for Electrical Engineering, Mathematics and Computer Science, Netherlands. He leads a group of 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

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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

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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

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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

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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

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2017 - now	"Intelligent Electric Power Grids" (3 ECTS), TU Delft, Netherlands
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

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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

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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 teaming up with automation manufacturers, utility companies, international research peers and public authorities to implement his research ideas.

## Awards and Patents

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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

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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
1999	"Fieldbus Technology", Vienna University of Technology, Austria 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**

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2018	IEEE International Conference on Industrial Cyber-Physical Systems ICPS 2018 (Tutorial Chair)
2017	IEEE IECON 2017 (Special Session Co-Chair) IEEE ISIE 2017 (Program Co-Chair) IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General Chair)
2016	IEEE Industrial Informatics INDIN 2017 (Tutorial Chair) 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)

2014	IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General Chair) 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 \_\_\_\_\_**

2018	IEEE International Conference on Industrial Electronics for Sustainable Energy Systems (IESES) IEEE ISIE, Track Power Systems and Smart Grids DoCEIS 2018 - Doctoral Conference on Computing, Electrical and Industrial Systems IEEE ICIT (Track Power Systems and Smart Grids) 5th International Workshop on Computational Energy Management in Smart Grids (CEMiSG 2018) Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM)
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- 2017  
EvoStar 2017 (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 (TENSYP 2017)
- 2016  
CEMiSG2016 - 3rd International Workshop on Computational Energy Management in Smart Grids  
3rd International Conference on Big Data and Smart City  
IEEE EPEC 2016  
IEEE CPE PowerEng 2016  
IEEE INDIN 2016 Track Technologies and Infrastructures  
IEEE ICIT 2016 Track Power Systems and the Smart Grid  
IEEE ETFA Track Information and Communication Technology in Energy Systems  
IEEE ISIE 2016, Track Smart Grids  
IEEE WFCS  
4th International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (masges16)  
IEEE Electric Power and Energy Conference (EPEC) 2016
- 2015  
IEEE ISIE 2015 (Track Smart Grids and Renewable Energy)  
EvoStar 2013 (Track EvoEnergy)  
SmartER Europe 2015  
CEMiSG2015 - 2nd International Workshop on Computational Energy Management in Smart Grids  
IEEE ISGT-LA 2015: Innovative Smart Grids Technologies Latin America  
IEEE ETFA 2015 Track "ICT in Energy Systems"  
IEEE WFCS 2015  
Energy Informatics 2015  
3rd International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (masges15)  
6th Symposium on Communications for Energy Systems (ComForEn 2015)  
Workshop IT und Dienstleistungen fuer die Energiewende und Elektromobilitaet (IDEE 2015)  
International Symposium on Smart Electric Distribution Systems and Technologies (EDST 2015)  
IEEE SmartGridComm15 Symposium 2015
- 2014  
DoCEIS 2014 - Doctoral Conference on Computing, Electrical and Industrial Systems  
IEEE ISIE 2014 (Track "Control Systems & Applications")  
IEEE WFCS 2014  
SmartER Europe 2014  
Multi-agent based Applications for Smart Grids and Sustainable Energy Systems (MASGES) 2014  
International Workshop on Computational Energy Management in Smart Grids (CEMiSG) 2014

- IEEE International Conference on Smart Grid Communications (SmartGrid-Comm): Demand Response and Dynamic Pricing Symposium  
Workshop "Smart Grids" at the annual meeting of the German Informatics Society (GI) 2014  
Energieinformatik 2014 PhD Congress  
Energieinformatik 2014  
Federated Conference On Computer Science and Information Systems (Fed-CSIS) 2014  
IEEE International Workshop on Intelligent Energy Systems (IWIES) 2014  
2013 EvoStar 2013 (Track EvoEnergy)  
DoCEIS - Doctoral Conference on Computing, Electrical and Industrial Systems 2013  
IEEE ICIT 2013 Special Session on Industrial Electronics Technologies in Smart Grids  
Workshop on Multi-agent based Applications for Sustainable Energy Systems (part of PAAMS 2013)  
WISES 2013 - Eleventh Workshop on Intelligent Solutions in Embedded Systems  
IEEE SEGE 2013 (Conference on Smart Energy Grid Engineering)  
GI INFORMATIK 2013, Workshop "Smart Grids"  
2012 Int. Conf. on Infocomm Technologies in Competitive Strategies ICT 2013  
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 (Fed-CSIS) 2012  
IEEE SmartGridComm 2012 (Symposium on Smart Grid Services and Management Models)  
2011 BITA 2012 (Best IT Innovation Awards 2012, Pakistan)  
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
2009	IEEE ICIEA 2010 (Track "Networks and Communication")
	IFAC FET 2009
	IEEE IISE 2009
	IEEE ETFA 2009
	WISES 2009
	IEEE SIES09
	IEEE IECON 2009 (Special Session "Energy and IT")
2008	IEEE ICIEA 2009 (Track "Networks and Communication")
	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

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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 (IJEES)
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

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2017 - now	Chair Academic Advisory Board of European Network for Cyber Security
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

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2017	University of Lappeenranta, Finland: Reviewer for professorship appointment committee "IoT in Energy Systems"
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.)
2004 - 2005	Vienna University of Technology, Austria: Member mid-level faculty meeting Vienna University of Technology, Austria: Member appointment committee for a professorship "Embedded Systems"

## Publication List

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Peer reviewed articles

- [1] 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* (2017).
- [2] 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* PP.99 (2017), pp. 1–1. ISSN: 0885-8950.
- [3] 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.
- [4] 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).
- [5] 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* (Sept. 2017), pp. 1–9. ISSN: 1865-2034.
- [6] 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* (2017).
- [7] 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.
- [8] 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.
- [9] 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.
- [10] 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.
- [11] 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.
- [12] 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.
- [13] 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).
- [14] 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.
- [15] Dietmar Bruckner, Tharam Dillon, Shiyuan 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.
- [16] Aadil Latif and Peter Palensky. "Economic Dispatch Using Modified Bat Algorithm". In: *Algorithms* 7.3 (2014), pp. 328–338. ISSN: 1999-4893.
- [17] 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.
- [18] 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.

- [19] 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.
- [20] 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.
- [21] Peter Palensky and Friederich Kupzog. "Smart Grids". In: *Annual Reviews of Environment and Resources* 38 (Nov. 2013), pp. 201–226.
- [22] 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.
- [23] 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.
- [24] 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.
- [25] 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.
- [26] Dietmar Dietrich, Peter Palensky, and Dorothee Dietrich. "Psychoanalyse und Computertechnik, eine Win-Win-Situation?" In: *psychosozial* 127 (2012).
- [27] 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.
- [28] 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.
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## Talks, keynotes

- [1] Rishabh Bhandia and Peter Palensky. *Improved grid reliability by fault anticipation techniques*. Poster presentation at PowerWeb Conference 2017. June 2017.
- [2] Peter Palensky. *Modeling and simulation of intelligent electrical power grids*. Keynote at IEEE FEDCIS 2017. Sept. 2017.
- [3] Peter Palensky. *Co-Simulation of Intelligent Energy Systems*. Panel at IEEE PES General Meeting 2016, Boston. July 2016.
- [4] Peter Palensky. *Cyber-Physical Energy Systems*. Invited talk at COSSE Workshop, Delft. Feb. 2016.
- [5] Peter Palensky. *Hybrid Models for Agents in Cyber-Physical Energy Systems*. Keynote at 14th MATES Conference on Multiagent System Technologies. Sept. 2016.
- [6] Peter Palensky. *Modeling and Simulation of Cyber-Physical Energy Systems*. Panel at IEEE ISGT 2016, Minneapolis. Sept. 2016.
- [7] Peter Palensky. *Modelling of complex cyber-physical systems: concepts and methods*. Tutorial at IEEE EnergyCon 2016, Leuven. Apr. 2016.
- [8] Peter Palensky. *Simulation of heterogeneous energy systems*. Keynote on IEEE PEMC. Sept. 2016.
- [9] Peter Palensky. *Smart Integrated Energy Systems*. Keynote at Smarter Europe 2016, Essen. Feb. 2016.
- [10] Peter Palensky. *The grid as platform*. Invited talk at "An innovative truth", Eindhoven. June 2016.
- [11] Peter Palensky. *Co-Simulation of heterogeneous Energy Systems*. Panel presentation at IEEE PES General Meeting 2015. 2015.
- [12] Peter Palensky. *Cyber-physical Energy Systems*. Keynote IEEE Conference on Emerging Technologies in Factory Automation. 2015.
- [13] Peter Palensky. *Cyber-Physical Energy Systems*. Presentation at the Rotterdam School of Management open BIM Seminar. 2015.
- [14] Peter Palensky. *Modeling Intelligent Energy Systems*. Keynote at Smart Nord 2015. Feb. 2015.
- [15] Peter Palensky. *Modeling of complex cyber-physical systems: concepts and methods*. Tutorial at CIRED 2015. 2015.
- [16] Peter Palensky. *Buildings, People, and the Grid*. Workshop Human-Centered Energy Management, AAU Klagenfurt. 2014.
- [17] Peter Palensky. *Virtuelle Speicher*. Invited Presentation at 5. PVA-Speichertagung SONNENSTROM AUF VORRAT. 2014.
- [18] Peter Palensky. *Can IT replace energy storage?* Invited Talk at Frontiers of Information Technology FIT 2013. Dec. 2013.
- [19] Peter Palensky. *Co-Simulation of Complex Energy Systems*. Invited Talk at Frontiers of Information Technology FIT 2013. Dec. 2013.
- [20] Peter Palensky. *Intelligent Energy Systems*. Invited Presentations at Young OVE Meeting 2013. Apr. 2013.

- [21] Peter Palensky. *Kann IT Speicher ersetzen?* Invited Talk at Konferenz Erneuerbare Energie, Velden 2013. Nov. 2013.
- [22] 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.
- [23] Peter Palensky. *Simulation of Cyber-Physical Energy Systems*. Invited Talk at DTU-RISOE PowerICT Workshop 2013. Mar. 2013.
- [24] Peter Palensky. *Smart Cities*. Invited Talk at DTU-RISOE PowerICT Workshop 2013. Mar. 2013.
- [25] Peter Palensky. *Challenges in Modeling Cyber-Physical Energy Systems*. Invited Talk at "Frontiers of Information Technology" FIT 2012. Dec. 2012.
- [26] Peter Palensky. *Modeling Cyber-Physical Energy Systems*. Keynote at "The 2012 Forum on specification and Design Languages" FDL 2012. Sept. 2012.
- [27] 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.
- [28] Peter Palensky and Tarik Ferhatbegovic. *Sustainable Buildings and Controls*. Keynote at "Buildings under Control", October 2011, Vienna. Oct. 2011.
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- [31] Peter Palensky. *Neuro-bionic control of complex digital ecosystems*. Keynote at 3rd IEEE Conference on Digital Ecosystems, Istanbul, Turkey, 2009. 2009.
- [32] 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.
- [33] Peter Palensky. *Joint Endeavors of Psychoanalysts and Engineers*. Invited Talk at Frontiers of Information Technology, Bhurban, Pakistan. 2008.
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- [35] Peter Palensky. *Communication Requirements for Demand Side Management and Microgrids*. Presentation at Nagoya 2007 Symposium on Microgrids. 2007.
- [36] Peter Palensky. *Energie und Kommunikation - ein Netzwerk der Koepfe*. Keynote at Informationstechnologien fuer optimierte, hochvernetzte Energiesysteme, Vienna, 4.10.2005. 2005.
- [37] 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.
- [38] Peter Palensky. *Bussysteme fuer Gebaeude - ein Ueberblick*. Keynote at Energiemanagement in Gebaeuden (EMIG 2003), Aachen, 25.9.2003. 2003.
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- [40] Peter Palensky. *Energy Management: Supply and Demand Strategies in the Open System Market*. Keynote at LonWorld 2003, Munich 15.-16.10.2003. 2003.
- [41] 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.
- [42] Peter Palensky. *On Interoperability and Intelligent Software Agents for Field Area Networks*. Presentation at FET 1999, Magdeburg. 1999.



- [43] Dietmar Dietrich and Peter Palensky. *Feldbustechnik*. Presentation at: Austrian Energy EBS, Wien (eingeladen), 01.04.1998. 1998.
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- [45] Dietmar Dietrich and Peter Palensky. *Fieldbus Technology*. Presentation/Seminar at Perm State Technological University, Perm, Russia, 21.06.1998. 1998.
- [46] 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.
- [47] 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.
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- [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.
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