

# 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 Austria
Languages	German (native), English (fluent), Dutch (basic)
E-Mail	palensky@ieee.org

### Short Biography

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Peter Palensky is full Professor for intelligent electric power grids at TU Delft, Faculty for Electrical Engineering, Mathematics and Computer Science, Netherlands, working on mastering the complexity of smart, sustainable and flexible electric power systems. He also serves as Scientific Director of TU the Delft PowerWeb institute, a cross-faculty think tank for integrated and intelligent energy systems, and as Principle Investigator at the Amsterdam Metropolitan Solutions (AMS) institute.

He active in several international committees such as ISO, CIGRE, or IEEE. He serves as Editor-in-Chief of the IEEE Industrial Electronics Magazine (highest IF of all publications in this field) and associate editor for several other IEEE journals. He is financial advisor of the IEEE Industrial Electronics Society and member of several standing committees within the IEEE IES AdCom.

His career started as a research assistant at the Vienna University of Technology, Institute of Computer Technology, where he lead and conducted industrial projects in the area of energy systems automation from 1997 until 2001. 2001, after his PhD on distributed energy management he co-founded Envidatec GmbH, a Hamburg-based startup that delivers energy automation and analytics services. 2002 he became University Assistant at TU Vienna, was teaching "Microcomputer Architecture" and "Distributed Systems", and continued acquiring and leading projects such as EU- or nationally-funded research projects. In 2008 he joined the Lawrence Berkeley National Laboratory for 6 months research on wide area distributed energy management systems and demand response technology. He then became associate Professor at the University of Pretoria (UP), South Africa, Department of Electrical, Electronic and Computer Engineering, teaching "Information Security" and "Electronics Design and Manufacturing". Later he was appointed the first Principal Scientist of the Austrian Institute of Technology (AIT), leading a team of high-profile researchers on complex energy systems, and head of the 35-person business unit for sustainable buildings and smart cities.

## Biography

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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 and other publications. 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 50 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). At TU Delft he serves as Scientific Director of the cross-faculty PowerWeb institute, a think-tank for intelligent and integrated energy systems. His passion is with digitalization of the power system and energy processes in general. This includes SCADA, cyber-security, algorithms, controls, WAMPAC, DSM, and especially modeling and simulating these hybrid systems.

## 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.

1991 - 1997	Thesis: "Distributed reactive Energy Management": "Sehr Gut" (1) Vienna University of Technology (MSEE), Vienna, Austria.
1986 - 1991	Thesis: "Demand-Side-Management in private homes via LON": "Sehr Gut" (1) 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
2008 - 2009	Associate Professor, University of Pretoria, South Africa, Department of Electrical, Electronic and Computer Engineering.
2008	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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2020 - now	"Smart Grids: the basics" edX On-Line MOOC
2020 - now	"Smart Grids: modeling" edX On-Line MOOC
2017 - now	"Intelligent Electric Power Grids" (3 ECTS), TU Delft, Netherlands
2016 - now	"Energy Efficiency" (3 ECTS), TU Delft, Netherlands

### 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 scientific Director of TU Delft's PowerWeb Institute, 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

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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

**Past courses**

2017	“Intelligent Electrical Power Grids” GIAN course at NIT Tiruchirappally, India
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

**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

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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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2020	IEEE Conference on Innovative Smart Grid Technologies ISGT (general Co-Chair) IEEE International Symposium on Industrial Electronics ISIE (general Chair) IEEE Conference on Industrial Cyber-Physical System ICPS (Special Session Chair) IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General Chair)
2018	IEEE International Conference on Industrial Cyber-Physical Systems ICPS (Tutorial Chair) IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (General 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)
2016	IEEE Industrial Informatics INDIN 2017 (Tutorial Chair) Cyber-Physical Systems Week 2016 (Industrial Liaison Chair) IEEE Annual Conference of the IEEE Industrial Electronics Society 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 Annual Conference of the IEEE Industrial Electronics Society 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)

### Member of conference program committees, organized conference tracks \_\_\_\_\_

2020	IEEE International Conference on Smart Energy Systems and Technologies (SEST) 4th International Young Engineers Forum on Electrical and Computer Engineering (YEF-ECE) IEEE International Conference on Industrial Electronics (IECON) Track Power Systems and Smart Grids Doctoral Conference on Computing, Electrical and Industrial Systems (Do-cEIS)
2019	IEEE International Conference on Industrial Technology (ICIT) Track Power Systems and Smart Grids IEEE International Conference on Smart Energy Systems and Technologies (SEST) Energieinformatik
2018	IEEE International Conference on Industrial Electronics for Sustainable Energy Systems (IESES) 16th IEEE International Conference on Smart City (SmartCity) IEEE International Symposium 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)
- 2016  
IEEE Technologies for Smart Cities (TENSYPMP)  
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  
IEEE WFCS  
4th International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (masges)
- 2015  
IEEE Electric Power and Energy Conference (EPEC)  
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
- 2012
- Int. Conf. on Infocomm Technologies in Competitive Strategies ICT
  - 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

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	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")
	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

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2020 - now	Member of the Editorial Board Electricity journal (MDPI) Associate Editor IEEE Access
2019 - now	Associate Editor IEEE Open Journal of the Industrial Electronics Society Topic Editor energies journal (MDPI)
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)
2018 - 2019	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 (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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2019 - 2020	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

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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.)
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] Zhou Liu, Seyed Sattar Mirhosseini, Lian Liu, Marjan Popov, Kaiqi Ma, Weihao Hu, Sadegh Jamali, and Zhe Chen Peter Palensk and. "Contribution to the Development of HVDC Circuit Breaker Technologies". In: *IEEE Industrial Electronics Magazine (accepted)* (2022). ISSN: 1932-4529.
- [2] Xinghuo Yu, Changbing Tang, Peter Palensky, and Armando Colombo. "Blockchain: What Does It Mean to Industrial Electronics?: Technologies, Challenges, and Opportunities". In: *IEEE Industrial Electronics Magazine* (2022), pp. 2–12.
- [3] Jose J. Chavez, Nidarshan Veera Kumar, Sadegh Azizi, Jose L. Guardado, Jose Rueda, Peter Palensky, Vladimir Terzija, and Marjan Popov. "PMU-voltage drop based fault locator for transmission backup protection". In: *Electric Power Systems Research* 196 (2021), p. 107188. ISSN: 0378-7796.
- [4] Ayman Esmat, Martijn de Vos, Yashar Ghiassi-Farrokhfal, Peter Palensky, and Dick Epema. "A novel decentralized platform for peer-to-peer energy trading market with blockchain technology". In: *Applied Energy* 282 (2021), pp. 116–123. ISSN: 0306-2619.

- [5] Saran Ganesh, Arcadio Perilla, Jose Rueda Torres, Peter Palensky, Aleksandra Lekić, and Mart van der Meijden. "Generic EMT Model for Real-Time Simulation of Large Disturbances in 2 GW Offshore HVAC-HVDC Renewable Energy Hubs". In: *Energies* 14.3 (2021). ISSN: 1996-1073.
- [6] Saran Ganesh, Arcadio Perilla, Jose Rueda Torres, Peter Palensky, and Mart van der Meijden. "Validation of EMT Digital Twin Models for Dynamic Voltage Performance Assessment of 66 kV Offshore Transmission Network". In: *Applied Sciences* 11.1 (2021). ISSN: 2076-3417.
- [7] Jose Rueda Torres, Nidarshan Veera Kumar, Elyas Rakhshani, Zameer Ahmad, Ebrahim Adabi, Peter Palensky, and Mart van der Meijden. "Dynamic Frequency Support for Low Inertia Power Systems by Renewable Energy Hubs with Fast Active Power Regulation". In: *Electronics* 10.14 (2021). ISSN: 2079-9292.
- [8] Ajay Shetgaonkar, Aleksandra Lekić, José Luis Rueda Torres, and Peter Palensky. "Microsecond Enhanced Indirect Model Predictive Control for Dynamic Power Management in MMC Units". In: *Energies* 14.11 (2021). ISSN: 1996-1073.
- [9] Marco Stecca, Thiago Batista Soeiro, Laura Ramirez Elizondo, Pavol Bauer, and Peter Palensky. "Lifetime Estimation of Grid-Connected Battery Storage and Power Electronics Providing Primary Frequency Regulation". In: *IEEE Open Journal of the Industrial Electronics Society* 2 (2021), pp. 240–251. ISSN: 2644-1284.
- [10] M. H. Syed, E. Guillo-Sansano, Y. Wang, S. Vogel, P. Palensky, G. M. Burt, Y. Xu, A. Monti, and R. Hovsapian. "Real-Time Coupling of Geographically Distributed Research Infrastructures: Taxonomy, Overview and Real-World Smart Grid Applications". In: *IEEE Transactions on Smart Grid* 12 (2 Mar. 1, 2021), pp. 1747–1760. ISSN: 1949-3061.
- [11] C. Zhang, E. Rakhshani, N. Veerakumar, J. R. Torres, and P. Palensky. "Modelling and Optimal Tuning of Hybrid ESS Supporting Fast Active Power Regulation of Fully Decoupled Wind Power Generators". In: *IEEE Access* 9 (2021), pp. 46409–46421. ISSN: 2169-3536.
- [12] Zameer Ahmad, Jose R. Torres, Nidarshan Veera Kumar, Elyas Rakhshani, Peter Palensky, and Mart van der Meijden. "A Power Hardware-in-the-Loop Based Method for FAPR Compliance Testing of the Wind Turbine Converters Control". In: *Energies* 13.19 (5203 2020).
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### Talks, keynotes

- [1] Peter Palensky. *Cyber-blackouts and digital substations*. Keynote at International Conference on Electronics, Electrical and Information Engineering (ICEEIE) 2021. Oct. 15, 2021.  
 [2] Peter Palensky. *Cyber-Physical Security of Electrical Energy Systems*. Keynote at IEEE International Conference on Industrial Technology (ICIT) 2021. Mar. 11, 2021.  
 [3] Peter Palensky. *Cyber security of modern power systems*. Keynote at 4th International Conference on Information Technologies and Electrical Engineering (ICITEE) 2021. Oct. 30, 2021.  
 [4] Peter Palensky. *Digital Twins*. Presentation at CIGRE Netherlands "Blackout" Event. Mar. 25, 2021.  
 [5] Peter Palensky. *Digital Twins entering Power Systems*. Keynote at IEEE International Conference on Mechatronics (ICM) 2021. Mar. 7, 2021.  
 [6] Peter Palensky. *IEC61850 and Cyber-Physical Security of Power Systems*. Keynote at IEEE International Conference on Smart Grid (icSmartGrid) 2021. June 30, 2021.  
 [7] Peter Palensky. *Digital Twins and Control Engineering*. Panel presentation at 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe 2020). Delft/Virtual, 2020.  
 [8] Peter Palensky. *Modeling and Simulation of Cyber-Physical Power Systems*. Keynote at International Conference on Renewable Energy (ICREN) 2020. Rome/Virtual, Nov. 26, 2020.  
 [9] Peter Palensky. *Multi-System Modeling and Digital Twins*. Presentation at Panel "Accelerated climate change and the Food-Energy-Water-Nexus" at the 12th International Conference on Applied Energy (ICAEE 2020). Bangkok/Virtual, Dec. 4, 2020.  
 [10] Peter Palensky. *Digitalisierung und erneuerbare Energien verändern die Energiewirtschaft*. Keynote at KELAG Conference 2019. Velden, Nov. 6, 2019.  
 [11] Peter Palensky. *Digitalization and Renewables*. Keynote at IEEE PES Benelux Section Anniversary. Leuven, May 29, 2019.  
 [12] Peter Palensky. *Model-based design and operations of future energy systems*. Keynote at IEEE SGRE 2019. Doha, Nov. 19, 2019.  
 [13] Peter Palensky. *Modeling decentralized energy systems*. Invited Talk at "Decentralization and Energy - Perspectives on the Reciprocity of Energy Transitions and Decentralization". Delft, Jan. 24, 2019.  
 [14] Peter Palensky and Ties van der Heijden. *Control of flood defense infrastructure for demand response purposes*. IEEE Smart Grid Newsletter. Oct. 1, 2019.  
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 [16] Peter Palensky. *Co-simulation, PowerWeb and Cyber Security*. Keynote at TEG Symposium. Delft, 2018.  
 [17] Peter Palensky. *Digital Transformation and Cyber-physical Security of Energy Grids*. Keynote at ICD CIO Summit 2018. Bratislava, Sept. 2018.  
 [18] Peter Palensky. *How to model integrated energy systems*. Keynote at IEEE International Conference on Smart Energy Systems and Technologies (SEST). Sevilla, 2018.

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- [19] 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.
  - [20] Peter Palensky. *Modeling Smart Grids*. Ed. by Rolf Künneke et al. Keynote at Sustainable Urban Energy Systems. Delft, Nov. 8, 2018.
  - [21] Peter Palensky. *RTDS Interfacing for integrated power systems*. Presentation at IEEE SG4SC Smart Grids for Smart Cities Conference. Genk, Belgium, Nov. 27, 2018.
  - [22] Peter Palensky. *Smart Grids: Complexity, Digitization, and Models*. Keynote at INTELEC95 meeting 2018. Rhenen, Apr. 2018.
  - [23] Peter Palensky. *The power system of the future: Molecules, Bits, and Electrons*. Keynote talk at Symposium "Empowering Innovation Tomorrow by Basic Research Today". Vienna, June 2018.
  - [24] Rishabh Bhandia and Peter Palensky. *Improved grid reliability by fault anticipation techniques*. Poster presentation at PowerWeb Conference 2017. Delft, June 2017.
  - [25] Peter Palensky. *Electric Sustainable Energy Research in Netherlands*. Keynote Talk at The Institution of Engineers Trichy. Tiruchirappally, India, Dec. 2017.
  - [26] Peter Palensky. *Modeling and Simulation of Cyber-Physical Energy Systems*. Keynote Talk at National eScience Symposium. Amsterdam, 2017.
  - [27] Peter Palensky. *Modeling and simulation of intelligent electrical power grids*. Keynote at IEEE FEDCIS 2017. Prague, Sept. 2017.
  - [28] 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, Mar. 2017.
  - [29] Peter Palensky. *Co-Simulation of Intelligent Energy Systems*. Panel at IEEE PES General Meeting 2016. Boston, July 2016.
  - [30] Peter Palensky. *Cyber-Physical Energy Systems*. Invited talk at COSSE Workshop. Delft, Feb. 2016.
  - [31] Peter Palensky. *Hybrid Models for Agents in Cyber-Physical Energy Systems*. Keynote at 14th MATES Conference on Multiagent System Technologies. Klagenfurt, Sept. 2016.
  - [32] Peter Palensky. *Modeling and Simulation of Cyber-Physical Energy Systems*. Panel at IEEE ISGT 2016. Minneapolis, Sept. 2016.
  - [33] Peter Palensky. *Modelling of complex cyber-physical systems: concepts and methods*. Tutorial at IEEE EnergyCon 2016. Leuven, Apr. 2016.
  - [34] Peter Palensky. *Simulation of heterogeneous energy systems*. Keynote on IEEE PEMC. Varna, Sept. 2016.
  - [35] Peter Palensky. *Smart Integrated Energy Systems*. Keynote at Smarter Europe 2016. Essen, Feb. 2016.
  - [36] Peter Palensky. *The grid as platform*. Keynote talk at "An innovative truth". Eindhoven, June 2016.
  - [37] Peter Palensky. *Co-Simulation of heterogeneous Energy Systems*. Panel presentation at IEEE PES General Meeting 2015. Denver, 2015.
  - [38] Peter Palensky. *Cyber-physical Energy Systems*. Keynote IEEE Conference on Emerging Technologies in Factory Automation. Luxembourg, 2015.
  - [39] Peter Palensky. *Cyber-Physical Energy Systems*. Presentation at the Rotterdam School of Management open BIM Seminar. Rotterdam, 2015.
  - [40] Peter Palensky. *Modeling Intelligent Energy Systems*. Keynote at Smart Nord 2015. Hannover, Feb. 2015.
  - [41] Peter Palensky. *Modeling of complex cyber-physical systems: concepts and methods*. Tutorial at CIRED 2015. Paris, 2015.
  - [42] Peter Palensky. *Buildings, People, and the Grid*. Workshop Human-Centered Energy Management, AAU Klagenfurt. Klagenfurt, 2014.



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- [44] Peter Palensky. *Can IT replace energy storage?* Invited Talk at Frontiers of Information Technology FIT 2013. Islamabad, Dec. 2013.
- [45] Peter Palensky. *Co-Simulation of Complex Energy Systems*. Keynote Talk at Frontiers of Information Technology FIT 2013. Islamabad, Dec. 2013.
- [46] Peter Palensky. *Intelligent Energy Systems*. Invited Presentations at Young OVE Meeting 2013. Vienna, Apr. 2013.
- [47] Peter Palensky. *Kann IT Speicher ersetzen?* Keynote Talk at Konferenz Erneuerbare Energie 2013. Velden, Nov. 2013.
- [48] 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.
- [49] Peter Palensky. *Simulation of Cyber-Physical Energy Systems*. Invited Talk at DTU-RISOE PowerICT Workshop 2013. Copenhagen, Mar. 2013.
- [50] Peter Palensky. *Smart Cities*. Invited Talk at DTU-RISOE PowerICT Workshop 2013. Copenhagen, Mar. 2013.
- [51] Peter Palensky. *Challenges in Modeling Cyber-Physical Energy Systems*. Keynote Talk at "Frontiers of Information Technology" FIT 2012. Islamabad, Dec. 2012.
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- [55] Peter Palensky and Tarik Ferhatbegovic. *Sustainable Buildings and Controls*. Keynote at "Buildings under Control", October 2011, Vienna. Oct. 2011.
- [56] Peter Palensky. *ICT and Energy*. Keynote at KomForEn (Communication for Energy) 2010, 29. Sept 2010, Wels, Austria. 2010.
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- [58] Peter Palensky. *Neuro-bionic control of complex digital ecosystems*. Keynote at 3rd IEEE Conference on Digital Ecosystems, Istanbul, Turkey, 2009. 2009.
- [59] 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.
- [60] Peter Palensky. *Joint Endeavors of Psychoanalysts and Engineers*. Invited Talk at Frontiers of Information Technology, Bhurban, Pakistan. 2008.
- [61] 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.
- [62] Peter Palensky. *Communication Requirements for Demand Side Management and Microgrids*. Presentation at Nagoya 2007 Symposium on Microgrids. 2007.
- [63] Peter Palensky. *Energie und Kommunikation - ein Netzwerk der Koepfe*. Keynote at Informationstechnologien fuer optimierte, hochvernetzte Energiesysteme, Vienna, 4.10.2005. 2005.
- [64] Peter Palensky. *LonWorks: A General Purpose Control Network*. Invited Talk at TU Novi Sad & IEEE Joint Chapter IAS/IES/PELS (Novi Sad, Serbia & Montenegro, 22.5.2004). 2004.

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- [67] Peter Palensky. *Energy Management: Supply and Demand Strategies in the Open System Market*. Keynote at LonWorld 2003, Munich 15.-16.10.2003. 2003.
- [68] 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.
- [69] Peter Palensky. *On Interoperability and Intelligent Software Agents for Field Area Networks*. Presentation at FET 1999, Magdeburg. 1999.
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- [72] Dietmar Dietrich and Peter Palensky. *Fieldbus Technology*. Presentation/Seminar at Perm State Technological University, Perm, Russia, 21.06.1998. 1998.
- [73] 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.
- [74] 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).
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