2nd International Conference on

Future Electric Power Systems and the Energy Transition

February 3-8, 2019
Champéry, Switzerland

Invited Speakers

Petros Aristidou (Leeds, UK)*
Bassam Bamieh (UCSB, USA)*
Janusz Bialek (Skoltech, Russia)*
Florin Capitanescu (LIST, Luxembourg)*
Michael Chertkov (LANL, USA)*
Giancarlo Ferrari-Trecate (EPFL, Switzerland)*
Madeleine Gibescu (Utrecht, Netherlands)*
Oriol Gomis (Barcelona, Spain)*
Ian Hiskens (Michigan, USA)*
Wolfgang Hribernik (AIT, Austria)*
Gabriela Hug (ETHZ, Switzerland)*
Mihailo Jovanovic (USC, USA)*
Maryam Kamgarpour (ETHZ, Switzerland)*
Stefan Kettemann (Bremen, Germany)*
John Lygeros (ETHZ, Switzerland)*
Pierluigi Mancarella (Melbourne, Australia)*
Bogdan Marinescu (Nantes, France)*
Federico Milano (UCD, Ireland)*
Mario Paolone (EPFL, Switzerland)*
Alessandra Parisio (Manchester, UK)*
Christian Rehtanz (Dortmund, Germany)*
Luis Rouco (Madrid, Spain)*
Jacquelien Scherpen (Gröningen, Netherlands)*
John Simpson (Waterloo, Canada)*
Dirk Witthaut (Jülich, Germany)*

*= *confirmed*

Program Commitee

Janusz Bialek, Skoltech
Gabriela Hug, ETHZ
Florian Dörfler, ETHZ
Philippe Jacquod, HES-SO Valais
Giancarlo Ferrari Trecate, EPFL
Federico Milano, UCD

www.hevs.ch/epowersystems

swissgrid ETH zürich FNSNF Fonds national suisse Schweizerischer Nationalfonds Fondo nazionale svizzero Swiss National Science Foundation Hes·so Valais Wallis School of Engineering

General information

Important numbers

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Veronique Blatter-Robyr, administration	veronique.blatter@hevs.ch

Partner Hotels

Hôtel Suisse***, Rue du Village 55	Tel. +41 24 479 07 07 hotelsuisse@netplus.ch
Art.Boutique.Hotel Beau-Séjour***, Rue du Village 114	Tel. +41 24 479 58 58 info@beausejour.ch
Hotel des Alpes**, Rue du Village 9	Tel. +41 24 479 12 22 hoteldesalpes@bluewin.ch
Palladium, Route du centre sportif 1	Tel. +41 24 479 05 05 palladium@champery.ch

Conference center

Salle paroissiale de Champéry Chemin Dents-Blanches 28	Tel. +41 24 479 05 07

Wireless : ID : HESSO
password : 2019

Tourist Office (www.champery.ch)

Rue du Village 54	Tel. +41 24 479 05 50

Opening time : 8:30 to 12:00 & 13:30 to 18:00

During your stay

Torch light evening : Tuesday 5

Time	19:00
Meeting point	front desk of Hotel Suisse. Transfer by bus to the restaurant and walk back to Champéry, with torch light
Place	Cantine sur Coux, Route de Sur Coux 83, 1874 Champéry, phone +41 24 479 10 44
Menu	Salad, dry meet, röstis, apple pie
Fees	CHF 31.- to pay directly to the restaurant

For participant only : if you have booked your hotel room with half-board, don't forget to cancel your Tuesday's dinner.

Conference banquet : Wednesday 6

Time	19:00
Place	Café du Centre, rue du Village 58, phone +41 24 479 17 00
Menu	Valais platter (cheese, local air dried beef, cured ham and dried sausages) with mixed salad Raclette (melted cheese) Valaisan sorbet (apricot sorbet with apricot brandy) or fruit salad.

If you join the conference banquet and have booked your hotel room with half-board, don't forget to cancel your Wednesday's dinner.

Introduction to Curling : Thurday 7

Time	20:15
Meeting point	Palladium Champéry, reception desk
Place	Palladium Champéry, Sports & Cultural centre, phone +41 24 479 05 05
Fees	CHF 40.- per person to pay directly at the Palladium This price includes a two hours group lesson and special shoes.

There is a waiting list for this activity. If you registered and will not be able to participate, please let us know as soon as possible by e-mail (veronique.blatter@hevs.ch) or by speaking to Philippe Jacquod.

Ski, snowboard

Fees : from CHF 57.- (5 hours). See the brochure for all possibilities and details or www.telechampery.ch. 10 % reduction for a group of 13 people.

Ski rental : 4 shops in Champery to hire your equipment.

Berra sports : 20% discount on equipment rental (next to Hotel Suisse).

Other activities

Walking (possibility to take the cable-cars as a pedestrian), cross-country skiing, ski-touring, ice climbing, snowshoeing, horseback riding, paragliding, exhibitions, wellness (hotel National Resort & Spa)

Get all information about the activities you want to do at the Tourist office :

- Location : Rue du Village 54
- Opening time : 8:30 am to 12:00 & 13:30 to 18:30. Tel. +41 24 479 05 50

Programme

Sunday February 3

18:00	Welcome reception at Hotel Suisse, rue du Village 55
19:30	Normal dinner (individual)

Programme

Monday February 4

08:15	Welcome Address *Philippe Jacquod, HES-SO, School of Engineering*
	Dynamics and Stability Analysis I Moderator : Florian Dörfler
08:30	Nonlinear dynamics of aggregate load models *Ian Hiskens, University of Michigan*
09:00	Rigorous stability criteria on the third-order model for synchronous generators *Leonardo Rydin, Institute for theoretical Physics, University of Cologne/Jülich Forschungszentrum*
09:20	Stakes of geometric stability characterization for modern power systems *Matteo Tacchi, LAAS-CNRS*
09:40	Discussion
10:00	Coffee break
	Ancillary Services and Storage I Moderator : Saverio Bolognani
10:30	Influencing the Bulk Power System Reserve by Dispatching Power Distribution Networks using Local Energy Storage *Mario Paolone, Swiss Federal Institute of Technology of Lausanne*
11:00	Corrective power system control via adaptive closed-loop post-contingency corrective rescheduling combined with frequency control *Janusz Bialek, Skolkovo Institute of Science and Technology (Skoltech)*
11:30	Toward a third-life battery scenario? *Dimitri Torregrossa, Aurora's Grid /HEIA-FR*
11:50	Discussion
12:10	Lunch + afternoon break; ski or informal group discussions
16:00	Tea, coffee, snacks
	Learning Methods Moderator : Giancarlo Ferrari-Trecate
16:15	Data-driven decentralised control design in distribution networks *Petros Aristidou, University of Leeds*
16:45	Learning from power system data stream: phasor-detective approach *Michael Chertkov, Los Alamos National Laboratory*
17:15	Supervised and transfer learning methods to assist energy system optimization *Dasun Perera, LESO-EPFL*
17:35	Discussion
17:55	End of afternoon session
19:00	Normal dinner (individual)
20:15	Poster Session, Hotel Suisse, rue du village 55

Programme

Tuesday February 5

	Dynamics and Stability Analysis II Moderator : Philippe Jacquod
08:30	A Theory of Solvability for Lossless Power Flow *John Simpson-Porco, University of Waterloo*
09:00	Resistance Centralities Identify Local Vulnerabilities in Electric Power Grids *Melvyn Tyloo, HES-SO Valais-Wallis, School of Engineering*
09:20	Stochastic dynamics in power systems *Dirk Witthaut, FZ Jülich*
09:50	Discussion
10:10	Coffee break
	Low Inertia I Moderator : Pierluigi Mancarella
10:40	Aggregated Modeling of Power Park Modules and Distributed Generation *Bogdan Marinescu, Ecole Centrale Nantes*
11:20	Dispatchable Virtual Oscillator Control: Analysis and Experiments *Dominic Gross, ETH Zurich*
11:40	Propagation of Wind Power Induced Fluctuations in Power Grids *Hauke Haehne, University of Oldenburg*
12:00	Discussion
12:20	Lunch + afternoon break; ski or informal group discussions
16:00	Tea, coffee, snacks
	Market and Policies Moderator : Mihailo Jovanovic
16:15	The role of local markets and storage in future power systems: Results from recent work and questions for future research *Madeleine Gibescu, Utrecht University*
16:45	Design and analysis of electricity market mechanisms *Maryam Kamgarpour, ETH Zurich*
17:15	Decarbonisation of Industrial Energy Systems – impact on the power sector and related infrastructure *Wolfgang Hribernik, AIT Austrian Institute of Technology*
17:45	Discussion
18:05	End of afternoon session
19:00	Mountain restaurant dinner (if you registered and received a confirmation by e-mail) or normal dinner

Programme

Wednesday February 6

	Control I Moderator : Bassam Bamieh
08:30	Input-Output Analysis and Sparsity-Promoting Optimal Control of Inter-Area Oscillations in Power Systems *Mihailo Jovanovic, University of Southern California*
09:00	Security management in sustainable electric power systems of the future *Florin Capitanescu, Luxembourg Institute of Science and Technology (LIST)*
09:30	Distributed and passivity based control in DC micro grids *Jacquelien Scherpen, University of Groningen*
10:00	Discussion
10:20	Coffee break
	Dynamics + Stability Analysis III Moderator : Ian Hiskens
10:50	Model-Agnostic Linear Estimation of Generator Rotor Speeds based on Phasor Measurement Units *Federico Milano, University College Dublin*
11:20	Propagation of Disturbances in Power Grids *Stefan Kettemann, Jacobs University*
11:50	Discussion
12:10	Lunch + afternoon break; ski or informal group discussions
16:00	Tea, coffee, snacks
	Ancillary Services and Storage II Moderator : Janusz Bialek
16:15	Optimal coordination of distributed battery energy storage systems to support grid flexibility *Alessandra Parisio, The University of Manchester*
16:45	Provision of Ancillary Services by Distributed Energy Resources: The Case of Voltage Control *Gabriela Hug, ETH Zurich*
17:15	Application of Smart Monitoring and Control devices in the Low Voltage Utility Grid *Mauro Carpita, HES-SO, School of Management and Engineering Vaud*
17:35	Discussion
17:55	End of afternoon session
19:00	Conference banquet at Café du Centre, rue du village 58

Programme

Thursday February 7

	Control II Moderator : Jacquelien Scherpen
08:30	Limits of Performance in Large-Scale Networks due to Architectural Constraints *Bassam Bamieh, University of California, Santa Barbara*
09:00	Advancements in Distributed Power Flow Control *Christian Rehtanz, TU Dortmund University*
09:30	Control of microgrids with flexible structure: a passivity framework *Giancarlo Ferrari-Trecate, EPFL*
10:00	Discussion
10:20	Coffee break
	Low Inertia II Moderator : Federico Milano
10:50	Resilience in low-carbon power systems: Do we need a stronger, bigger, or smarter grid? *Pierluigi Mancarella, The University of Melbourne*
11:20	Dynamic Droop Control for Low Inertia Power Systems: Performance Trade-offs and Controller Design *Enrique Mallada, Johns Hopkins University*
11:40	Finite-time estimation of time-varying frequency signals in low-inertia power systems *Johannes Schiffer, Brandenburgische Technische Universität*
12:00	Discussion
12:20	Lunch + afternoon break; ski or informal group discussions
16:00	Tea, coffee, snacks
	Power Electronics Moderator : Tbd
16:15	Damping controllers of Subsynchronous Oscillations for Doubly Fed Induction Generators *Luis Rouco, Universidad Pontificia Comillas*
16:45	Power systems dominated by power electronics *Oriol Gomis-Bellmunt, CITCEA-UPC*
17:15	Control of HVDC transmission systems *Karl Johansson, KTH Royal Institute of Technology*
17:35	IOT Opportunities and Challenges in Power Distribution *Nikola Fischer Celanovic, Typhoon HIL GmbH*
17:55	Discussion
18:15	End of afternoon session
19:00	Normal dinner (individual)
20:15	Curling initiation (if you registered and received a confirmation by e-mail)

Programme

Friday February 8

	Ancillary Services and Storage III Moderator : Bogdan Marinescu
08:30	Coordination and control in district energy management *John Lygeros, ETH Zurich*
09:00	Feedback-Based Power System Optimization with Time-Varying Constraints *Adrian Hauswirth, ETH Zurich*
09:20	A feedback approach to real-time power system operation *Saverio Bolognani, ETH Zurich*
09:40	Discussion
10:00	Coffee break
	Multi Energy Systems Moderator : Gabriela Hug
10:30	Combined gas and electric power networks - Reserve scheduling and seasonal storage *Giovanni Sansavini, ETH Zurich*
10:50	hynet: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems *Matthias Hotz, Technische Universität München*
11:10	Discussion
11:30	Concluding address – End of conference

Poster session

Monday 6, at 20:15, Hotel Suisse

First/Last Name	Institution	Title
Sultan Alghamdi	University of Leeds	Delay-Robust Distributed Secondary Frequency Control
Riccardo Remo Appino	Karlsruhe Institute of Technology	Scheduling a population of energy-constrained DER: single devices vs aggregated models
Catalin Arghir	ETH Zurich - Automatic Control Lab	An energy-based framework for multi-converter system control design
Daniel Bankmann	TU Berlin	Model order reduction for power networks in port-Hamiltonian differential-algebraic form
Manuel Baumann	Max Planck Institute for Dynamics of Complex Technical Systems	Complexity Reduction for Power Flow Simulations
Joakim Björk	KTH Royal Institute of Technology	Coordinated HVDC Control for Power Oscillation Damping
Philipp Böttcher	DLR Institute of Networked Energy Systems	Time delay effects in the control of synchronous electricity grids
Conleigh Byers	ETH	Additional Capacity Value Gained from Synergy of Variable Renewable Energy and Energy Storage
Robin Delabays	HES-SO Valais-Wallis	Bounding the desynchronization time in complex electrical grids under fluctuating energy sources
Stefanos Delikaraoglou	ETH Zurich	Information sharing for independent scheduling of electricity and natural gas systems
Alexander Engelmann	Karlsruhe Institute of Technology (KIT)	Distributed Optimal Power Flow: Feasibility vs. Optimality in ADMM and ALADIN
Timm Faulwasser	Karlsruhe Institute of Technology	Stochastic OPF and Polynomial Chaos
Linbin Huang	Automatic Control Laboratory, ETH Zurich	Damping Low-Frequency Oscillations Through VSC-HVDC Stations Operated as Virtual Synchronous Machines
Aleksandar Jovicic	ETH Zurich	A Linear Formulation for Power System State Estimation including RTU and PMU Measurements
Franz Kaiser	Forschungszentrum Jülich	Non-Local Impact of Line Outages in Linear Flow Networks

Poster session

First/Last Name	Institution	Title
Stavros Karagiannopoulos	ETH Zurich - Power Systems Laboratory	Data-driven Local Control Design using Optimization and Machine Learning Techniques
Deep Kiran	ETH Zurich	Decomposition of Market Settlement Surplus in Optimal Power Flow
Uros Markovic	ETH Zurich - Power Systems Laboratory	To be decided
Riccardo Morandin	TU Berlin	Energy-based hierarchical modeling for power networks
Alexander Murray	Karlsruhe Institute of Technology	Towards Distributed Mixed Integer Optimization in Energy Systems
Pulkit Nahata	EPFL	Hierarchical control of microgrids with flexible structures
Conor O Malley	ETH Zurich	Natural Gas System Dispatch Accounting for Electricity Side Flexibility
Laurent Pagnier	EPFL/HES-SO	Disturbance propagation in large transmission grids
Anton Plietzsch	Potsdam-Institute for Climate Impact Research	Linear Response Theory for Fluctuations in Lossy Power Grids
Christoph Schaub	Typhoon HIL GmbH	IOT Opportunities and Challenges in Power Distribution
Horst Schulte	University of Applied Sciences Berlin (HTW)	Robust Control Design of Grid-Side Converter: An LMi Approach
Felix Strehle	Karlsruhe Institute of Technology (Institute of Control Systems (IRS))	A Port-Hamiltonian Approach to Plug-and-Play Voltage Stabilization in DC Microgrids
Irina Subotic	ETH Zurich	Decentralized Synchronization of an Inverter Based Grid
Ali Tayyebi	AIT Austrian Institute of Technology GmbH	Grid-Forming Converter Control Techniques and Interactions with Synchronous Generators -- A Comparative Study
Mustafa Sahin Turan	EPFL	Distributed Watermarking for Secure Control of Microgrids Under Replay Attacks
Johanna Vorwerk	ETH Zurich	Stability Analysis of Converter Control Modes in Low-Inertia Power Systems
Thierry Zufferey	Power System Lab, ETH Zurich	Short-term load forecasting in low-voltage grids

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Personal notes

Personal notes

A special thanks to our partners
for their support.

Hes·so VALAIS WALLIS
School of Engineering

FNSNF
Fonds national suisse
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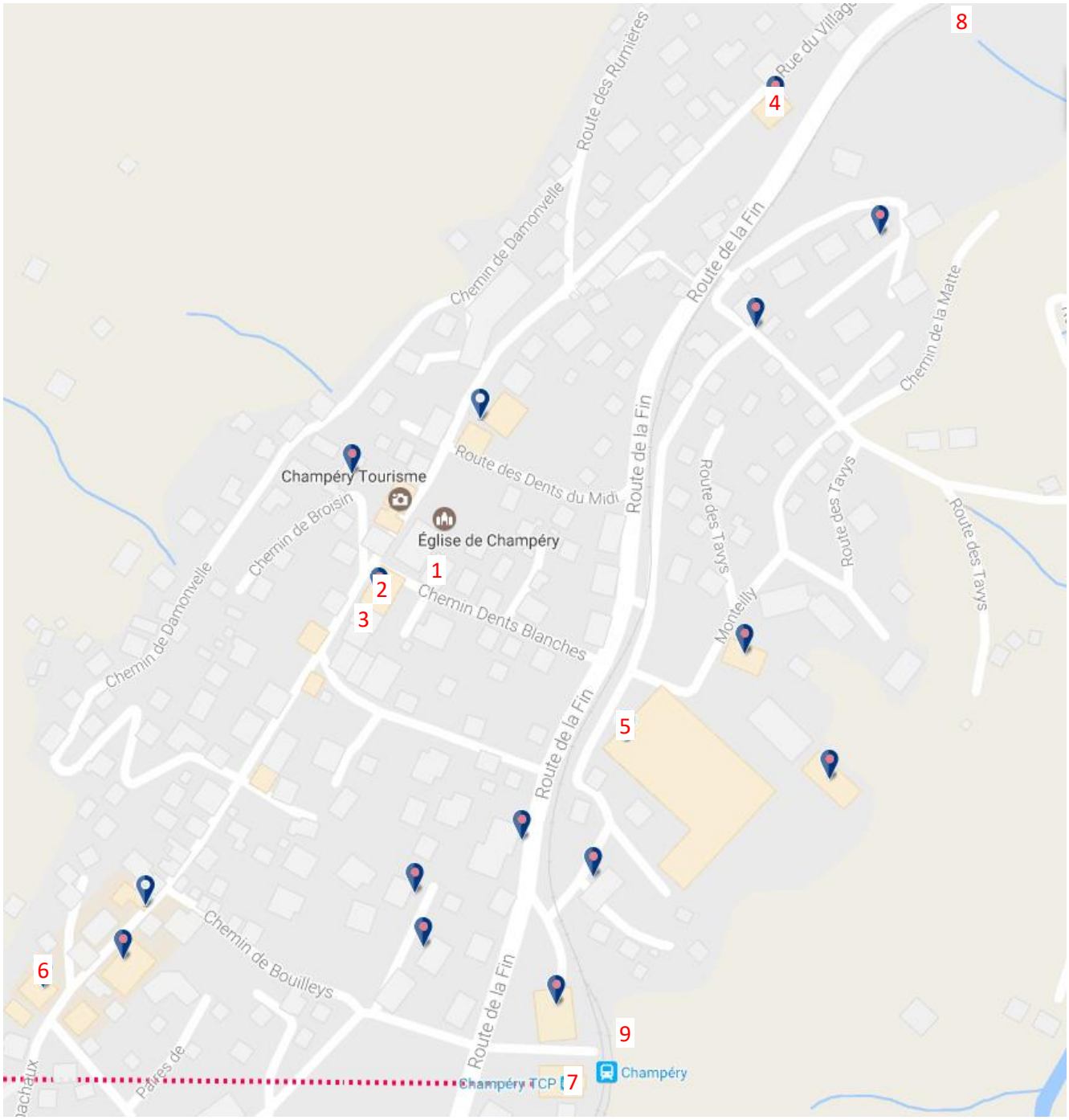
Map of Champéry



1. Conference room : salle paroissiale
2. Hotel Suisse (welcome party)
3. Café du Centre (Conference buffet)
4. Hotel des Alpes
5. Hotel Palladium
6. Art.Boutique Hotel Beau-Séjour
7. Cable-cars station
8. Railway station AOMC Champéry village
9. Railway station AOMC Champéry