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SCCER-FURIES special session

The SCCER-FURIES invites its partners to a special session on center's activities at the [SPEEDAM conference](#) on June 24-26, 2020 in Sorrento (IT). The proceedings of the conference will be available on IEEEExplore. If interested in submitting a paper, please provide with your paper's title to [Prof. Dr. Mauro Carpita](#)



Featured Article

Season greetings

While we start 2020, we would like to look back to a busy and exciting year for SCCER-FURIES.

2019 was a fruitful year with numerous achievements thanks to the great efforts of our partners. This includes definitely the development and validation of innovative solutions, but also close collaboration among partners and efficient exchange and transfer of knowledge. This latter element demonstrates the added value of the competence center and justifies its raison d'être. Measurable progress has been achieved in all the areas of SCCER-FURIES'

mission, namely Education, Research, and Innovation, along with collaborations. In terms of education and capacity building, in 2019 our activities grew by 30% through incorporation of further [digitalization aspects](#). In total, 231 experts developed their capabilities within the frame of the SCCER-FURIES. A series of well-attended events were organized, notably our Annual conference in Aarau with around 150



participants and 4 technical workshops in Rapperswil; in Genova (IT); in Bern; and in Winterthur. In terms of research, 29 new projects were launched and added on the more than [120 projects](#) initiated in the frame of the SCCER-FURIES. Tangible outcomes include 4 applications for new patents submitted and 1 license granted; 19 new prototypes and demonstrators put in operation across Switzerland; and 19 innovative products, processes and services and 28 models developed In terms of Innovation and Knowledge transfer, 42 direct exchanges with industrial partners were held; the [White paper on the DC technologies](#) was published; 2 new spin-offs were established; and scientific results were published in 4 books; 60 journal peer-reviewed papers; and 80 conference peer reviewed papers published In terms of collaborations, 2019 was the outreaching year by doubling the number of international collaborations to 75. This was in addition to our collaboration with 39 new industrial partners in country and all the other SCCERs. [8 new partners](#) joined the center notably related to our digitalization expansion. Putting these numbers in perspective, this year our International Evaluation panel had no binding requirements for improvement while acknowledged the “high scientific and technical and technical quality” of our results; “a very good combination of fundamental research, application-oriented demonstrators and industry collaboration” achieved; and the fact that the SCCER-FURIES has “become a true centre of competence”. We are looking forward to continue collaborating with you for another exciting year.

Recent Achievements



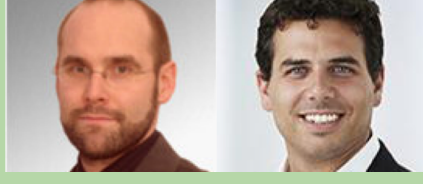
Outreach: Annual conference

On October 21st, the 6th SCCER-FURIES Annual Conference was successfully held in Aarau in close collaboration with our industrial partner Swissgrid. Around 150 participants attended the conference where 12 oral and more than 40 poster presentations were exhibited. Mr. Zimmerman (CEO of Swissgrid) gave the key note speech and colleagues from Swissgrid presented their work in various sessions.



New project: XFLEX HYDRO

On December 10th, the European Commission announced at the United Nations climate change conference (COP25) in Madrid, Spain the launching of the XFLEX HYDRO (Hydropower Extending Power System Flexibility) project. This €18M project aims to demonstrate how modern hydropower plants can provide the vital power grid services required by variable renewables. Four FURIES academic partners and two industrial are involved, namely EPFL-DESL (who leads this project), EPFL-LMH, EPFL-PEL, HES-SO VS, Alpiq, and ANDRITZ HYDRO. Further information about the project is provided [here](#).



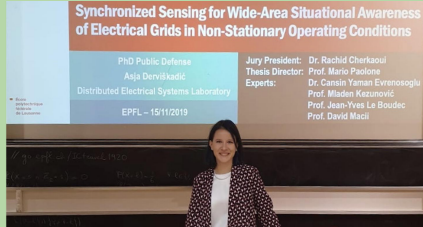
Promotion: Profs. Biela and Sansavini become Full and Associate Professor

On December 11th, the ETH board announced the promotion of two SCCER-FURIES partners at ETHZ, Prof. Dr. Jürgen Biela and Prof. Dr. Giovanni Sansavini. Prof. Biela, who contributes to the WP3, was nominated Full Professor of High Power Electronics and Prof. Sansavini, who contribute to the WP2, Associate Professor of Reliability and Risk Engineering. Capacity building is at the core of the SCCER-FURIES mandate and we are glad to see our partners evolving. Please join us in congratulating Prof. Biela and Prof. Sansavini. Further information is accessible [here](#).



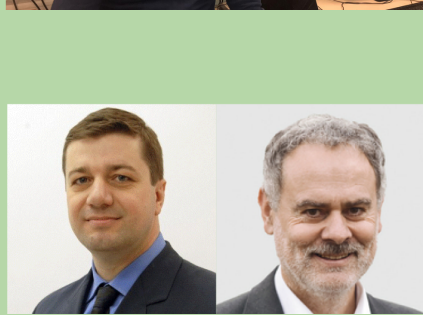
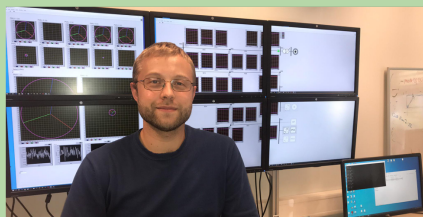
Representation: Dr. Schuepbach at the national Commission for Air Hygiene

On November 27th, the Swiss Federal Council re-elected Dr. Eva Schuepbach (BFH-PVLab) as a Member of the Swiss Federal Commission for Air Hygiene for the period 2020-2023. This representation is a part of a multi-channel dissemination of the SCCER-FURIES outcomes to the policy makers. Please join us in congratulating [Dr. Schuepbach](#) for this nomination.



Awards: Best thesis Awards

In November, two of the SCCER-FURIES PhD students received the EPFL awards for their PhD thesis. Dr. Asja Derviškadić and Dr. Andreas Kettner received the EPFL PhD thesis Distinction from the Electrical Engineering and Energy doctoral programs respectively. Dr. Derviškadić thesis is entitled "Synchronized Sensing for Wide-Area Situational Awareness of Electrical Grids in Non-Stationary Operating Conditions" and Dr. Kettner' one "Real-Time State Estimation and Voltage Stability Assessment of Power Grids: From Theoretical Foundations to Practical Applications". Links to the Thesis are here: [Dr. Derviškadić](#) and [Dr. Kettner](#)



Announcement: WP4 leadership

For 2020, Prof. Urs Muntwyler (BFH-PVLab) takes over the leadership of the WP4 of the SCCER-FURIES. Prof. Muntwyler kindly accepted to step-up following Prof. Jasmin Smajic's announcement of his intention to resign from his role due to career path change. Prof. Smajic's group will remain active in SCCER-FURIES activities till the end of 2020. We would like to thank Jasmin for his great contribution to making SCCER-FURIES a success and looking forward to further collaborating with Prof. Muntwyler.

Upcoming Events and Opportunities

Drop here Events

Please check out the list of upcoming events related to the smart grids and energy markets.

JANUARY 2020

[Swiss Congress of Electricity](#)

16-17.01.2020, Bern, CH

[7th Symposium Thermal Energy Storage](#)

24.01.2020, Lucerne, CH

[Sozialwissenschaften und Praxis im Dialog](#)

30.01.2020, Basel, CH

JUNE 2020

[SPEEDAM](#)

24-26.06.2020, Sorrento, IT

Funding Opportunities

[\(ERA-NET\) SOLAR-ERA.NET Cofund 2](#)

Deadline: 29.01.2020

[\(SNSF\) Post-Doc Mobility](#)

Deadline 1.02.2020

[\(SNSF\) Eccellenza](#)

Deadline 1.02.2020

[\(SNSF-Innosuisse\) Bridge-Discovery](#)

Deadline (letter of intent) 24.02.2020

[\(SFOE\) Power grids](#)

Deadline (pre-proposal) 24.02.2020

[\(Innosuisse\) NTN Innovation Buster](#)

Deadline: 28.02.2020

[\(SNSF\) Doc.Mobility](#)

Deadline 1.03.2020

[\(SNSF\) Early Postdoc.Mobility](#)

Deadline 1.03.2020

[\(SNSF\) SPIRIT](#)

Deadline: 31.03.2020- rolling call for pre-proposals



[Power Systems Computation](#)

[Conference 2020](#)

29.06 - 03.07.2020, Porto,

Portugal

AUGUST 2020

[Smart energy](#)

28.08.2020, Sion, CH



Job Opportunities

[Power Electronics junior](#)

[engineer](#)@HEIG-VD

[Professor or Assistant Professor](#)

[\(Tenure Track\) of Cyber-Physical](#)

[and Embedded Systems](#) @ ETHZ

[Professor or Assistant Professor of](#)

[Electronics](#) @ ETHZ

[Assistant Professor \(Tenure Track\)](#)

[of Smart Building Solutions](#) @ETHZ

[Research Associate Energy](#)

[Research 80-100%](#) @HSLU

[Senior Project Engineer](#) @ABB

[Projektingenieur/in Schutztechnik](#)

[Energy Automation 80-](#)

[100%](#) @Siemens

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You will find there news and info about new projects and partners, job opportunities and current events.

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Knowledge Hub

You need information about the project within SCCER-FURIES?

You will find information

on Partners, Projects and Projects' Outcomes on our Knowledge Hub

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