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[Data+Service] Newsletter 05/2019

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29 May 2019 at 15:41

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Swiss Alliance for
Data-Intensive Services

Newsletter #5 29.05.2019

Welcome to this month's Newsletter!

Learn about 2 new [Topic Leaders](#), from our Academic member institutes. Get in touch with us if your institute could be a topic leader.

Final registration call for [SDS2019 and GeoSpatial Data Day 2019](#).

Do not miss the upcoming events & Expert Group meetings, and keep an eye on [our website](#) for all events.

Questions, remarks or contributions for the newsletter? Reach out to [the editors](#).

Happy reading!

The Editors

[Make sure to scroll all the way down -- don't-miss-it-goodie at the end!](#)

Upcoming Expert Group Meetings

13.06.2019 - Spatial Data Analytics Expert Group meeting #4

11:00 - 12:00, Location: BFH, Brückenstrasse 73, Bern. Find information [here](#).

24.06.2019 - Machine Learning Clinic Expert Group meeting

15:50 - 19:00, Location: CSEM, Rue Jacquet-Droz 1, 2002 Neuchâtel. Find information [here](#).

27.06.2019 - Data-Driven Business Model Expert Group

16:30 - 19:30, Location: Au Premier, HB Zurich

Check our [events page](#) for all Expert Group meetings.

Upcoming Alliance Events

13.06.2019 - GeoSpatial Data Day 2019 (SDS2019 Pre-Conference event)

12:15 - 19:00, Location: Berner Fachhochschule BFH, Brückenstrasse 73, Bern. Find more information [here](#).

14.06.2019 - 6th Swiss Conference on Data Science (SDS2019)

08:30 - 18:00, Location: Kursaal Bern. Find more information [here](#).

18-19.06.2019 - Swiss Text 2019

Location: ZHAW, Eulachpassage Winterthur. Find more information [here](#).

Join the [NLP workshop](#), presented by our members SwissRe & ISIN SUPSI.

24.06.2019 - Smart Data und künstliche Intelligenz - Wie schaffen wir Nutzen für unsere Kunden?

18:00 - 19:30, Location: Pädagogische Hochschule Zürich (Europaallee, next to the train station) Room LAA-G001. Find more information [here](#).

Check our [events page](#) for all events.

SDS2019 & GEOSpatial Data Day 2019



[SDS2019](#) regular registrations end on 07.06.2019

[GEOSpatial Data Day 2019](#) only few spaces left

Register now!

Data+Service Industrial members - don't forget to use your Flex budget to register! [Contact us](#) if so.

Topic Leader: IDP, ZHAW (main contact: Christoph Heitz)

Topic: Smart Services, Predictive Maintenance, and Statistical Data Analysis

Since nearly 20 years, the Institute of Data Analysis and Process Design (IDP) focuses on harvesting the potential of data in various business applications. Its main competencies are in statistical data analysis and design of business processes in the context of digitalization. Within Data+Service, IDP is the leading academic institution in three topic areas:

- Smart Services
- Predictive Maintenance
- Statistical Data Analysis

Smart Services: IDP has many years of experience in digital innovation projects, in particular with SMEs, with the objective to design customer-centric digital services. The combination of data science and service design is a core element of our approach, enabled by the unique mix of competencies in customer-centred service design, data analysis and business processes. The leading question is: Which user jobs or challenges can be improved by data-driven services and how can such services be concretely implemented? The field of smart service engineering is represented by Dr. Jürg Meierhofer (lead of the Smart Services Expert Group), Dr. Thomas Herrmann and Prof. Dr. Christoph Heitz.

Predictive Maintenance: We develop algorithms and tools to improve maintenance operations by data-based decision making. Data science methods (machine learning, statistical modeling) give new insights, but this has to be plugged in into maintenance processes. This is enabled by our strong background in maintenance engineering with more than 15 years research experience and a leading role among Swiss universities.

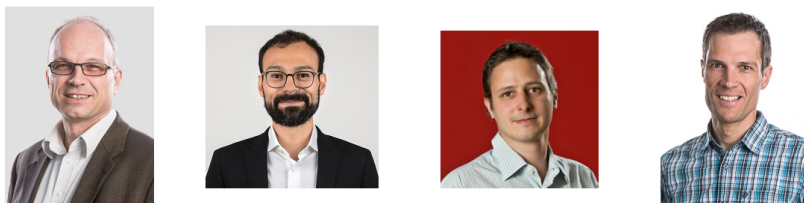
This field is represented by Dr. Lilach Goren (lead of the Predictive Maintenance Expert Group), Dr. Braulio Barahona (lead of the Predictive Maintenance Expert Group), and Prof. Dr. Christoph Heitz

Statistical Data Analysis: Applied statistics in real-world applications is a core competency of the IDP, with around 15 researchers and nearly 20 years research history. We use classical statistical methods such as Generalized Linear Models and Random Forest, but also machine learning techniques.

Involved persons:



Jürg Meierhofer Christoph Heitz Lilach Goren René Locher Matthias Templ Thoralf Mildenberger Thomas Herrmann



Andreas Ruckstuhl Braulio Barahona Helmut Grabner Marcel Dettling

Selected research project(s)

Smart Services:

- [Data Science für KMU \(Data4KMU\)](#)
- [Development of a station-independent e-bike sharing service with user co-production](#)

Predictive Maintenance

- [Machine Learning Based Fault Detection for Wind Turbines](#)
- [Decision Support System For Predictive Maintenance of Laser Cutting Machines](#)

Statistical Data Analysis in different business-related application fields

- [Entwicklung von Algorithmen zur Analyse von Fussballspielern und Spielsituationen anhand von Bewegungsdaten](#)
- [Umsatzprognosen für die Gastronomie](#)
- [Predicting customer behavior by combining freetext information with structured customer data](#)

Find all [Topic Leaders on the website](#).

Topic Leader: AGM, ZHAW (main contact: Michael Lustenberger)

Topic: Blockchain in Supply Chain

In 2015, the ZHAW Center of Enterprise Development (Website) started to build up a competence group in 'Blockchain in Supply Chain Management'. The group is currently focusing on different Blockchain projects and is regularly present as speakers at conferences. In 2018, they founded the Swiss Alliance Expert Group 'Blockchain Technology in Supply Chain Management' (<https://data-service-alliance.ch/expertise/expert-groups>) which is currently co-led by the group. The Center of Enterprise Development works closely with companies to understand and explore the potential of Blockchain technologies for supply chains.

Involved persons

**Michael Lustenberger****Florian Spychiger****Sasa Malesevic**

Teaching, training and further education

The Center for Enterprise Development offers an elective module 'Business Value of Blockchain' for Bachelor of Science in Business Administration, Business Information Technology and International Management. In addition, the Center of Enterprise Development offers Continuing Education in the form of a continuing education course in 'Blockchain for Business Applications' (WBK BGA) and a Blockchain module within the Certificate of Advanced Studies Digital Strategy and Creation of Value (CAS DSW).

Research Topics

Blockchain technologies in supply chain management, Blockchain technologies for business ecosystems, industry 4.0 & digital transformation, supply chain management, lean management.

Selected projects

- Co-leading the Expert Group 'Blockchain Technology in Supply Chain Management'
- Research project 'Blockchain technology in a pharma supply chain' on the base of Hyperledger Fabric
- Research Project 'Blockchain technology for an audit trail in a food supply chain' on the base of Ethereum
- Student projects in cooperation with different companies like WWF, Bossard AG, Avrios AG, Büchi, etc.

Selected publications

Lustenberger, M., Spychiger, F. & Taylor, M. (im Druck). Optimierung des Supply Chain Informationsaustauschs mit Blockchain-Startups, in Digitalisierung in der Praxis: So schaffen KMU's den Weg in die Zukunft, Wiesbaden: Springer.

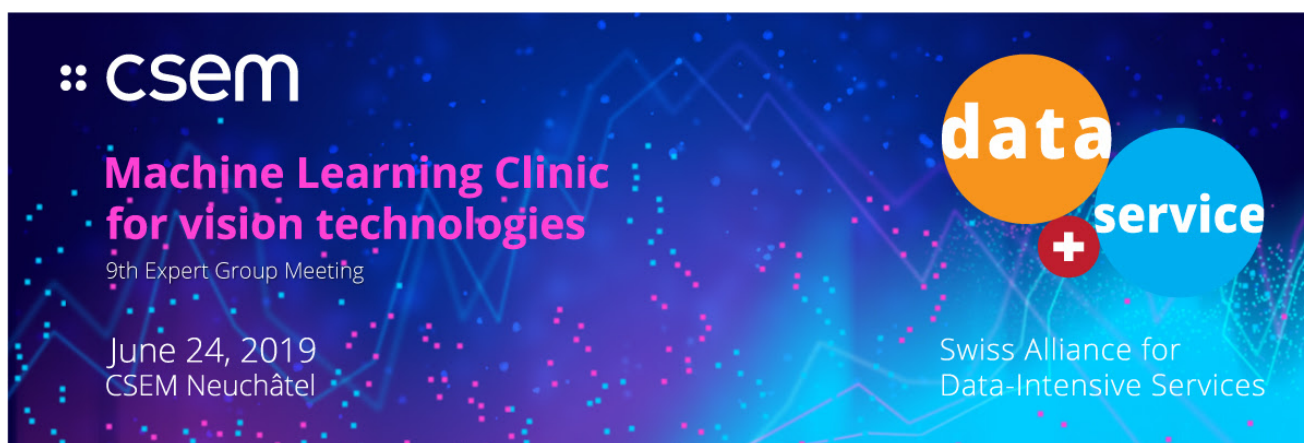
Lustenberger, M. (2018). Blockchain-Technologie im Supply Chain Management. In: F&E-Konferenz zur Industrie 4.0, Brugg-Windisch, 15. Januar 2018.

Zavolokina, L., Spychiger, F., Tessone C. J. & Schwabe, G. (2018). Incentivizing Data Quality in Blockchains for Inter-Organizational Networks – Learning from the Digital Vehicle Dossier, ICIS International Conference on Information Systems 2018.

Lustenberger, M. (2017). Blockchain-Technologie in Supply Chain Management. In: Zweite F&E Konferenz zur Industrie 4.0, Winterthur, 11. Januar 2017.

Find all [Topic Leaders on the website](#).

Machine Learning Clinic Expert Group meeting on "Vision Technologies"



Together with CSEM, we are looking forward to meet you to the 9th Expert Group Meeting on [Machine Learning Clinic for vision technologies](#).

During this event we will follow our 'interactive format' with local companies coming to present in a workshop environment their experiences of Machine Learning for Vision Technologies. We aim to explore: What can practically be done today with vision technologies and its data? What are the challenges facing companies in implementing this game changing technology? How can the latest advances in hardware and algorithms help bring vision technologies to companies and quickly?

Stay tuned for program update [here](#).

Horizon 2020 Final Call! by Euresearch

With particular interest to our Academic members! Be prepared for the last funding opportunity in FP8 in the EU project scheme.

Register today for [Euresearch's](#) information event "[Horizon 2020: Final Call](#)"!

The aim of this event is to inform all interested stakeholders in Switzerland about funding opportunities for the remaining year of Horizon 2020.

Location: [EVENTFabrik](#), Fabrikhalle 12, [Fabrikstrasse](#) 12, 3012 Bern

Detailed [agenda here](#).

Data Science Read of the Month

Das Beste zum Schluss

Beware! Data Science Technology in Finance will not let you do any Fraud

<https://towardsdatascience.com/beware-data-science-technology-in-finance-will-not-let-you-do-any-fraud-56a1f183dbf2>

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