

# Current Topics in Data Engineering

## Schedule Current Topics in Data Engineering 2019

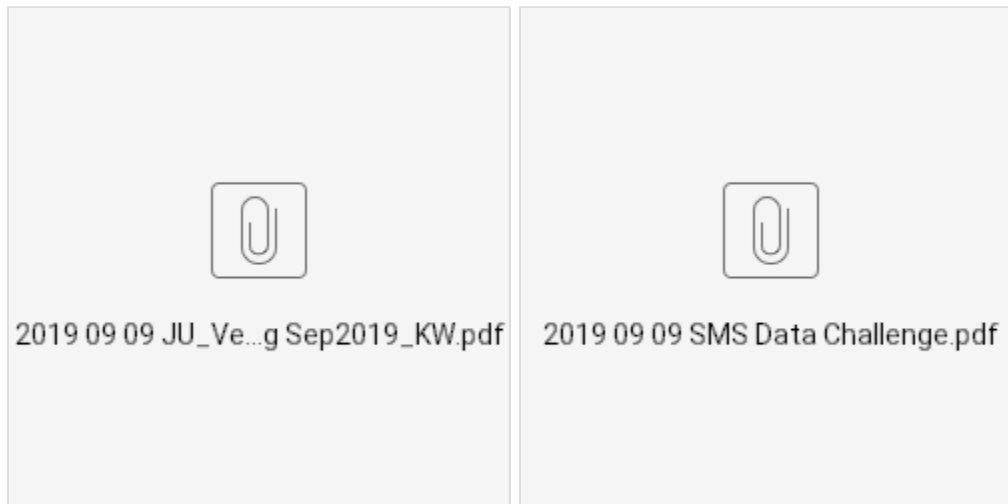
Tu 3. 9. 2019 9:45 Stefan Kettemann, **Introduction, Lecture Hall Research III**

Fr 13. 9. 9:45 Katja Windt, Dirk Lieftucht, SMS Digital **Lecture Hall Research II**

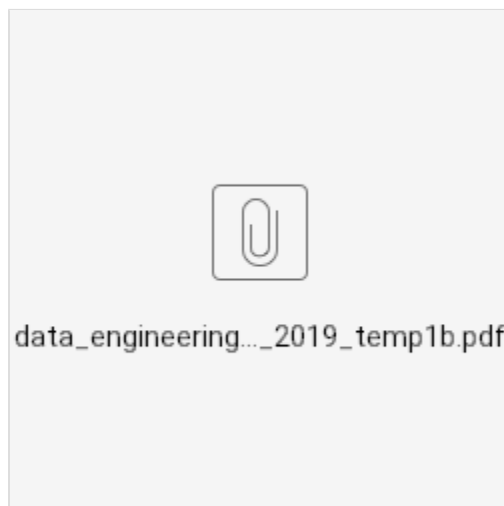
### SMS Data Challenge 3.0

Data Science meets Steel Industry – an exciting match of heavy metal and high tech

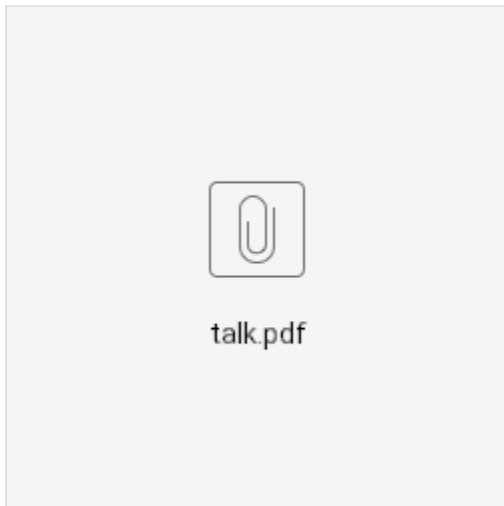
for details click on the DE Blog



Tu 17. 9. 2019 9:45 Marc-Thosten Hütt, Bio-Informatics and Systems Biology, **Lecture Hall Research III**



Fr 20. 9. 9:45 Peter Zaspel, Machine Learning in Scientific Computing, **Lecture Hall Research II**



Further references:

- a rather readable introduction to kernel-based learning: <https://pdfs.semanticscholar.org/2eb2/ca05a79d1d81033237aad416ad4a1ce90a70.pdf>
- nicely readable book on kernel-based methods: <https://www.worldscientific.com/worldscibooks/10.1142/6437>
- an overview article about Kernel-based ML in Quantum Chemistry: <https://arxiv.org/pdf/1109.2618.pdf>
- my recent work on multi-fidelity methods: <https://pubs.acs.org/doi/10.1021/acs.jctc.8b00832>

Tu 24. 9. 2019 9:45 Agostino Merico, Analysis of Complex Ecological and Social Systems, **Lecture Hall Research III** (For Presentation slides see child page on the left)

Fr 27. 9. 9:45 Peter Baumann, Analytics on Big Data Cubes in Science and Engineering **Lecture Hall Research II**



Tu 1. 10. 2019 9:45 **Lecture Hall Research III** Tutorial on Writing the term paper and Preparing the Poster **Lecture Hall Research III**



TutorialHowtoPre...andTermpaper.pdf

Fr 4.10. 9:45 **Lecture Hall Research II** no lecture

Tu 8. 10. 2019 9:45 **Lecture Hall Research III** Adalbert F. X. Wilhelm Feature engineering for sensor data



TDE\_awilhelm20191008.pdf

Fr 11.10. 9:45 **Lecture Hall Research II** no lecture

Tu 15. 10. 2019 9:45 **Lecture Hall Research III**: Vikram Unnithan, Angelo Pio Rossi, Joachim Vogt, Earth and Space Sciences: Big Geo-data - link to slides [HERE](#)

Fr 18.10. 9:45 **Lecture Hall Research II** Stefan Kettemann, Data Engineering for the Energy Transition



CurrentTopicsData...ransition.key.pdf

Tu 22.10. 9:45 **Lecture Hall Research III** **no lecture**

Fr 25.10. 9:45 HR Forecast, **Data Engineering in NLP** **Lecture Hall Research II**



Data Engineering in NLP.pdf

**Slides of HR Forecast on NLP from 2019**



HRForecastApplied...elligence.key.pdf

**Slides from HR forecast 2018:**



AbreuCT(29.10.19)@Jacobs.pdf

Tu 29.10. 9:45 Giuseppe Abreu, Communication Theory **Lecture Hall Research III**

**Tu 29.10. 14.00-15:30 Sergey Kosov, Machine Learning in Computer Vision Lecture Hall, R. 53 in Research I**



Machine Learning ...mputer Vision.pdf

**Tu 5.11. 9:45-11:00 Lecture Hall Research III Tutorial on Writing the term paper and Preparing the Poster**



PosterPresentatio...perGuideLines.pdf

**Fr 15.11. 9:45 CSC Infossession for Data Engineering Master Students, Christin Klähn**

- Why would students need Career Services?
- What CSC at Jacobs University does
- Introduction into Career Advising Seminars
- The Internship Program (how to get a voluntary internship)
- Interview training

- How to write a CV recommendations
- Career Center Website by JobTeaser
- Career Events

Tu 19.11. 9:45 Hans Pfeiffenberger, Alfred Wegener Institut für Polar- und Meeresforschung,

*Challenges and Chances of Scientific Data Management, Lecture Hall Research III*

Fr 22.11. 12:00-14:00 **Poster presentation** by Data Engineering students in the **East Wing ICC**

## The team



## About us

Schedule of Lectures and Lecture Materials

## Blog stream



[Two student jobs in my group](#)

Hütt, Marc-Thorsten posted on Feb 11, 2020

Student job 1: In a research project on disease associated genes I have the following job advertisement for a Data Engineering student (volume 10hrs/week, duration 2-3 months): Creating a website capable of sending parameter choices to run (existing) python code and then displaying the results on the website.

Note: A simple solution is the 'binder' framework, but this is \*not\* what we are looking for. Requirements: - fundamental python knowledge - fundamentals of linux knowledge (OS, bash,...



[MIT Course](#)

Kettemann, Stefan posted on Feb 10, 2020

I came across this course (<https://missing.csail.mit.edu/> <https://missing.csail.mit.edu/>) that some of the MIT PhD students put together for their CS students. Something like this would be very useful for the DE students too. At MIT this is a course without credits during the intersession !! provided by Prof. Vikram Unnithan



[Application for International Summer School, 6-31 July 2020](#)

Kettemann, Stefan posted on Jan 18, 2020

Application for International Summer School, 6-31 July 2020 Oslo Metropolitan University now accepts applications for the International Summer School scheduled to take place 6-31 July 2020. Courses will be offered through the Department of Computer Science at the Faculty of Technology, Art and Design. For more information about the programme or application process, please visit theOsloMet International Summer School website <http://www.hioa.no/Studier-og-kurs/Summer>. Applications <http://www....>

## Recently updated

[Two student jobs in my group](#)

Feb 11, 2020 • updated by Hütt, Marc-Thorsten • [view change](#)

[MIT Course](#)

Feb 10, 2020 • created by Kettemann, Stefan

[Application for International Summer School, 6-31 July 2020](#)

Jan 18, 2020 • created by Kettemann, Stefan

[MSCA fellowship in the field of Data Science and IT at the Oslo Metropolitan University in Norway,](#)

Jan 18, 2020 • created by Kettemann, Stefan

[2020 recruitment of the Helmholtz Einstein International Berlin Research School in Data Science](#)

Jan 18, 2020 • created by Kettemann, Stefan

[Term Paper and Poster 2019](#)

Dec 13, 2019 • updated by Kettemann, Stefan • [view change](#)

[Current Topics in Data Engineering](#)

Nov 18, 2019 • updated by Kettemann, Stefan • [view change](#)

[Poster Presentation Material 2019](#)

Nov 09, 2019 • updated by Kettemann, Stefan • [view change](#)

[Bell Labs Opportunities for Data Engineers](#)

Nov 06, 2019 • created by Kettemann, Stefan

[Samsung-Challenge](#)

Oct 31, 2019 • created by Kettemann, Stefan