



VSR | EDU

**CORONA
EMERGENCY
LECTURE**

Cloud & Web Anwendungen

Prof. Dr.-Ing. Martin Gaedke

Technische Universität Chemnitz

Fakultät für Informatik

Verteilte und selbstorganisierende Rechnersysteme



TECHNISCHE UNIVERSITÄT CHEMNITZ

(Social) **Web** (Engineering)(Cloud)(Apps)

“The Web is all about connecting people!”

Tim Berners-Lee

... and it is disrupting everything with high speed.



Ok, we are starting...

- This is an **introduction** to Web Engineering with focus on current industry and research trends, i.e. Agile Development, Cloud, Apps
- Prerequisites
 - ▶ No real prerequisites
 - ▶ Interested in learning about different perspectives
 - ▶ Open to findings of human nature
- Parts of this lecture
 - ▶ Re-Used from WWW2008 tutorial: Creating Solutions in the Age of Emotion, SOA, and Web 2.0
 - ▶ Re-Used from lecture Web Engineering



Lecture

- Type of event: Lecture
- Principal Lecturer: Prof. Dr.-Ing. M. Gaedke
- Tutor: Mahda Noura, M.Sc.

- Place: 171



CORONA
EMERGENCY-LECTURES
Please check OPAL

- SWS: 2 + 2

■ **All Exams will be in WRITTEN FORM**

- ▶ **Based on Faculty decision** even though your Prüfungs-/Studienordnung might still show oral exam



Further Information

**CORONA
SPECIAL ONLINE STYLE**

■ Literature

- ▶ There is NO course textbook
- ▶ However, there are different books, magazines, papers, Web-Sites that cover parts of the course
- ▶ References to Further Readings will be given each lecture

■ In addition

- ▶ Web Site for this lecture will provide the data
- ▶ You can download the slides there



Further Information

- Website of the professorship

- <http://vsr.informatik.tu-chemnitz.de/>

- Website of the lecture

- <http://vsr.informatik.tu-chemnitz.de/edu/2020/cwa/>

- Follow me on Twitter:

- <http://twitter.com/gaedke>

- Like us on Facebook:

- <http://www.facebook.com/myVSR>



New Guiding Element

NEW: This semester, we will start increasing the use of Standards and de-facto (industry-relevant) standards from Standards organisations, NGOs, companies, political bodies etc. as guiding elements and source for content – so you will be prepared in the future where to look for updates and how to deal with them!

These include, but are not limited to e.g.:

- International Standardization Organization (ISO) – <https://www.iso.org/>
- Internet Engineering Task Force (IETF) – <http://www.ietf.org>
- Institute of Electrical and Electronics Engineers (IEEE) – <https://www.ieee.org/>
- World Wide Web Consortium (W3C) – <http://www.w3.org>
- Object Management Group (OMG) – <http://www.omg.org>
- Project Management Institute (PMI) – <http://www.pmi.org>
- Scrum Alliance – <https://www.scrumalliance.org>
- European Union (EU)
 - ▶ <http://www.europa.eu>
 - ▶ <http://www.eugdpr.org>
- United Kingdom (UK) and the D5 – <https://www.gov.uk/service-manual>
- Companies and services in the context of cloud and serverless computing, like
 - ▶ Amazon - Lambda: <https://aws.amazon.com/lambda/>
 - ▶ Google - Cloud Functions: <https://cloud.google.com/functions/>
 - ▶ Microsoft - Azure Functions: <https://azure.microsoft.com/en-us/services/functions/>
 - ▶ IBM - OpenWhisk: <https://www.ibm.com/cloud-computing/bluemix/openwhisk>



Lecture Outline

