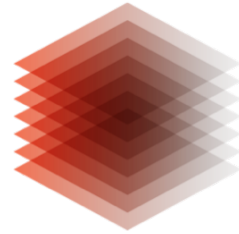


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LEIBNIZ-INFORMATIONSZENTRUM  
TECHNIK UND NATURWISSENSCHAFTEN  
UNIVERSITÄTSBIBLIOTHEK



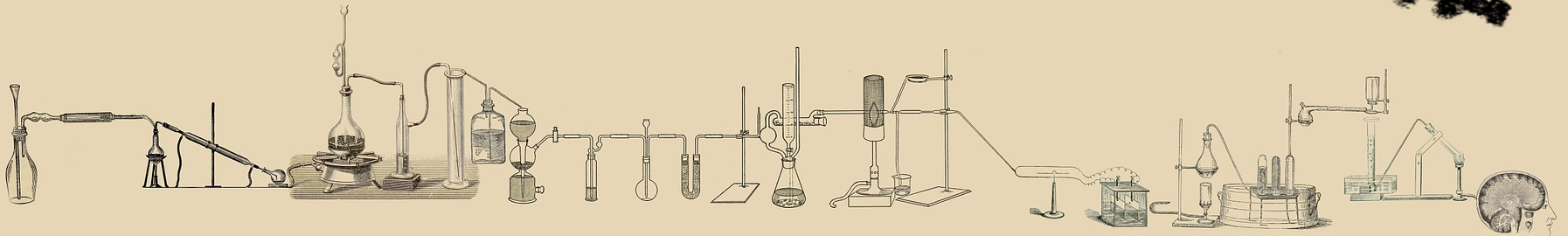
TIB

# Conference recordings complement scholarly research communication

Dr. Bastian Drees  
Leipzig, 01 March 2018  
Leibniz MMS Days

**„Science  
isn't finished until it's  
communicated.“**

Sir Mark Walport



# VIDEO ABSTRACTS



Optical and Quantum Electronics  
February 2018, 50:59 | [Cite as](#)

Reproducible and comprehensible research results through persistently linked and visualized numerical simulation data

Authors [Authors and affiliations](#)

Bastian Drees , Angelina Kraft, Thomas Koprucki

<https://doi.org/10.20347/WIAS.PREPRINT.2430>

<https://doi.org/10.1007/s11082-018-1327-1>

# VIDEO SUPPLEMENTS

**TIB AV-Portal**

**Profile**

- The TIB AV-Portal is a web-based platform for quality-tested scientific videos

**Development**

- Compliance: Leibniz Information Materials at TIB and Helmholtz Institute
- 2011-2014
- online since: 04/2014

**Benefits**

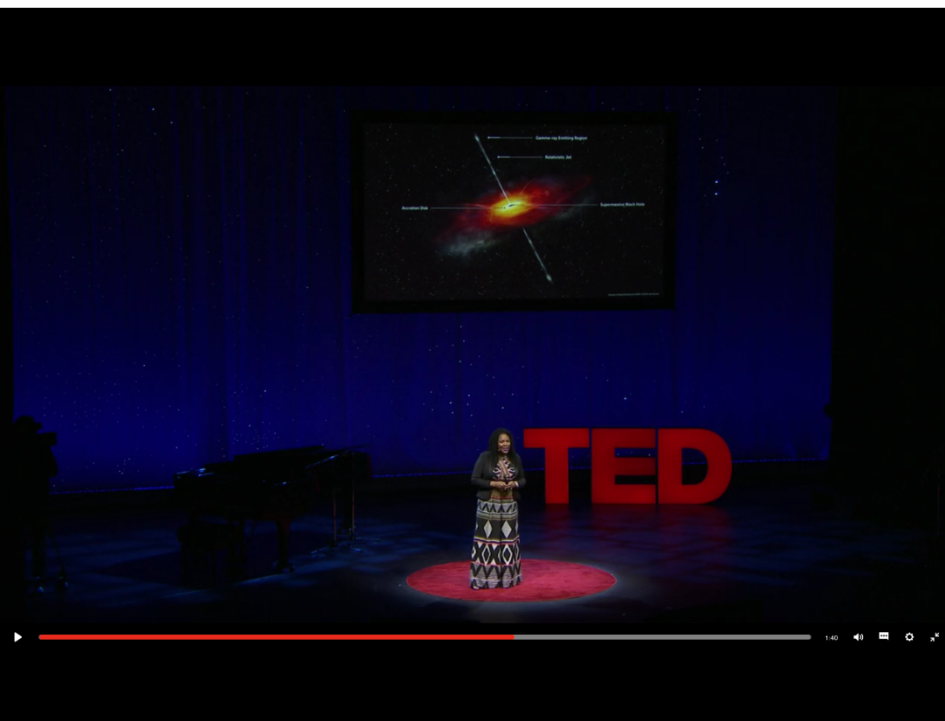
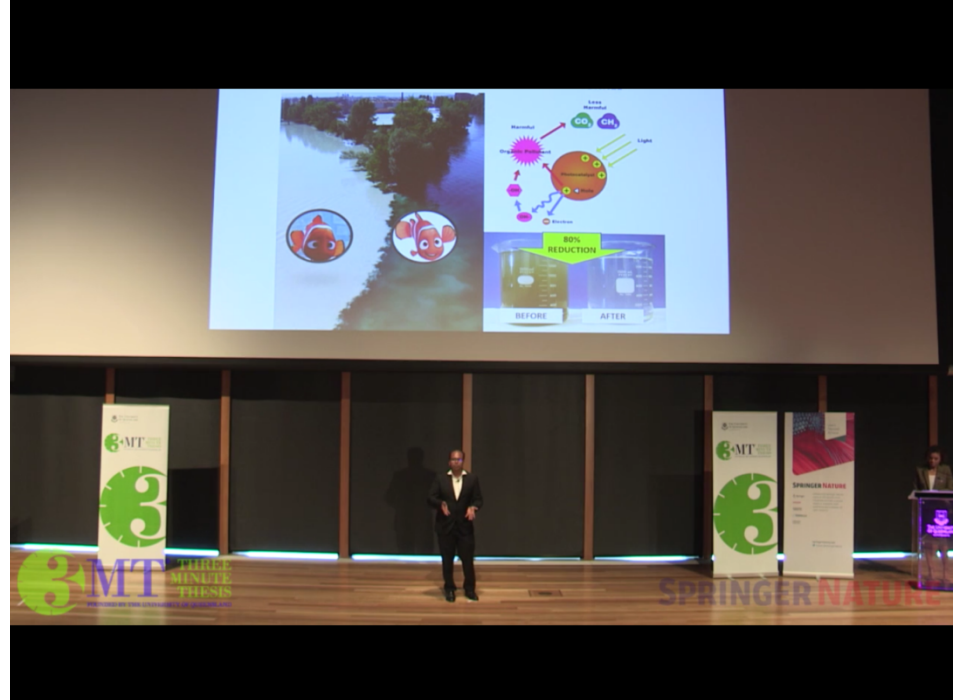
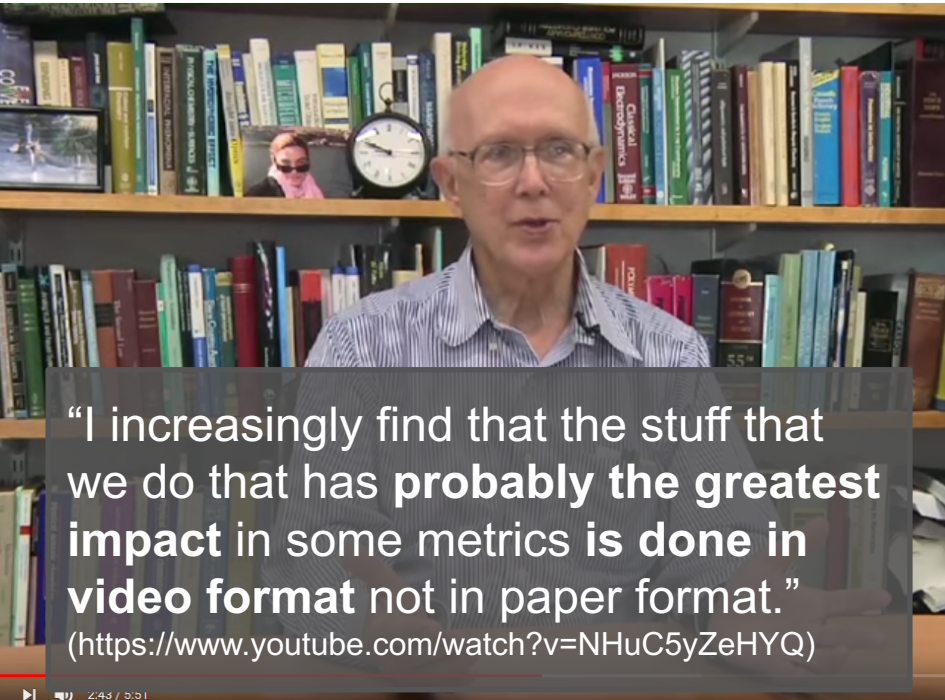
- Automatic metadata enrichment, DOI, long term preservation


**Content**

- More than 9000 videos (02/2017)
- Predominantly under open access license
- Conference recordings, lectures, experiments, video abstracts, simulations, animations

Bastian Drees  
Leibniz MMS Days 2017

<https://doi.org/10.5446/21907>





Peter Maaß

Leibniz MMS Days  
2017






Zentrum für Technomathematik
Inverse Problems
Fachbereich 03 Mathematik/Informatik

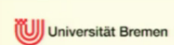
## Inverse Problems

Peter Maass

Center for Industrial Mathematics  
University of Bremen

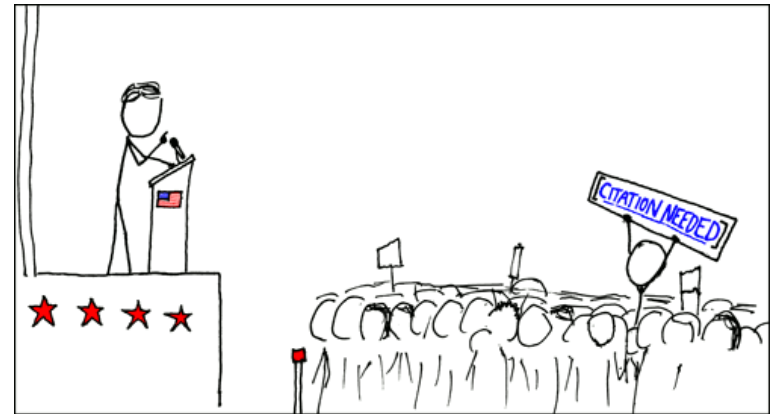
Hannover, February 23 2017


Universität Bremen
1 / 63



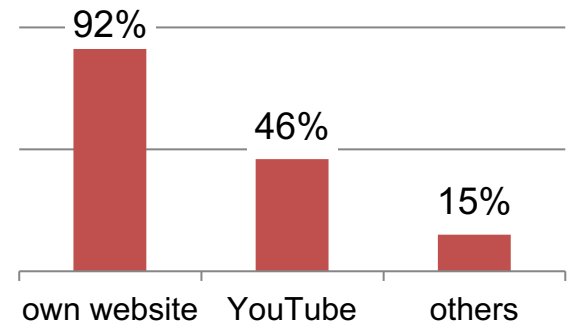
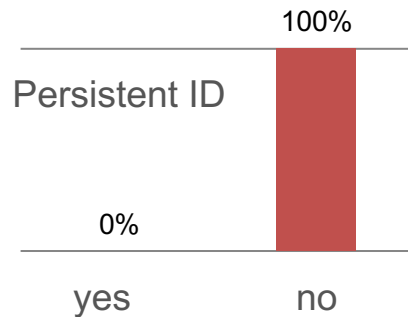
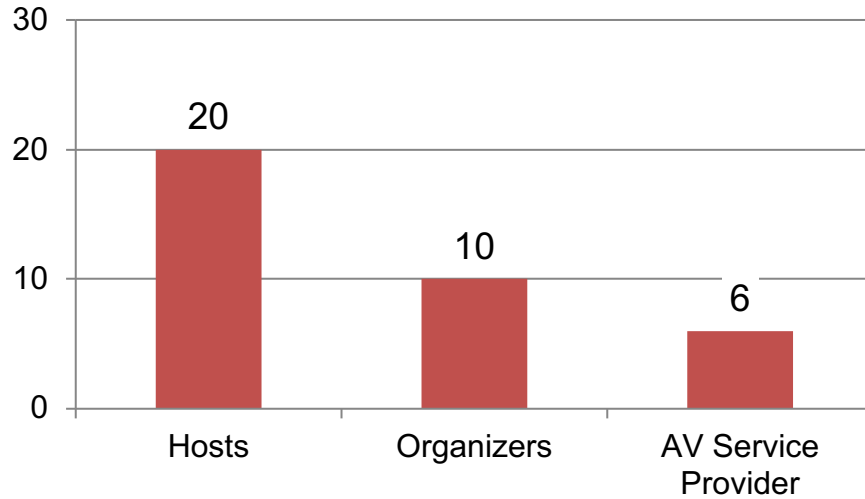
Source: Mace Ojala, Metadata,  
<https://www.flickr.com/photos/xmacex/6240221727>

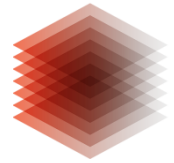


Source: Randall Munroe, „Wikipedian Protestor“, <http://xkcd.com/285/>



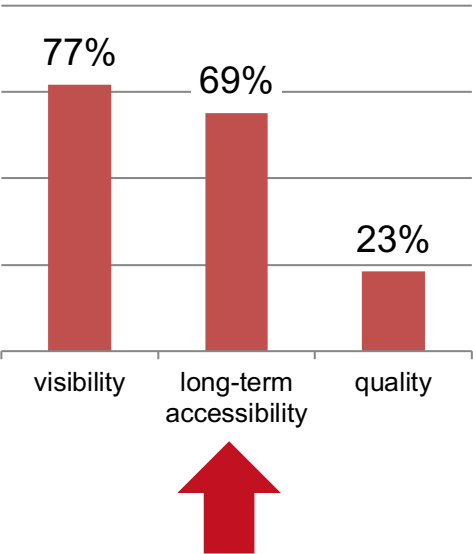
# Publishing conference recordings



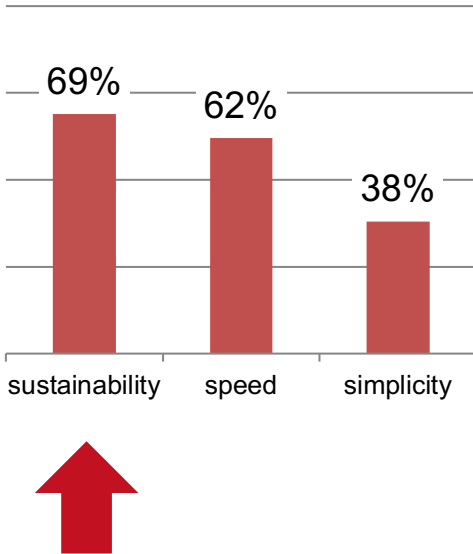


# TOP 3 most important aspects concerning...

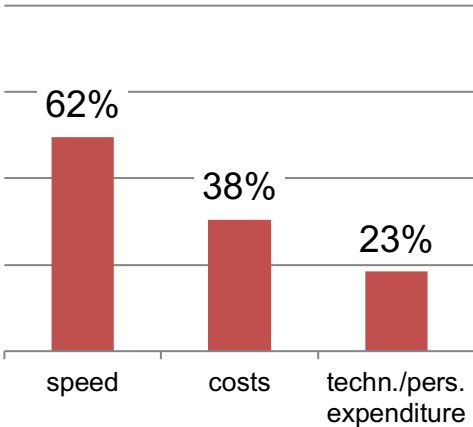
av-material



publication process



problems / improvement potential



Scene recognition



Speech recognition



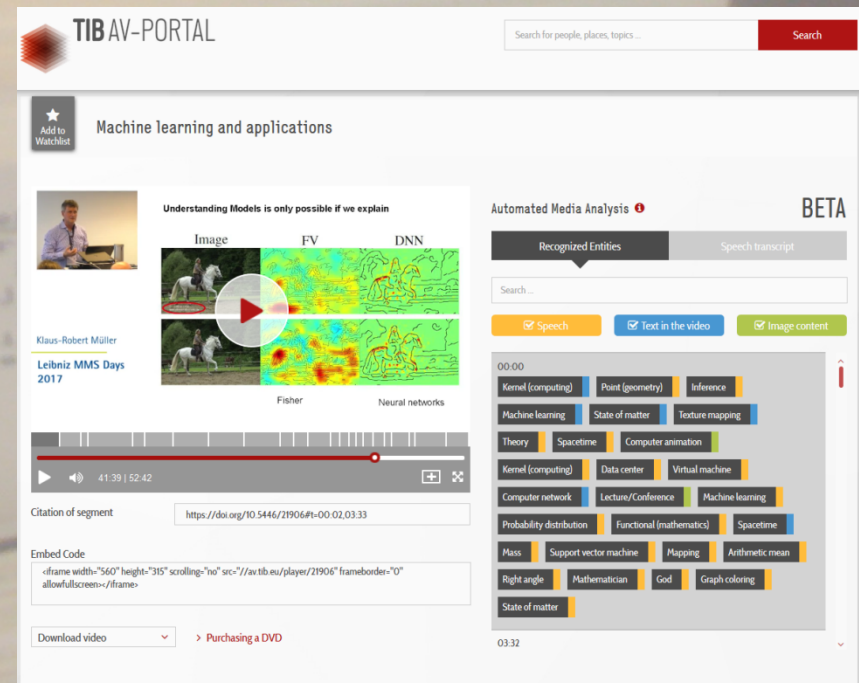
Text recognition



Image recognition



Named entity recognition



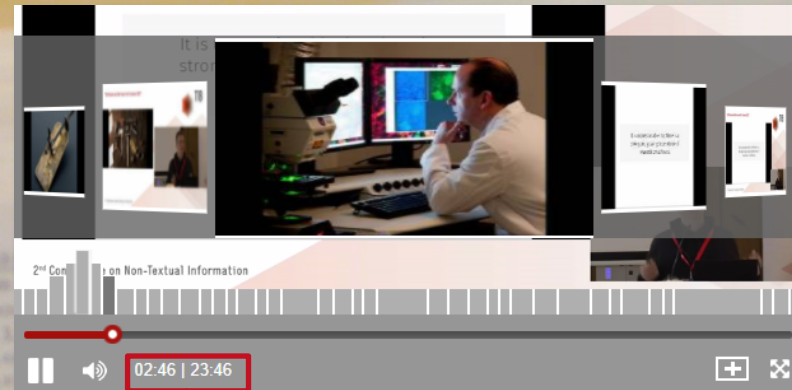
The screenshot displays the TIB AV-PORTAL interface. At the top, there is a search bar and the TIB AV-PORTAL logo. Below the search bar, a video player is shown for a video titled "Machine learning and applications" by Klaus-Robert Müller, from the Leibniz MMS Days 2017. The video player includes a play button, a progress bar, and a citation field with the URL <https://doi.org/10.5446/21906#t-00:02:03:33>. Below the video player, there is an "Embed Code" section with a code snippet and a "Download video" dropdown menu.

On the right side of the interface, there is an "Automated Media Analysis (AMA) BETA" sidebar. It features a "Recognized Entities" section with a search bar and three filter buttons: "Speech", "Text in the video", and "Image content". Below the filters, there is a grid of colored bars representing recognized entities, including terms like "Kernel (computing)", "Machine learning", "Theory", "Probability distribution", "Mass", "Right angle", and "State of matter".





## Video segments



## Speech transcript

02:46

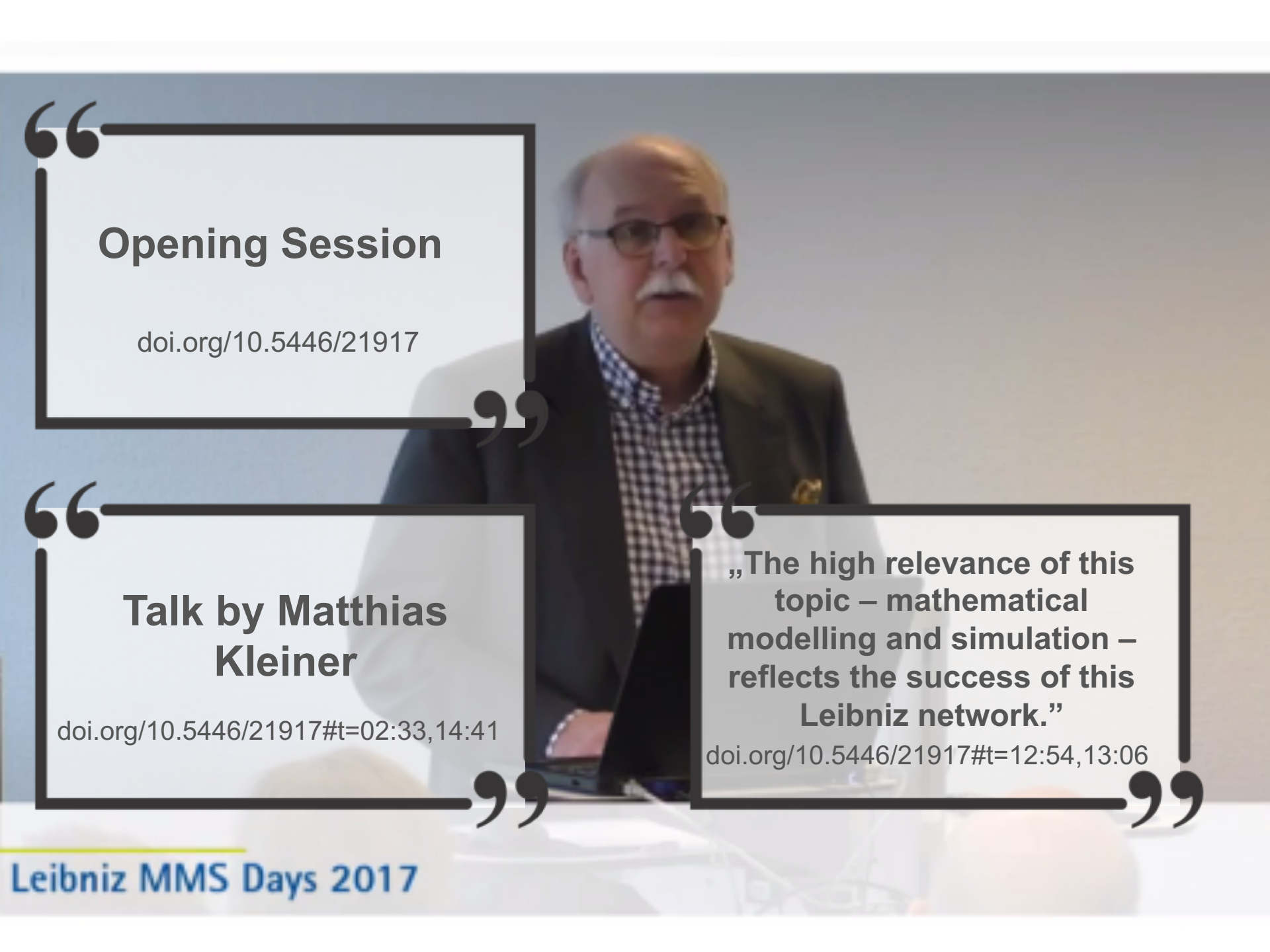
hitting science well about what people images that in software to crimes this data right  
 you need these tools there is no signs without software today and minus catching  
 maybe butterflies that at some point you would use this to a generator a database of the  
 butterflies again and researchers need maybe to classify all this so software is essential  
 for science today the it can also

## Keywords

02:44

- Resultant
- Point (geometry)
- Database
- Service (economics)
- Information
- Whiteboard
- Computer animation
- Software
- Software
- Right angle
- Sign (mathematics)
- Game controller
- Medical imaging
- Function (mathematics)



A photograph of Matthias Kleiner, a man with glasses and a mustache, wearing a dark blazer over a checkered shirt. He is standing behind a podium with a laptop, speaking into a microphone. The background is a plain, light-colored wall.

## Opening Session

[doi.org/10.5446/21917](https://doi.org/10.5446/21917)

## Talk by Matthias Kleiner

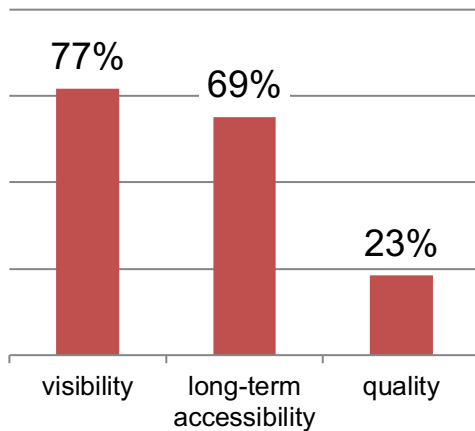
[doi.org/10.5446/21917#t=02:33,14:41](https://doi.org/10.5446/21917#t=02:33,14:41)

„The high relevance of this topic – mathematical modelling and simulation – reflects the success of this Leibniz network.”

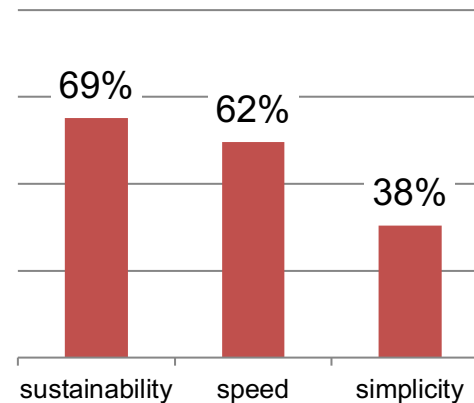
[doi.org/10.5446/21917#t=12:54,13:06](https://doi.org/10.5446/21917#t=12:54,13:06)

# TOP 3 most important aspects concerning...

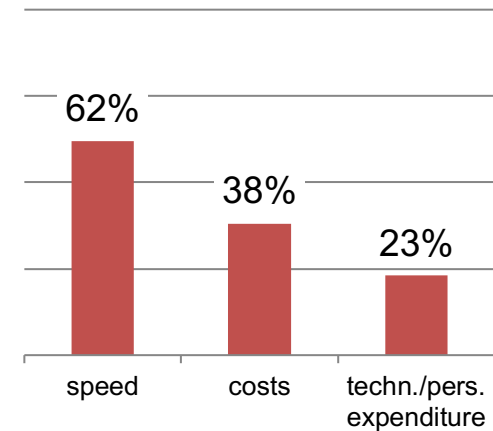
## av-material



## publication process

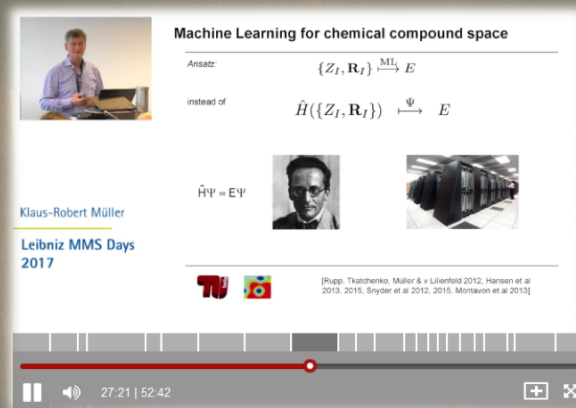


## problems / improvement potential



MMS Days 2017

> 1.000 Views



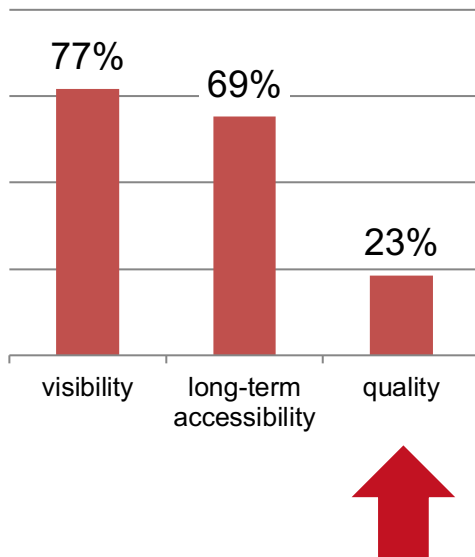
The video player displays a slide titled "Machine Learning for chemical compound space". The slide content includes:

- A small video thumbnail of Klaus-Robert Müller.
- The text "Ansatz:  $\{Z_I, \mathbf{R}_I\} \xrightarrow{ML} E$ ".
- The text "instead of  $\hat{H}(\{Z_I, \mathbf{R}_I\}) \xrightarrow{\Psi} E$ ".
- The equation  $\hat{H}\Psi = E\Psi$ .
- Logos for TU and a colorful logo.
- A small image of a server rack.
- A list of references: [Rupp, Tsitschenko, Müller & Lillerfeldt 2012, Hansen et al 2013, 2015, Snyder et al 2012, 2016, Mostafaei et al 2013].

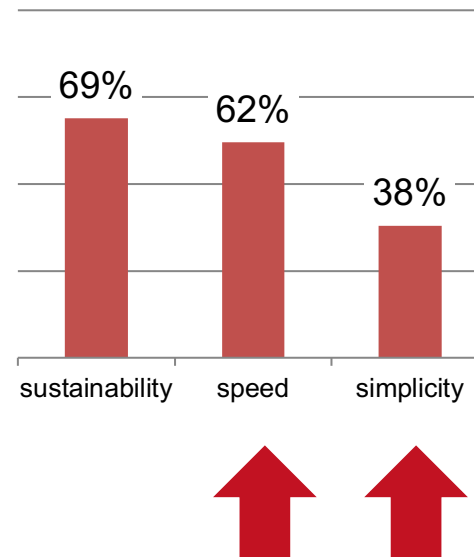
Below the slide, the video player interface shows a progress bar at 27:21 / 52:42, a volume icon, and a full-screen button.

# TOP 3 most important aspects concerning...

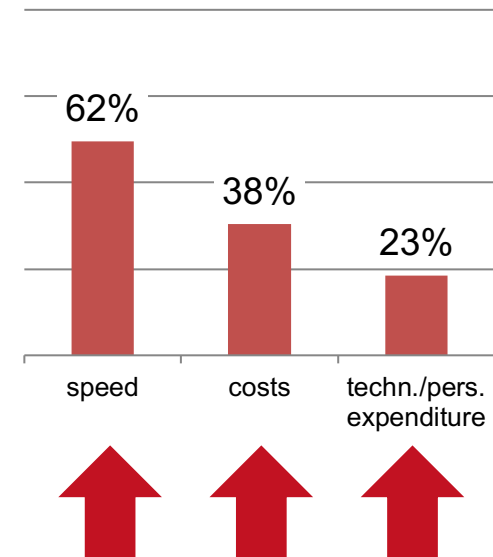
av-material



publication process



problems / improvement potential



„The video component of the conference was by far *the most complicated and difficult part of our experience*; and that is certainly part of our delay in posting the videos.“



I Agree



„1. Videoing a conference is a **significant endeavor**.

2. Not only do you need to record the videos, but they must be **post-processed/edited** and then **posted where they can be accessed**. We grossly under-estimated how much time and attention this takes.

3. Given the magnitude of the job, the **cost is relatively high**

4. Given the cost, we chose a lower cost **"do it yourself"** approach. ... it was **time consuming** and extremely stressful...“

<https://tib.eu/ConfRec>

# TIB Conference Recording Service

Angelegt von Bastian Drees, zuletzt geändert am 12. Feb 2018

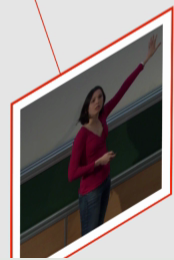
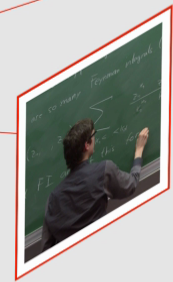
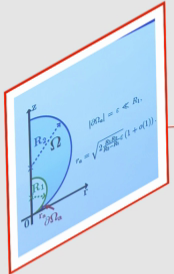
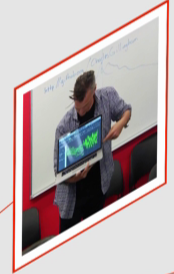
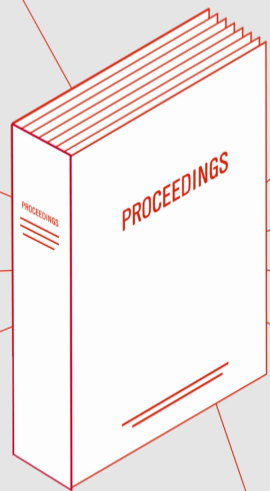
[ [Conference Recordings](#) ] [ [References](#) ] [ [Services](#) ] [ [Offer](#) ] [ [Publish your conference proceedings open access](#) ]



Use the power of conference recording, increase your visibility - for research and development!

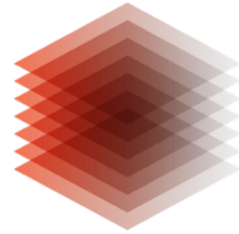






# CONFERENCE RECORDINGS

LEIBNIZ INFORMATION CENTRE  
FOR SCIENCE AND TECHNOLOGY  
UNIVERSITY LIBRARY



TIB

Thank you for your attention!

### Contact

Bastian Drees (ORCID: 0000-0003-3508-602X)

Phone: +49 511 762-14644

Email: [bastian.drees@tib.eu](mailto:bastian.drees@tib.eu)



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