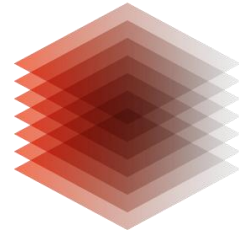

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TIB

Das TIB AV-Portal

Dr. Bastian Drees

Hannover, 29. März 2017

7. Workshop der DINI/nestor-AG Forschungsdaten

Agenda

1. Das TIB AV-Portal

2. Audiovisuelle Daten

- i. Status Quo
- ii. Best Practice

TIB AV-Portal



Profile

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

Development

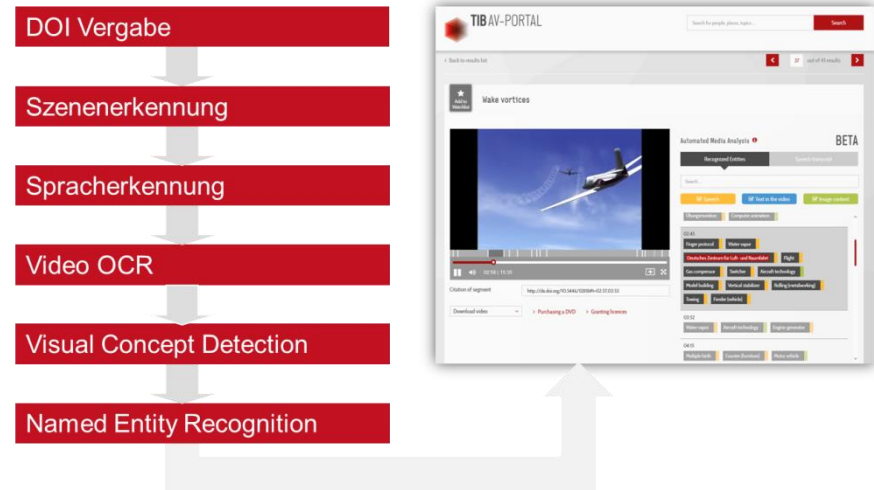
- Competence Centre for Non-Textual Materials at TIB and Hasso Plattner Institute
- 2011-2014
- online since: 04/2014

Benefits

- Automatic metadata enrichment, DOI, long term preservation

Content

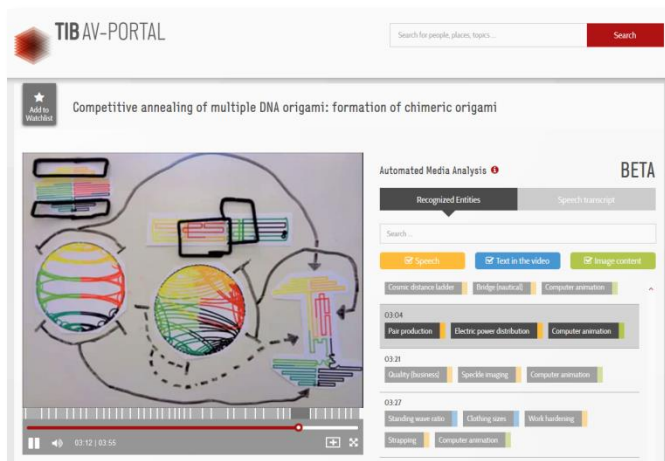
- More than 9000 videos (02/2017)
- Predominantly under open access licence
- Conference recordings, lectures, experiments, video abstracts, simulations, animations



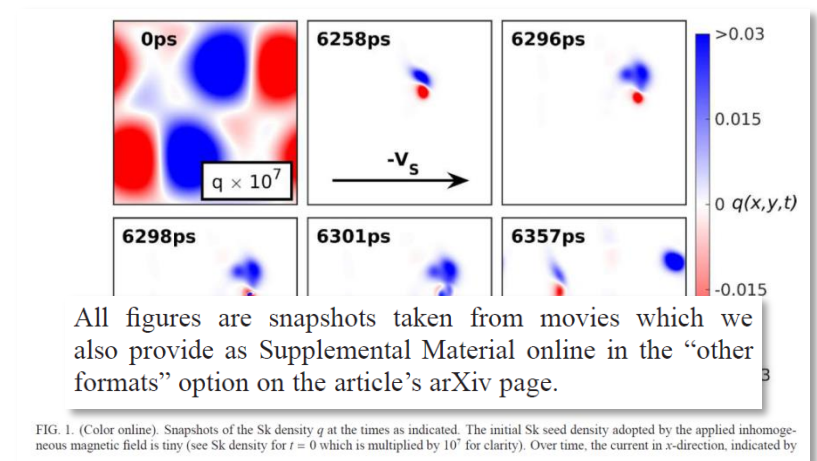
Agenda

1. Das TIB AV-Portal
2. **Audiovisuelle Daten**
 - i. **Status Quo**
 - ii. **Best Practice**

Video-Supplement und Video-Abstract



Majikes, et al., *Competitive annealing of multiple DNA origami: formation of chimeric origami*, 2016, DOI:10.5446/21892



All figures are snapshots taken from movies which we also provide as Supplemental Material online in the “other formats” option on the article’s arXiv page.

FIG. 1. (Color online) Snapshots of the Sk density q at the times as indicated. The initial Sk seed density adopted by the applied inhomogeneous magnetic field is tiny (see Sk density for $t = 0$ which is multiplied by 10^7 for clarity). Over time, the current in x -direction, indicated by

Stier, et al., *Skyrmion-Antiskyrmion pair creation by in-plane currents*, 2017, arXiv:1701.07256

Supplemental Videos

Some examples from arXiv

6. [arXiv:1702.01519](#) [pdf, ps, other]

Diffusion-driven self-assembly of rod-like particles: Monte Carlo simulation on a square lattice

Nikolai I. Lebovka, Yuri Yu. Tarasewich, Volodymyr A. Gigiberiya, Nikolai V. Vygornitskii

Comments: 12 pages, 14 figs, 3 videos, 53 refs. Submitted to Phys. Rev. E

Subjects: **Statistical Mechanics (cond-mat.stat-mech)**

7. [arXiv:1701.07861](#) [pdf, other]

Diversity and coevolutionary dynamics in high-dimensional phenotype spaces

Michael Doebeli, Iaroslav Ispolatov

Comments: 49 pages, 6 figures, and 5 videos. please open pdf with Acrobat to see the embedded movies

Journal-ref: The American Naturalist 2017 189:2, pp.115-120

Subjects: **Populations and Evolution (q-bio.PE)**

8. [arXiv:1701.07769](#) [pdf, ps, other]

Ethical Considerations in Artificial Intelligence Courses

Emanuelle Burton, Judy Goldsmith, Sven Koenig, Benjamin Kuipers, Nicholas Mattei, Toby Walsh

Comments: 29 pages including all case studies and links to video media on YouTube

Subjects: **Artificial Intelligence (cs.AI)**; Computers and Society (cs.CY); General Literature (cs.GL)

9. [arXiv:1701.07479](#) [pdf, other]

Epidemiological modeling of the 2005 French riots: a spreading wave and the role of contagion

Laurent Bonnasse-Gahot, Henri Berestycki, Marie-Aude Denuit, Milica B. Gordon, Sebastian J. Schö, Nancy Rodriguez, Jean-Pierre Nadal

Comments: 16 pages, 6 figures, 2 SI pages, 3 SI figures, 4 SI videos (the SI videos are included in the source package, and are also available here: [this http URL](#))

Subjects: **Physics and Society (physics.soc-ph)**; Social and Information Networks (cs.SI)

10. [arXiv:1701.07372](#) [pdf, other]

A Multi-view RGB-D Approach for Human Pose Estimation in Operating Rooms

Abdolrahim Kadkhodamohammadi, Afshin Gangi, Michel de Mathelin, Nicolas Padoy

Comments: WACV 2017. Supplementary material video: [this https URL](#)

Subjects: **Computer Vision and Pattern Recognition (cs.CV)**

11. [arXiv:1701.07256](#) [pdf, ps, other]

Skyrmion-Antiskyrmion pair creation by in-plane currents

Martin Stier, Wolfgang Häusler, Thore Posske, Gregor Gurski, Michael Thorwart

Comments: Please find additional videos of the skyrmion-antiskyrmion pair creation process on the article's arXiv page. The videos can also be downloaded from the "other formats" section as a compressed file

Subjects: **Mesoscale and Nanoscale Physics (cond-mat.mes-hall)**

Where?

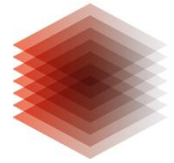
Embedded in PDF

Youtube

Source package

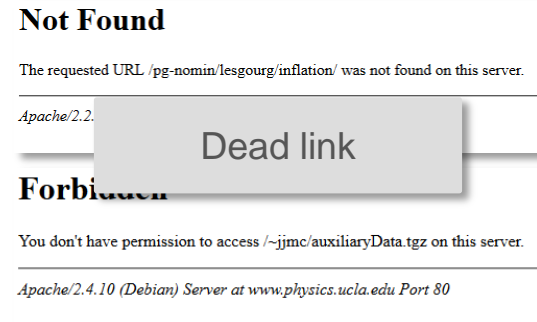
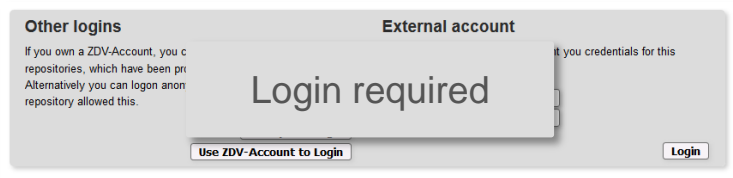
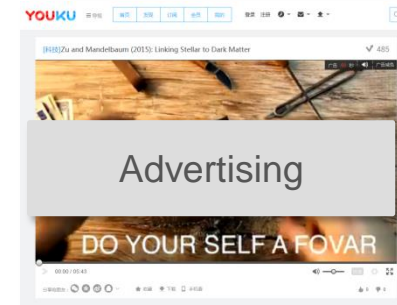
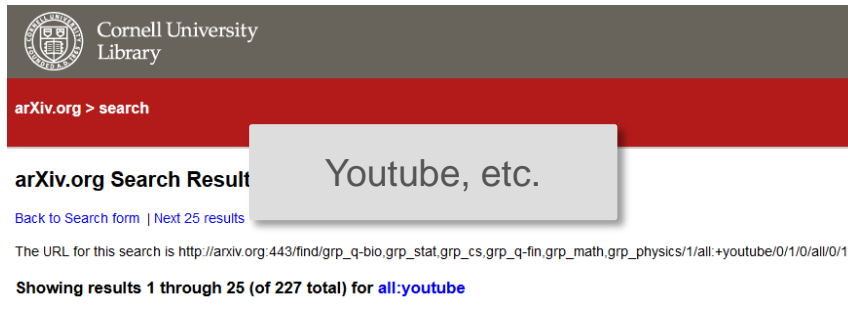
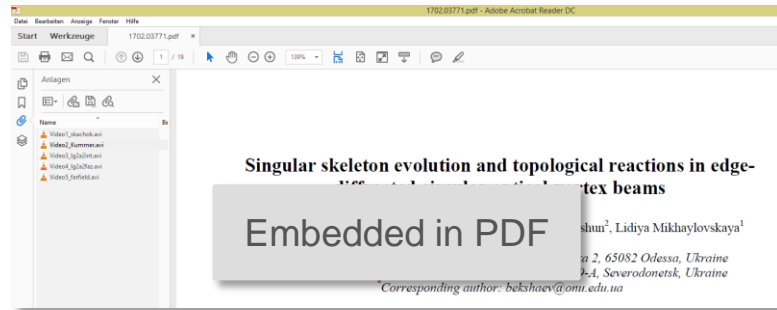
Private webpage

Other formats section



Supplemental Videos

Some examples from arXiv



Agenda

1. Das TIB AV-Portal

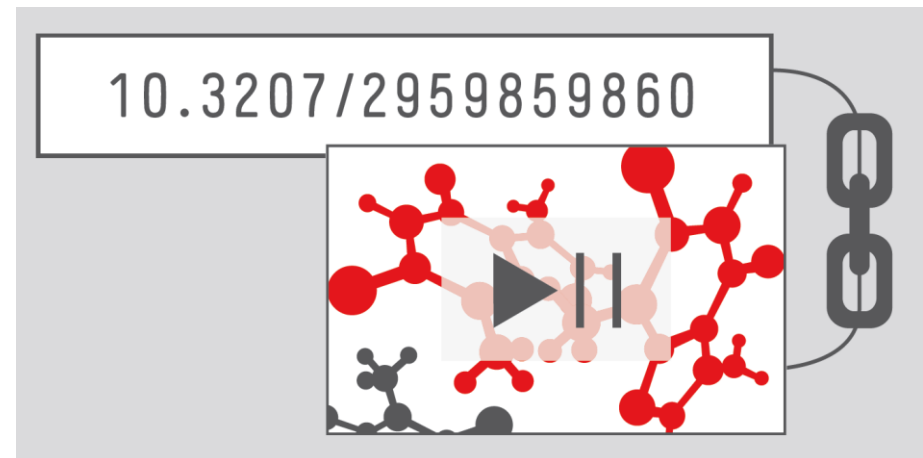
2. Audiovisuelle Daten

i. Status Quo

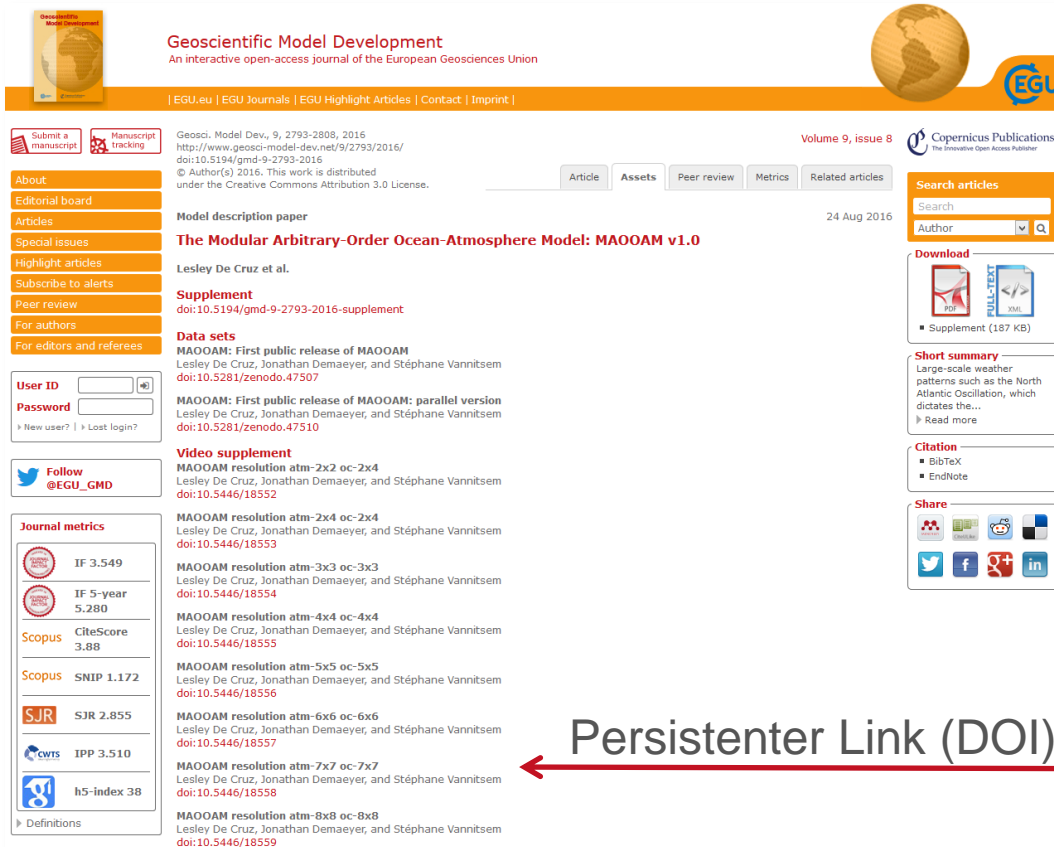
ii. Best Practice

Preservation of knowledge

- **DOI service** for referencing digital objects
- **Long-term preservation** of scientific media



Artikel und Video-Supplement & -Abstract



Geoscientific Model Development
An interactive open-access journal of the European Geosciences Union

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Volume 9, issue 8 | 24 Aug 2016 | Copernicus Publications

The Modular Arbitrary-Order Ocean-Atmosphere Model: MAOOAM v1.0
Lesley De Cruz et al.

Supplement
doi:10.5194/gmd-9-2793-2016-supplement

Data sets
MAOOAM: First public release of MAOOAM
Lesley De Cruz, Jonathan Demaeayer, and Stéphane Vannitsem
doi:10.5281/zenodo.47507

MAOOAM: First public release of MAOOAM: parallel version
Lesley De Cruz, Jonathan Demaeayer, and Stéphane Vannitsem
doi:10.5281/zenodo.47510

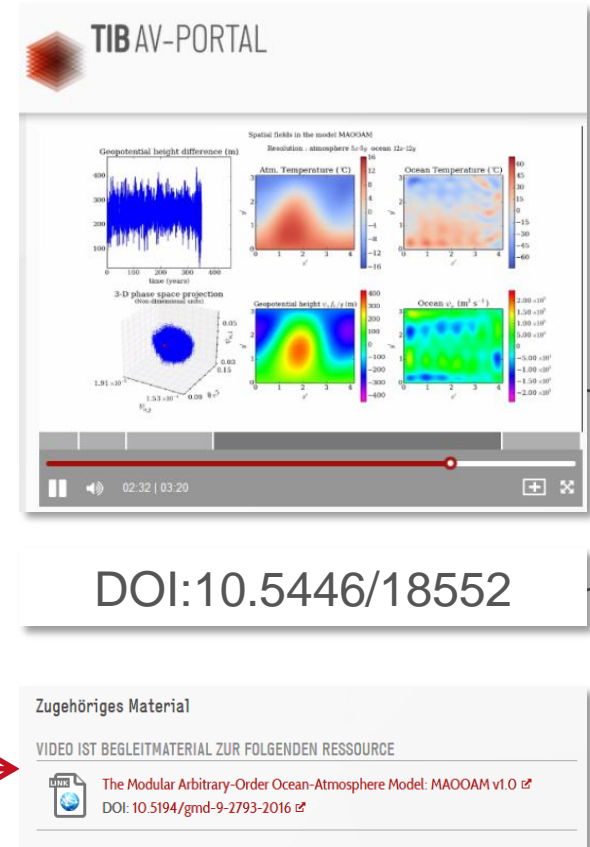
Video supplement
MAOOAM resolution atm-2x2 oc-2x4
Lesley De Cruz, Jonathan Demaeayer, and Stéphane Vannitsem
doi:10.5446/18552

Journal metrics

IF 3.549
IF 5-year 5.280
Scopus CiteScore 3.88
Scopus SNIP 1.172
SJR SJR 2.855
CWTS IPP 3.510
h5-index 38

Definitions

Persistenter Link (DOI) ← →



TIB AV-PORTAL

Spatial fields in the model MAOOAM
Resolution: atmosphere 1x1y, ocean 12x12y


Geopotential height difference (m), Atm. Temperature (°C), Ocean Temperature (°C), 3-D phase space projection, Geopotential height (g.p.m.), Ocean ρ_s (kg m^{-3})

02:32 | 03:20

DOI:10.5446/18552

Zugehöriges Material

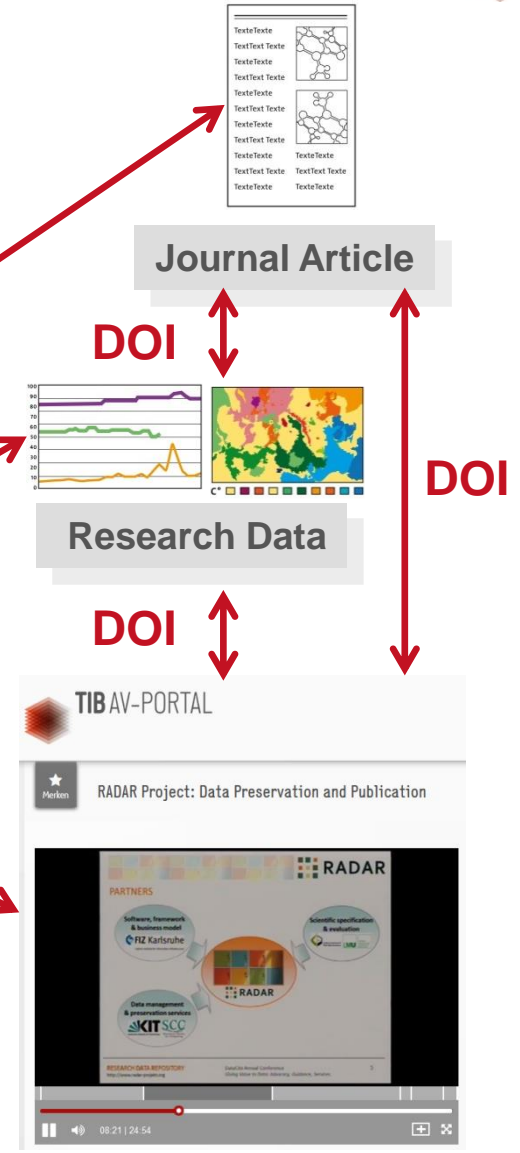
VIDEO IST BEGLEITMATERIAL ZUR FOLGENDEN RESSOURCE

 The Modular Arbitrary-Order Ocean-Atmosphere Model: MAOOAM v1.0 & DOI: 10.5194/gmd-9-2793-2016 &

De Cruz et al., *The Modular Arbitrary-Order Ocean-Atmosphere Model: MAOOAM v1.0*. Geosci. Model Dev., 9, 2793-2808, 2016. DOI:10.5194/gmd-9-2793-2016

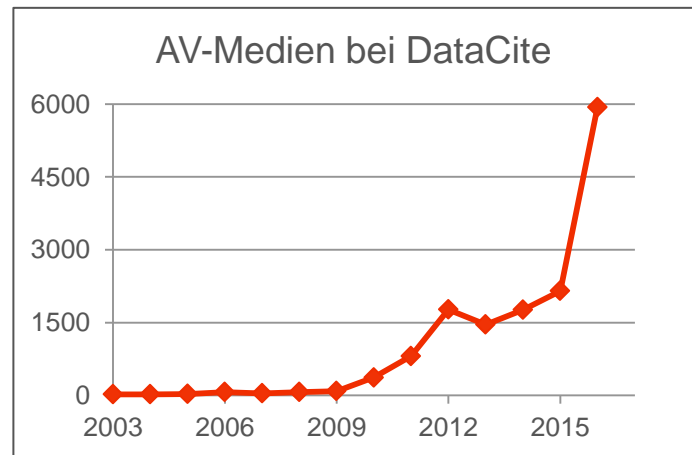
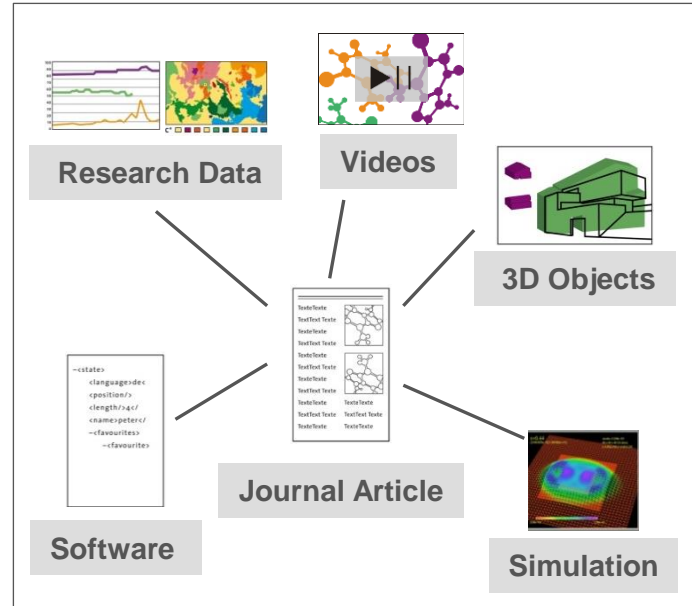
De Cruz et al., *MAOOAM resolution atm-2x2 oc-2x4*. Suppl. videos for "A Modular Arbitrary-Order Ocean-Atmosphere Model: MAOOAM". 2016. DOI:10.5446/18552

ORCID Publication list

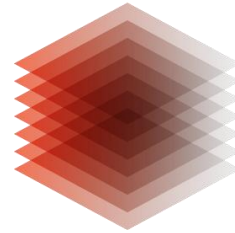


Fazit

- Audiovisuelle Daten sind ein wichtiger Teil der Gesamtpublikation
- Stabile und nachhaltige Infrastruktur nötig
- Wachsender Anteil an audiovisuellen Medien
- TIB AV-Portal: Persistente Identifier für AV-Medien



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TIB

Save the Date!

2nd Conference on Non-Textual Information

“Software and Services for Science (S3)”

May 10 -11, 2017 in Hannover

The conference is being hosted by

www.nontextualinformation2017.de

TIB ZBW ZB MED



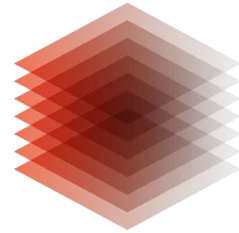
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Conference Topics

- Software sustainability
- Software sharing and collaboration
- Software referencing
- Legal issues concerning scientific software

Early-Bird-Tarif bis 13. April 2017

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