

The CombineArchive Toolkit

facilitating the transfer of research results.

MARTIN SCHARM

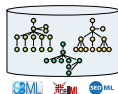
Department of Systems Biology & Bioinformatics, University of Rostock

<http://sems.uni-rostock.de>

Foundry Workshop, Heidelberg



Graph Database



store



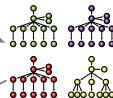
track development

Version Control

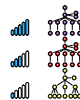
SEMS
simulation experiment management system

retrieve

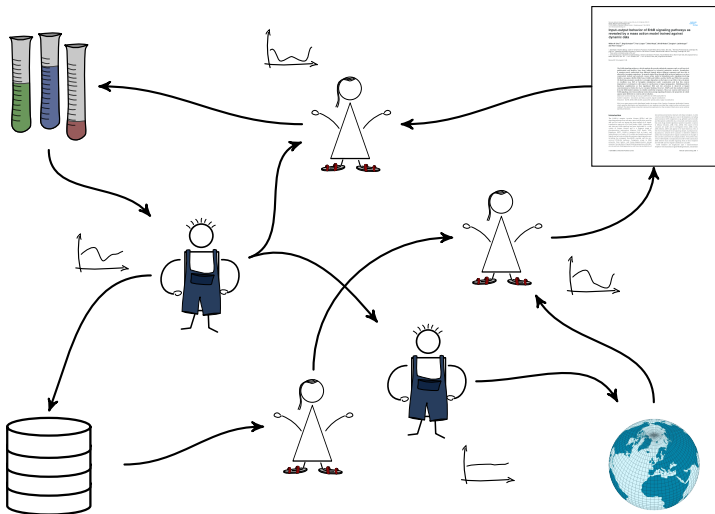
Retrieval

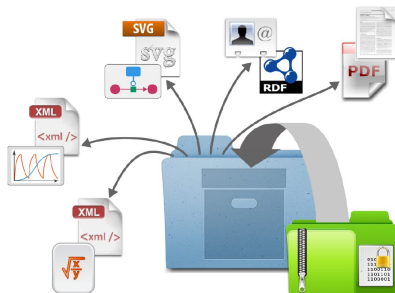


rank



Ranking





arXiv.org > cs > arXiv:1407.4992

Search or Article id




Computer Science > Digital Libraries

COMBINE archive: One File To Share Them All

Frank T. Bergmann, Richard Adams, Stuart Moodie, Jonathan Cooper, Mihai Glont, Martin Golebiewski, Michael Hucka, Camille Laibe, Andrew K. Miller, David P. Nickerson, Brett G. Olivier, Nicolas Rodríguez, Herbert M. Sauro, Martin Scharm, Stian Solland-Reyes, Dagmar Waltemath, Florent Yvon, Nicolas Le Novère

(Submitted on 18 Jul 2014)



- ZIP container (**O**pen **M**odelling **E**Xchange Format)
- Contents:
 - manifest.xml – information about files and their formats
 - Meta data files – clerical information
 - The files – necessary to reproduce a modelling result
- Already supported by   

- Java library:
 - Extract single files / whole archive
 - Browse through the archive
 - Add and remove files
 - Rename and organise files
 - Attach and retrieve meta data
- Desktop Application
- Web Interface



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Florian Wendland



Martin Peters

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Website: sems.uni-rostock.de/cat

Publication: peerj.com/preprints/514

The CombineArchive Toolkit - facilitating the transfer of research results

Martin Scharm , Florian Wendland, Martin Peters, Markus Wolfien, Tom Theile, Dagmar Waltemath

What does my tool do? The CombineArchive Toolkit facilitates the transfer of research results.

What are the neighbors of the tool? Our library can be integrated in websites, databases, and other software projects to add support for COMBINE Archives. The user interfaces provide intuitive access to COMBINE Archives for end users.

Who are the users of the tool? Every scientist can use the CombineArchive Toolkit to share reproducible research results. Software developers may integrate our library into their tools.

What is the current sustainability concept? The format as well as our tools are open and free to use for everyone interested in reproducibility.

How does this fit in with ELIXIR/ISBE/National efforts? The combine archive format was co-developed by active members of ELIXIR, ISBE, and the BMBF. Thus, this format is supposed to become the standard format in these societies.

Thank you for your attention!

SEMS group

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Olaf Wolkenhauer



@SemsProject

<http://sems.uni-rostock.de>