



Beyond machine-actionable DMPs - let's go forward together!

Joint session of DMP Common Standards WG and Active Data Management Plans IG

19th RDA Plenary





- > Part 1 Getting to know each other and meeting objectives
- Part 2 Introduction on machine-actionable DMPs for newcomers
- > Part 3 Reports on the adoption of the maDMP recommendation and discussion
 - > DAMAP a new tool for machine-actionable DMPs by Zeno Casellato
 - > GC-DSW Proof-of-Concept (POC): maDMPs in a government context by Claire Austin
 - > Automating the writing and publishing of FAIR DMPs with ARGOS service by Elli Papadopoulou
- > Part 4 Open Discussion
 - > What are the new topics we should tackle together to ease adoption of maDMPs?
 - > Are there any updates needed in the recommendation?
- Part 5 Maintenance of the recommendation
- Part 6 Elections of new chairs
- > Part 7 Wrap up



Collaborative notes

> LINK

> Add your name to the list

> Co-edit!

>Let's get to know each other > Go to slido.com

Beyond machine-actionable DMPs - let's go forward together!

Ноте

Beyond machine-actionable DMPs - let's go forward together

Group leading the application: DMP Common Standards WG

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DMP Common Standards WG
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Active Data Management Plans IG

Meeting agenda: e session notes: https://docs.google.com/document/d/1e27x00_t7stjE7jQhp-tpjXikTZiDB9rF79-.. Part 1 - Introduction for newcomers, status update, and meeting objectives Part 2 - Reports on the adoption of the maDMP recommendation and discussion Part 3 - Wrap up and next steps

. What are the new topics we should tackle together to ease adoption of maDMPs?

Meeting objectives:

The main aim of this session is to inform everyone on the recent developments regarding machine-actionable DMPs and to identify new areas that require coordinated action. Specifically we want to:

- · Present recent updates to the DMP Common standard
- Demonstrate adoptions for the DMP Common standard
- Encourage adoption of the DMP Common standard · Discuss joint actions, such as, Community of Practice, "maDMP Commons", etc.

Short Group Status:

DMP Common Standards WG is in maintenance mode. Active DMPs IG is active.

Brief introduction describing the activities and scope of the group(s):

Active DMP IG is a forum for discussing requirements for active (i.e. able to evolve and be monitored) data management planning, and identifying developments needed to support this evolution more effectively for all stakeholders in data management planning, including funders, institutions, service providers and research projects DMP Common Standard WG developed a standard for machine-actionable plans (maDMP) to better enable exchange of information between the platforms and people involved in implementing a DMP.

Type of Meeting: Informative meeting

Group chair serving as contact person (responsible for the agreement with the corresponding groups): Tomasz Miksa

Additional links to informative material:

Full specification of maDMPS: https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard Slides and other material from past plenaries and meetings: https://www.rd-alliance.org/node/56938/file-repository

#maDMPs *#activeDMPs*



Where are you located?

(i) Start presenting to display the poll results on this slide.





(i) Start presenting to display the poll results on this slide.





(i) Start presenting to display the poll results on this slide.



> DMP Common Standards Working Group

- Maintenance mode
 - > Updates the recommendation when necessary
 - Can add new serializations
 - > JSON, RDF, ...
 - Supports adopters of the recommendation

> Active DMPs Interest Group

- > Place for discussion <u>on all topics</u> related to DMPs
- Can trigger new WGs
 - > Like it happened in the past with the DMP Common Standards WG

Objective for today

> Identify new hot topics relevant for this community



400+ members!





Introduction on maDMPs for newcomers Part 2





Data Management Plans (DMPs)

	Data Officer	Who is responsible for the data management and the DMP of the project (name/email address)?			
I Data Characteristics					
1.1	Description of the data	What kinds of data/source code will be generated or reused (type, format, volume)? How will the research data be generated and which methods will be used? How will you structure the data and handle versioning? Who is the target audience?			
Ш	Documentation and Metadata				
II.1	Metadata standards	What metadata standards (if any) will be in use and why? (see Digital Curation Centre)			
II.2	Documentation of data	What information is needed for the data to be findable, accessible, interoperable and re-usable (<u>FAIR</u>) in the future? Is the data machine-readable? How are you planning to document this information?			
II.3	Data quality control	What quality assurance processes will you adopt? How will the consistency and quality of data collection be controlled and documented? (This may include processes such as repeat samples or measurements, standardised data capture, peer review of data or representation with controlled vocabularies.)			
ш	Data Availability and Storage				
III.1	Data sharing strategy	How and when will the data be shared and made accessible? What repository will you be using? What persistent identifier will be used?			
III.2	Data storage strategy	What data are to be preserved for the long-term, and what data will not be stored? How and where will the data be stored and backed up during the research? How and where will the data be stored after the project ends? For how long will the data be stored? Are there any costs that need to be covered for storage? At what point during or after the project will the data be stored? Are there any technical barriers to making the research data fully or partially accessible?			



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4 For procedural elements of implementing DMPs, see	e the RDA DMP

Common Standards Working Group: https://www.rd-alliance.org/groups/

dmp-common-standards-wg



Machine-actionable DMPs (maDMPs)

>Machine-actionable DMPs

- Living documents
- > automate data management
 - > collect information from systems
 - trigger actions in systems
- facilitate validation

>This requires

- >well-defined RDM workflows
- > data management infrastructure
- <u>common standard</u> <u>to represent information</u>





Official RDA Recommendation on maDMPs

RDA DMP Common Standard for Machine-actionable Data Management Plans

The Challenge:

Data Management Plans are free-form text documents describing the data that is used and produced during the course of research activities. They specify where the data will be archived, which licenses and constraints apply, and to whom credit should be given, etc. The workload and bureaucracy often associated with traditional DMPs can be reduced when they become machine-actionable.



RDA DMP Common Standard for Machine-actionable

Data Management Plans

Recommendations of the RDA DMP Common Standards WG Tomasz Miksa, Paul Walk, Peter Neish

Purpose

This application profile is meant for exchange of machine-actionable DMPs between systems. It is independent of any internal data organisation used by these systems. The application profile does not prescribe how information must be presented to the end user and does not enforce any specific logic on how this information must be collected or used. The application profile is an information carrier and the full machine-actionability can only be achieved when systems using the application profile implement appropriate logic.

This application profile is intended to cover a wide range of use cases and does not set any business (e.g. funder specific) requirements. It represents information over the whole DMP lifecycle, that is, it can express planned actions, as well as actions already performed.

The application profile is NOT intended to be a prescriptive template or a questionnaire, but to provide a re-usable way of representing machine-actionable information on themes covered by DMPs.

Overview

Figure 1 presents concepts used within the application profile. Each concept is further broken down into specific fields (not depicted). The full application profile specification can be found <u>online</u>. Below we outline main concepts used within the application profile that are depicted in Figure 1.

DMP - Provides high level information about the DMP, e.g. its title, modification date, etc. It is the root of this application profile.

Project - Describes the project associated with the DMP, if applicable. It can be used to describe any type of project: that is, not only funded projects, but also internal projects, PhD theses, etc.

Funding - For specifying details on funded projects, e.g. NSF of EC funded projects.

Contact - Specifies the party which can provide information on the DMP.

Contributor - For listing all parties involved in the process of data management described by





maDMPs - documentation

Properties in 'dmp'

Name	Description	Data Type	Cardinality	Example V	alue
contact	Contact person for a DMP	Nested Data Structure	1		NC
contributor	To list people that play role in data management related to this DMP, e.g. resoponsible for performing actions described in this DMP.	Nested Data Structure	0n		NC
cost	To list costs related to data management. Providing multiple instances of a 'Cost' allows to break down costs into details. Providing one 'Cost' instance allows to provide one aggregated sum.	Nested Data Structure	0n		Mos
created	Date and time of the first version of a DMP. Must not be changed in subsequent DMPs.	DateTime	1	2019-03-13 13	3:13
dataset	To describe data on a non- technical level.	Nested Data Structure	1n		

https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/blob/master/docs/index.md



Machine-actionable DMP

> Example: https://doi.org/10.5281/zenodo.6467730

```
"contributor" : [ {
    "contributor_id" : {
        "identifier" : "0000-0002-5164-2690",
        "type" : "orcid"
    },
    "mbox" : "moritz.staudinger@tuwien.ac.at",
        "name" : "Moritz Staudinger",
        "role" : [ "Data Manager" ]
```

maDMPs use PIDs and controlled vocabularies.

Example shows that Moritz is the one responsible for data management.



```
"dataset" : [ {
 "description" : "For each dataset (fish and employee) the original dataset will be split into two subsets, one for training and one for testing the
 performance.",
  "distribution" : [ {
   "access url" : "https://zenodo.org/record/6467615",
   "byte size" : 2999302,
   "data access" : "open",
   "description" : "For each dataset (fish and employee) the original dataset will be split into two subsets, one for training and one for testing the
   performance.",
   "format" : [ "STRUCTURED TEXT" ],
   "host" : {
     "description" : "ZENODO builds and operates a simple and innovative service that enables researchers, scientists, EU projects and institutions to share
     and showcase multidisciplinary research results (data and publications) that are not part of the existing institutional or subject-based repositories of
     the research communities.\nZENODO enables researchers, scientists, EU projects and institutions to:\neasily share the long tail of small research results
     in a wide variety of formats including text, spreadsheets, audio, video, and images across all fields of science.\ndisplay their research results and get
     credited by making the research results citable and integrate them into existing reporting lines to funding agencies like the European
     Commission.\neasily access and reuse shared research results.",
     "pid system" : [ "doi" ],
     "storage type" : "other",
     "support versioning" : "unknown",
     "title" : "Zenodo",
     "url" : "https://zenodo.org/"
   },
   "license" : [ {
     "license ref" : "https://creativecommons.org/licenses/by/4.0/",
     "start date" : "2022-05-01 22:00:00.0"
   } 1,
   "title" : "Training and Test Subsets for Performance Comparison of kNN and GD"
```

Each dataset has a title and a human readable description.

It is also clear what the **format**, **size** and the **location** of the dataset are.

License and mode of access, including any exact embargo periods, are specified as well.



>maDMPs are the 'glue' between different systems >Automate getting information in and out





Adoptions (selected)





DMP Common Standards WG

- Slides from all our sessions are in the repository
- Today's presentations will also be there

https://www.rd-alliance.org/node/56938/file-repository

wg	MP Common Standards WG	
Posts	Image: Wiki Imag	create new content
roup Statu	s: 🕑 WGs Maintaining deliverables (maintenance group)	You are the group manager
> sta ch Gr Ser > File	Itus: Recognised & Endorsed air (s): Paul Walk, Peter Neish, Tomasz Miksa oup Email: dmp-common@rda-groups.org cretariat Liaison: enquiries[at]rd-alliance.org Repository	
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22 April 2021	by Tomasz Miksa Attachment 2021-RDA-DMP-VP17.pdf 1-Zeno-FairDataAustria-DMAP.pdf 3-Elli-Argos.pdf	Size 3.71 MB 1.05 MB 1.66 MB
22 April 2021	by Tomasz Miksa Attachment 2021-RDA-DMP-VP17.pdf 1-Zeno-FairDataAustria-DMAP.pdf 3-Elli-Argos.pdf 4-Fajar-DCSOntology.pdf	Size 3.71 MB 1.05 MB 1.66 MB 1.82 MB
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22 April 2021	by Tomasz Miksa Attachment 2021-RDA-DMP-VP17.pdf 2021-RDA-DMP-VP17.pdf 3-LEII-Argos.pdf 4-Fajar-DCSOntology.pdf VP16 Costa Rica Slides by Tomasz Miksa Slides from the plenary session at the VP16: * 2020-RDA-DMP-VP16 - main deck of slides 1- Claire Austin - maD Praetzellis - DMPHub 3 - Lucas Berent, Alexande Attachment	Size 3.71 MB 1.05 MB 1.66 MB 1.82 MB
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Read more in...

- Describes the full story of developing the recommendation
- > Example of a minimal maDMP

> Presents adoptions

- > Haplo
- > Open Research Publishing Platforms
- > DMP Tool
- > DMPonline
- > DMP OPIDoR
- Data Stewardship Wizard
- > NSD DMP
- > Argos
- Research infrastructure at TU Wien
- Easy DMP

ading: Application Profile for Machine-Actionable Data nagement Plans

Special Collection: Research Data Alliance Results

Research Papers

Application Profile for Machine-Actionable Data Management Plans

Authors: Tomasz Miksa 💐 Paul Walk, Peter Neish, Simon Oblasser, Hollydawn Murray, Tom Renner, Marie-Christine Jacquemot-Perbal, João Cardoso, Trond Kvamme, Maria Praetzellis, Marek Suchánek, Rob Hooft, Benjamin Faure, Hanne Moa, Adil Hasan, Sarah Jones

Abstract

This paper presents the application profile for machine-actionable data management plans that allows information from traditional data management plans to be expressed in a machine-actionable way. We describe the methodology and research conducted to define the application profile. We also discuss design decisions made during its development and present systems which have adopted it. The application profile was developed in an open and consensus-driven manner within the DMP Common Standards Working Group of the Research Data Alliance and is its official recommendation.

Keywords: application profile, maDMPs, common standard, machine actionable, RDA

How to Cite: Miksa, T., Walk, P., Neish, P., Oblasser, S., Murray, H., Renner, T., Jacquemot-Perbal, M.-C., Cardoso, J., Kvamme, T., Praetzellis, M., Suchánek, M., Hooft, R., Faure, B., Moa, H., Hasan, A. and Jones, S., 2021. Application Profile for Machine-Actionable Data Management Plans. *Data Science Journal*, 20(1), p.32. DOI: http://doi.org/10.5334/dsj-2021-032



http://doi.org/10.5334/dsj-2021-032



Read more in...

Automating Research Data Management Using Machine-actionable Data Management Plans

TOMASZ MIKSA, TU Wien & SBA Research, Austria SIMON OBLASSER, TU Wien, Austria ANDREAS RAUBER, TU Wien, Austria

Many research funders mandate researchers to create and maintain Data Management Plans (DMPs) for research projects that describe how research data is managed to ensure its reusability. A DMP being a static textual document is difficult to act upon and can quickly become obsolete and imparticula to maintain. A new generation of machine-actionable DMPs was therefore proposed by the Research Data Alliance to enable automated integration of information and updates. Machine-actionable DMPs open up a variety of use cases enabling interpenability of research systems and automation of data management tasks.

In this paper we describe a system for machine-actionable data management planning in an institutional context. We identify common use cases within research that can be automated to benefit from machineactionability of DMPs. We propose a reference architecture of a machine-actionable DMP support system that can be embedded into an institutional research that management infrastructure. The system semi-automates creation and maintenance of DMPs, and thus eases the burden for the stakeholders responsible for various DMP elements. We evaluate the proposed system in a case study conducted at the largest technical university in Austria and quantify to what extent the DMP templates provided by the European Commission and a national funding body can be pre-filled. The proof-of-concept implementation shows that machine-actionable DMP workflows can be semi-automated, thus workload on involved parties can be reduced and quality of information increased. The results are especially relevant to decision makers and infrastructure operators who want to design information systems in a systematic way that can utilise the full potential of machine-actionable DMPs.

 $\label{eq:CCSConcepts} CCSConcepts \bullet Applied computing \to Enterprise data management; Business process management; IT architectures; \bullet Information systems \to Digital libraries and archives; \bullet Social and professional topics \to Automation.$

Additional Key Words and Phrases: data management plan, machine-actionable, business processes, enterprise architecture, funder template, requirements engineering, automation, RDM, RDA, FAIR

ACM Reference Format:

Tomasz Miksa, Simon Oblasser, and Andreas Rauber. 2021. Automating Research Data Management Using Machine-actionable Data Management Plans. ACM Trans. Manag. Inform. Syst. 1, 1, Article 1 (January 2021), 22 pages. https://doi.org/10.1145/490396

1 INTRODUCTION

The data revolution continues to transform every sector of science, industry, and government [AS19]. The economic and societal benefits and increased effectiveness of research funding by ensuring that data generated and (pre-) processed as part of research remains available for re-use,

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Information Systems

https://doi.org/10.1145/3490396

ACM Trans. Manag. Inform. Syst., Vol. 1, No. 1, Article 1. Publication date: January 2021.

ACM Transactions on Management

https://doi.org/10.1145/3490396

Contains:

- Enterprise Architecture that uses maDMPs Examples of tasks
 - automation at institutions using

Practice Paper

Interconnecting systems using machine-actionable Data Management Plans - hackathon report

João Cardoso¹, Leyla J. Garcia², Tomasz Miksa³ ¹Universidade de Lisboa, Instituto Superior Técnico & NISSC-ID, Lisboa, Portugal ²ZB MED Information Centre for Life Sciences, Cologne, Germany ³SBA Research & TU Wien, Vienna, Austria

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This paper presents outputs of the Research Data Alliance Hackathon on Machine-actionable Data Management Plans, where participants proposed a series of topics looking forward to using and improving aspects related to this subject. The hackathon served three main purposes: broadening the community, improving the core supporting machine-actionable plans and exposing a growing endorsement on the adoption of the RDA DMP Common Standard application profile in a wide range of settings to enable exchange of DMP specific information in a machine-actionable way.

Keywords: Data management plans, machine-actionable data management plans, semantic web, community practice, open science.

1 Introduction

The Data Management Plan (DMP) was introduced to document and publish both data management practices and policies that are applied to data throughout its lifecycle. This implies describing the techniques, methods and policies on how data is to be created, collected, documented, processed, accessed, preserved, disseminated as well as the roles and responsibilities of associated actors (Michener, 2015).

The premise behind the concept of a machine-actionable DMP (maDMP) is that information contained within a DMP can be enacted both by humans and automated systems, thus addressing some of the limitations associated with traditional DMP documents. To that effect, data management workflows should integrate maDMPs and data management policies should take into account not only human agents but also machines. maDMPs should support both human and machine-processable representations so they act as an interchange format for dissemination and public access of the maDMP (Simms et al., 2017). In order to provide a machine-actionable representation of a maDMP, it becomes necessary to establish a standardised representation of the maDMP. The Research Data Alliance (RDA) (RDA, 2020) DMP Common Standards (DCS) working group (Miksa, Cardoso, and Borbinha, 2018; Miksa, Neish, et al., 2018; Miksa, Walk, and Neish, 2019) developed an application profile making it easier to express information from traditional DMP documents in a machine-actionable way. The DCS maDMP application profile allows for automatic exchange, integration, and validation of information provided in DMP documents. Thus, facilitating the exchange of information petween systems acting on behalf of stakeholders involved in the research life cycle, such as resarchers, funding bodies, repository managers, ICT providers, librarians, etc.

This paper reports on a hackathon organised by the DCS working group, which had as main motivation to promote the adoption of the maDMP concept by the research community, and, in particular, the usage of the DCS application profile for interchange of maDMPs. To that effect four main areas were identified; (1) serialisation, to encourage community development of serialisations of the DCS application profile; (2)

Contains:

Summary of results from hackathon

DATA SCIENCE JOURNAL

http://doi.org/10.5334/dsj-2021-035

maDMPs



Reports on the adoption of the maDMP recommendation Part 3





Adoptions and new use cases for maDMPs

Rules

- > 10 minutes per presentation
- > 5 minutes for questions directly after each presentation
 - > Ask questions in the zoom chat during the presentation or speak up after the presentation

Talks

- > DAMAP a new tool for machine-actionable DMPs
 - > by Zeno Casellato
- > GC-DSW Proof-of-Concept (POC): maDMPs in a government context
 - > by Claire Austin

> Any other spontaneous presenters?



Open Disucssion

Part 4





How can we go forward together?

> What are the relevant topics for you?

> What is the role of DMPs and maDMPs within the European Open Science Cloud (EOSC)?

- > What can we do to support adoption of maDMPs?
 - > To whom should we reach out?
 - > What other innovations are needed?
 - > What are the lessons learned from the existing adoptions?
 - "maDMP commons"
- > Are there any unexplored connections to other groups and topics?
 - > FAIR Digital Objects?
 - > Research graphs?

> ...

> Anything you would like to say





Maintenance of the recommendation Part 5





List of pending adoptions

> Please add yours to the list

https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/issues/44





Maintenance of the recommendation



Anything you would like to report?

>Any improvements needed?



Elections of new chairs

Part 6





Active DMPs IG

> David Giaretta, Kevin Ashley, Sarah Jones, Tomasz Miksa, John Chodacki

> Stepping down: Sarah Jones, John Chodacki

>DMP Common Standards WG

> Chairs (as-is): Paul Walk, Peter Neish, Tomasz Miksa

> Stepping down: Paul Walk



Paul Walk



John Chodacki



Sarah Jones



- > Do we have any candidates?
 - > 2 spots for the Active DMPs IG
 - > 1 spot for the DMP Common Standards WG

> Tell us few words about you and your connection to the groups

Voting





Wrap up

Part 7





- > Bring topics that we could tackle together
- >Use the recommendation on maDMPs
- >You can always
 - Contact group chairs
 - > Write directly to the mailing list
- > Further activities can be organised based on the needs
- >We hope to see you all in person in Salzburg!







Please cite the recommendation

RDA	DMP Common Standard for Machine-actionable Data	ta Management Plans
View	Edit	
02 Dec 2019	RDA DMP Common Standard for Machine-actionable Data Management Plans By Daniel Bangert	DMP Common Standards WG Status: Recognised & Endorsed Chair(5): Paul Walk, Peter Neish, Tomasz Miks; Group Email: dmp-common@rda-groups.org
	DMP Common Standards WG	Secretariat Liaison: enquiries[at]rd- alliance.org TAB Liaison: Isabelle Perseil
	Group co-chairs: Tomasz Miksa, Paul Walk, Peter Neish	
	Recommendation Title : RDA DMP Common Standard for Machine-actionable Data Management Plans	
	Authors: Tomasz Miksa, Paul Walk, Peter Neish	
	Impact: Allows representing Data Management Plans in a machine-actionable way, to enable exchange of information between systems acting on behalf of stakeholders involved in the research life cycle, such as, researchers, funders, repository managers, ICT operators, data stewards, etc. It also helps in automating typical data management tasks, thus contributes to a reduction of workload imposed on the stakeholders.	
	Recommendation package DOI: 10.15497/rda00039	
	Citation: Miksa, T., Walk, P., & Neish, P. (2019). RDA DMP Common Standard for Machine- actionable Data Management Plans. https://doi.org/10.15497/rda00039	

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	assets/css	Update style.scss		2 ye	ars ago	🛱 Readme		
	docs	Update FAQ.md		2 ye	ars ago	🐴 Unlicense I	icense	
	examples/JSON	Closes #32		12 mon	ths ago	🕻 Cite this re	pository -	
	ontologies	Add diagrams for validation sha	apes	Cite this repo	sitory			
	rda_dmp_common_stand	updated docs to remove link to	github pages	If you use this	software	in your work, please	e cite it	
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Miksa, T., Walk, P., & Neish, P. (2019). **RDA** *DMP Common Standard for Machine-actionable Data Management Plans*. https://doi.org/10.15497/rda00039



- Tomasz Miksa, Simon Oblasser, and Andreas Rauber. Automating research data management using machine-actionable data management plans. ACM Transactions on Management Information Systems, 13(2), dec 2021.
- Tomasz Miksa, Paul Walk, Peter Neish, Simon Oblasser, Hollydawn Murray, Tom Renner, Marie-Christine Jacquemot-Perbal, João Cardoso, Trond Kvamme, Maria Praetzellis, Marek Suchánek, Rob Hooft, Benjamin Faure, Hanne Moa, Adil Hasan, and Sarah Jones. Application profile for machine-actionable data management plans. CODATA Data Science Journal, 20(1):32, October 2021
- Raffael Foidl, Lea Salome Brugger, and Tomasz Miksa. Automating Evaluation of Machine-Actionable Data Management Plans with Semantic Web Technologies. In DaMaLOS 2nd Workshop on Data and Research Objects Management for Linked Open Science : Co-located at the International Semantic Web Conference ISWC 2021. PUBLISSO, November 2021.
- Tomasz Miksa, Maroua Jaoua, and Ghaith Arfaoui. Research Object Crates and Machine-actionable Data Management Plans. In DaMaLOS First Workshop on Data and Research Objects Management for Linked Open Science : Co-located at the International Semantic Web Conference ISWC 2020. PUBLISSO, November 2020.
- João Cardoso, Leyla Jael Garcia Castro, Fajar Ekaputra, Marie-Christine Jacquemot-Perbal, Tomasz Miksa, and José Borbinha. Towards semantic representation of machine-actionable Data Management Plans. In DaMaLOS - First Workshop on Data and Research Objects Management for Linked Open Science : Co-located at the International Semantic Web Conference ISWC 2020. PUBLISSO, 2020.
- Simon Oblasser, Tomasz Miksa, Asanobu Kitamoto: Finding a Repository with the Help of Machine-Actionable DMPs: Opportunities and Challenges. IDCC 2020
- > Tomasz Miksa, Stephanie Simms, Daniel Mietchen, Sarah Jones (2019) Ten principles for machine-actionable data management plans. PLOS Computational Biology 15(3): e1006750.
- > Tomasz Miksa, Peter Neish, Paul Walk, Andreas Rauber: Defining requirements for machine-actionable Data Management Plans. iPres 2018
- > Tomasz Miksa, João Cardoso, José Luis Borbinha: Framing the scope of the common data model for machine-actionable Data Management Plans. BigData 2018: 2733-2742
- > Asztrik Bakos, Tomasz Miksa, Andreas Rauber: Research Data Preservation Using Process Engines and Machine-Actionable Data Management Plans. TPDL 2018: 69-80