

18:30 Intro

18:40 Countering fake news with deep learning - a retrospective summary of five years of research

Alexander Schindler, AIT

19:30 Announcements & Job Openings

Break

20:00 From Development to Deployment: Leveraging 'fal' for Efficient AI Model Serving

Meder Kamalov

21:30 End

Welcome by the Meetup organizers:



René Donner
mva.ai



Thomas Lidy
Utopia Music



Jan Schlüter
JKU Linz



Alex Schindler
AIT & TU Wien

Institute for Data, Process and Knowledge Management



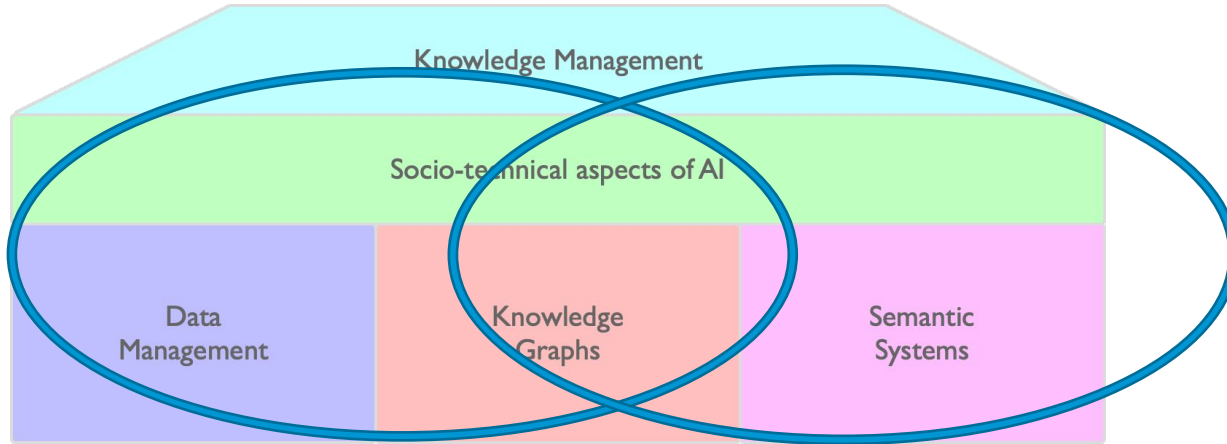
www.wu.ac.at/dpkm





DPKM – at a glance

Knowledge Management Group



AI areas of interest:



Hybrid AI Systems



Digital Humanism and AI



AI for Engineering



AI for Data Ecosystems/
Data Ecosystems for AI



Data Management Group
(Axel Polleres)



Semantic Systems Group
(Marta Sabou)

DPKM/Data Management Group:



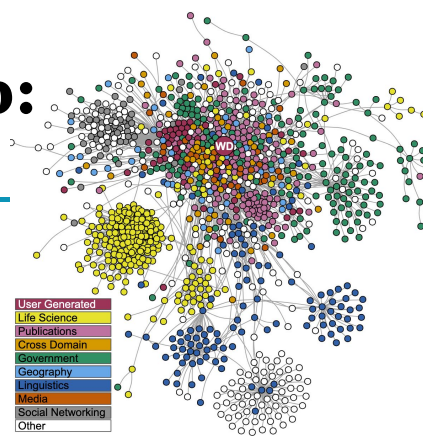
Efficient
Representations of



Query Languages and
Benchmarking

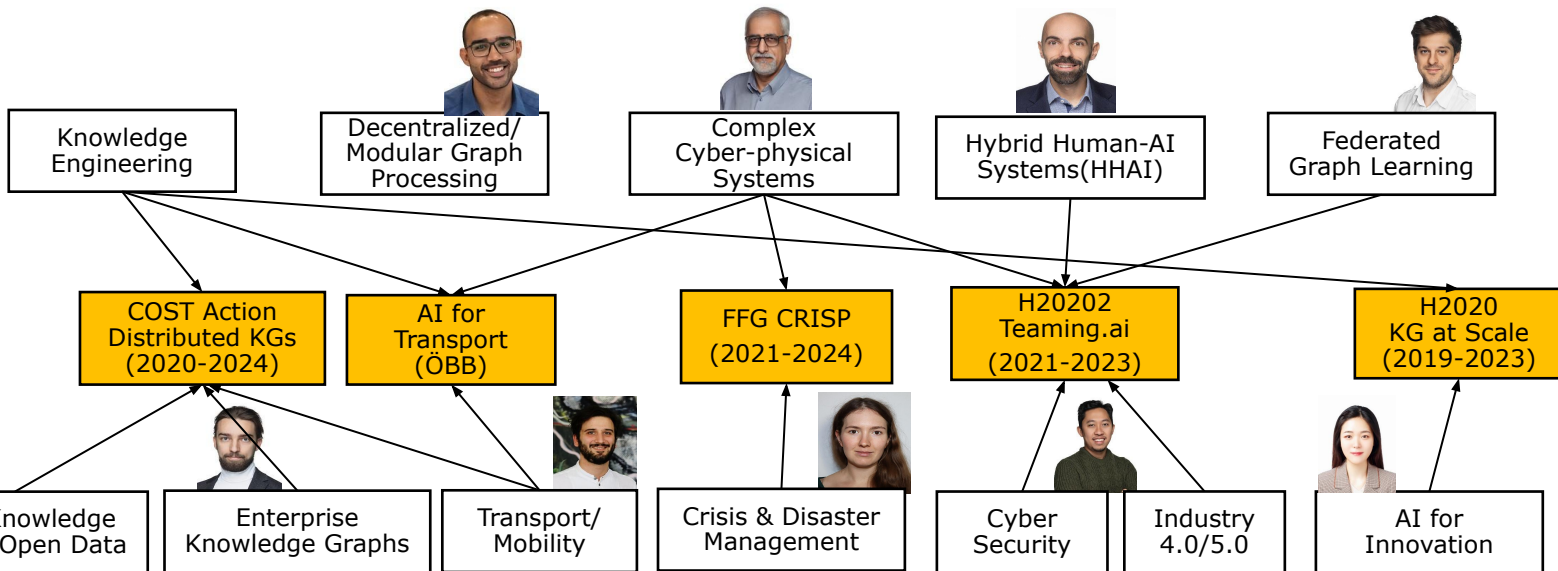


Scalable RDF
archiving systems



<https://data.wu.ac.at/>

Research
Topics



Research
Projects

Application
Domains

DPKM/Semantic Systems

Research
Communities

Machine
Learning

**SEMANTIC
SYSTEMS**

Semantic
Web

Human
Computation

<https://semantic-systems.org/>

Research
Topics

Research
Projects

Application
Domains

Auditable
SWeML Systems

Horizon Europe
PERKS
(2023-2026)

Manufacturing

SWeML-based
System
Explainability

Siemens ORE
(2022-2023)

Engineering

Knowledge
Infusion for ML
(DL) - **new!**

FFG SENSE
(2023-2025)

Smart Energy
Grid

HC for KG
Quality
ement

FWF HoNEST
(2020-2025)

Exploratory
Search Systems

H2020
OntoTrans
(2020-2024)

Material
Engineering

= Semantic Web and Machine Learning systems
(a type of neural-symbolic systems)



Atomic-Patterns

A1: s-M-s



A2: d-M-s

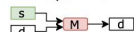


A3: s-M-d

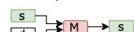


Fusion-Patterns

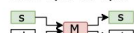
F1: d/s-M-d



F2: d/s-M-s

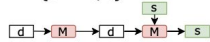


F3: d/s-M-d/s

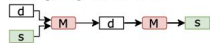


T-Patterns

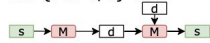
T1: {d-M-d/s}-M-s



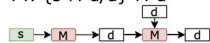
T2: {d/s}-M-d-M-s



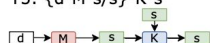
T3: {s-M-d/d}-M-s



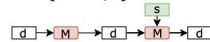
T4: {s-M-d/d}-M-d



T5: {d-M-s/s}-K-s

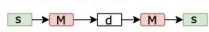


T6: {d-M-d/s}-M-d

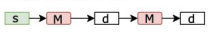


I-Patterns

I1: s-M-d-M-s

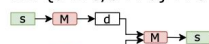


I2: s-M-d-M-d

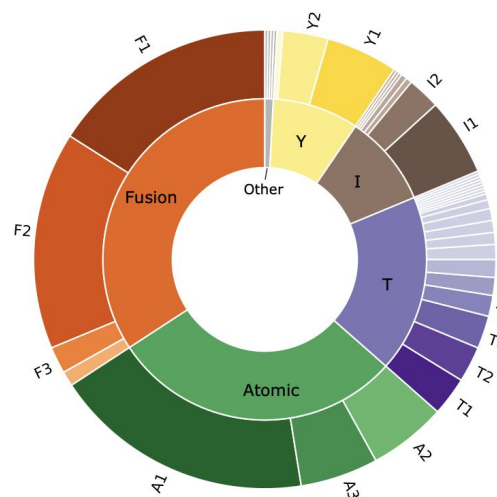
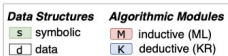
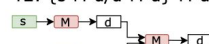


Y-Patterns

Y1: {s-M-d/d-M-d}-M-s



Y2: {s-M-d/d-M-d}-M-d



A. Breit, L. Waltersdorfer, F.J. Ekaputra, M. Sabou, A. Ekelhart, A. Iana, H. Paulheim, J. Portisch, A. Revenko, A. ten Teije, and F. van Harmelen. 2023. Combining Machine Learning and Semantic Web: A Systematic Mapping Study. ACM Computing Survey. Just Accepted (March 2023).

Job Openings

Send us announcements & job openings!
contact@vdlm.at



Utopia is all about fair pay for every play

utopia

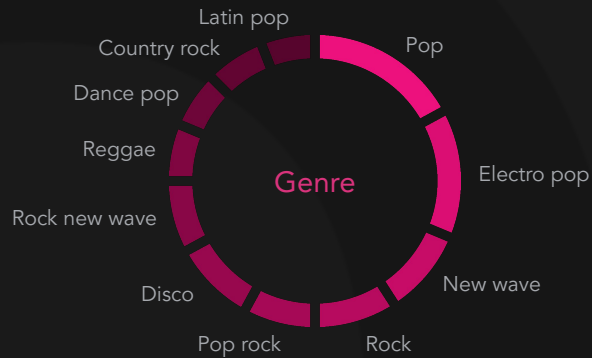
Utopia Music was founded in Switzerland in 2016 and has offices in Zug, Stockholm, **Vienna**, and others and with about 500 employees.

Our mission is to build a new music ecosystem that will help the entire music industry by creating new revenue streams, consolidating data, and drastically reducing the restrictive administrative overhead limitations created by antiquated systems. The goal is to free up available revenues for Creative Processes and Creator Development, and thereby, create a **Utopia for the Music Industry.**

We're a music intelligence company

- Music audio & lyrics tagging
- Music recommendation
- Radio monitoring
- Royalty tracking & forecasting
- Artist metrics & insights

Adding valuable data to music catalogs





Job Openings

Vienna + some other countries / remote

Data Scientist(s):

- Audio
identification/fingerprinting
- Forecasting of music metrics and
royalties
- (Music recommendation - tbc)

Apply via: data-hiring@utopiamusic.com

Data Engineer(s):

To support the DS teams on the left, with:

- Data pipelines
- AI stack / ML deployment [[MLops]]
- REST services
- Scalable databases / data lakes



Announcements

Call for Speakers!

Do you work on Deep Learning? In academia or industry?

We'd like to hear your story!

We are looking for speakers for **future meetups**.

Talk to us in the break or send us an email!

contact@vdlm.at

Talk to us! :)



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mva.ai



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- **Next meetups:**

Vienna Deep Learning Meetup



January 17 @ Dynatrace

Topics and speakers to be confirmed

...

**Looking for speakers for future meetups:
contact@vdlm.at**

**Send us announcements
& job openings!**

contact@vdlm.at