## Towards More Findable Energy Research

Software by Introducing a

Metadata-based Registry

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## Energy Research Software (ERS)

**Software** for the **scientific discovery process** to understand/ analyze/improve/design energy systems like:

- scripts/programs to visualize/analyze/generate (artificial) data from energy (sub-)components/laboratories/real world
- software representations



Which metadata elements are required for classification RQ1 and description of ERS and which existing metadata schemas are suitable for reuse?

Which existing RQ2 domain-specific ontologies can be used as a value vocabulary? RQ3 information, e.g., keywords or Artifacts II </>



- $\bullet$
- energy-specific software libraries/ packages

metadata schema

- in metadata schema creation





Environmental scan for value vocabularies





Metadata Generation Tool

for ERS

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Start from existing approaches like Software Metadata Extraction Framework (SOMEF)

[1] M. Curado Malta and A. A. Baptista, "A Method for the Development of Dublin Core Application Profiles (Me4DCAP V0.2): Detailed Description", 2013



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