Informed Machine Learning – Towards a Taxonomy of Explicit Integration of Knowledge into Machine Learning



What did the authors try to accomplish?

- "informed machine learning" → theory-guided data science
- · establish a taxonomy which can serve as a classification framework for incorporating domain knowledge

What were the key elements of the approach?

- 1. definition: informed machine learning
- 2. taxonomy and methodology
 - Which type of knowledge is integrated?
 - How is this knowledge represented or transformed (for the use on machine learning)?
 - Where is the knowledge integrated in the machine learning pipeline?

What parts can you use yourself?

- · todo: read whole paper
- · taxonomy, to classify different TGDS approaches and how to categorize them

What other references do you want to follow?

• follow literature classification table