

# Hybrid Representations as a Tool for Complexity Theory

**Matthias Schröder**

Fachbereich Mathematik  
Technische Universität Darmstadt

We investigate hybrid representations as a new approach to Complexity Theory in Computable Analysis. One motivation is to unify the approach by Kawamura and Cook and the TTE-approach to Complexity Theory. Moreover, we will discuss Co-Polish spaces. They allow the measurement of complexity in a discrete parameter on the input, whereas for general spaces an uncountable parameter is necessary.