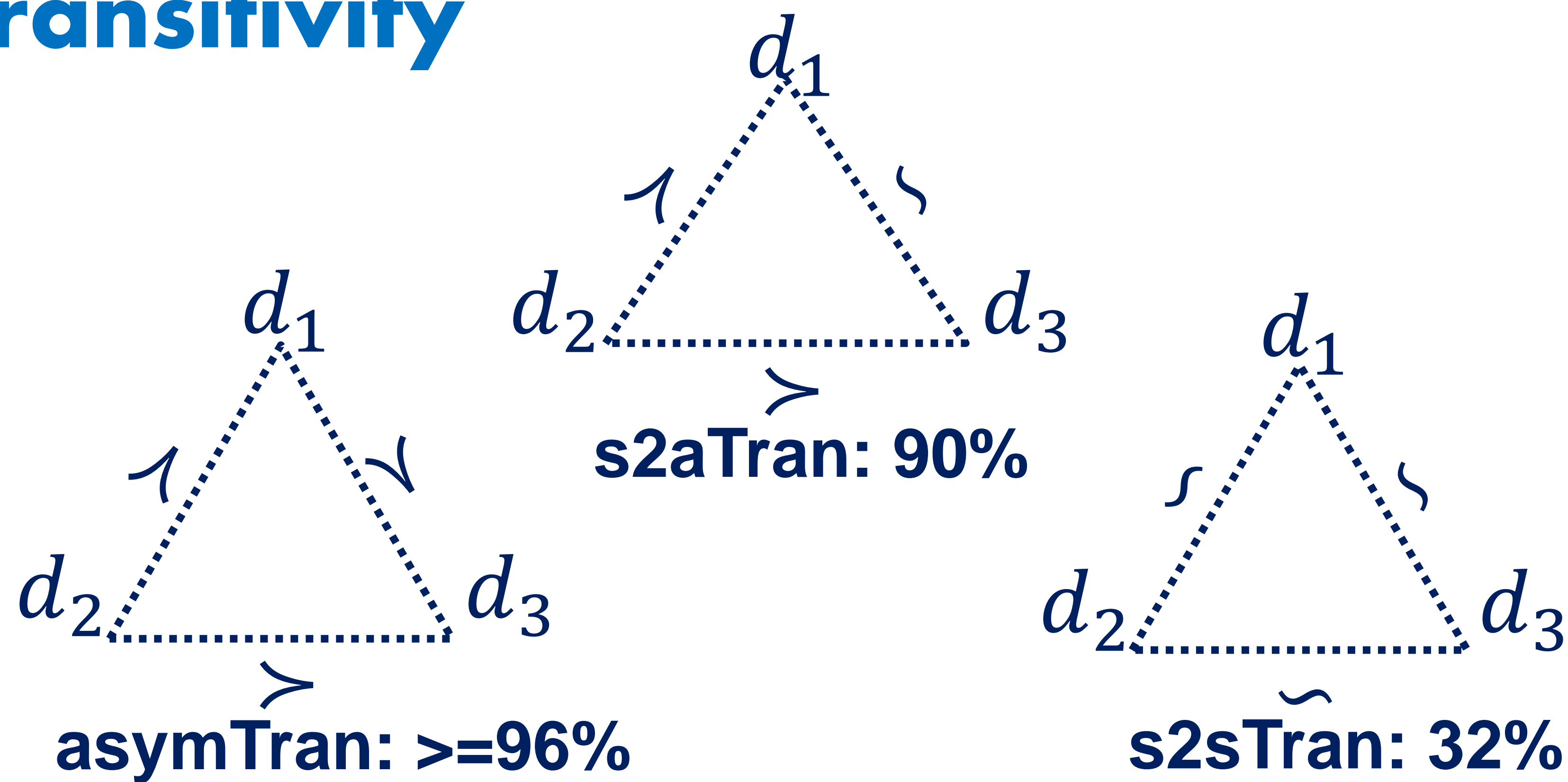


Transitivity, Time Consumption, and Quality of Preference Judgments in Crowdsourcing

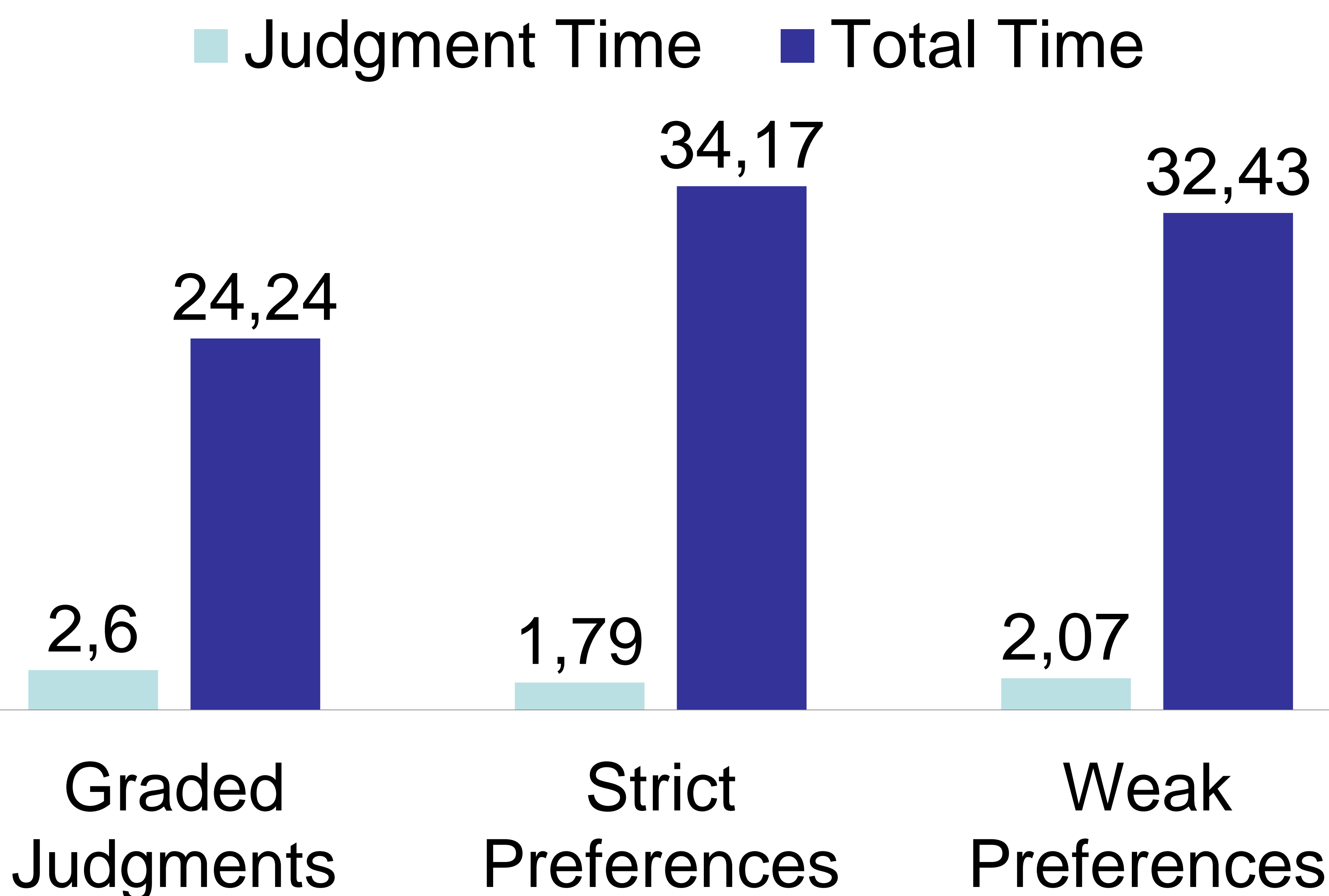
Kai Hui, Klaus Berberich
Max Planck Institute for Informatics

Transitivity



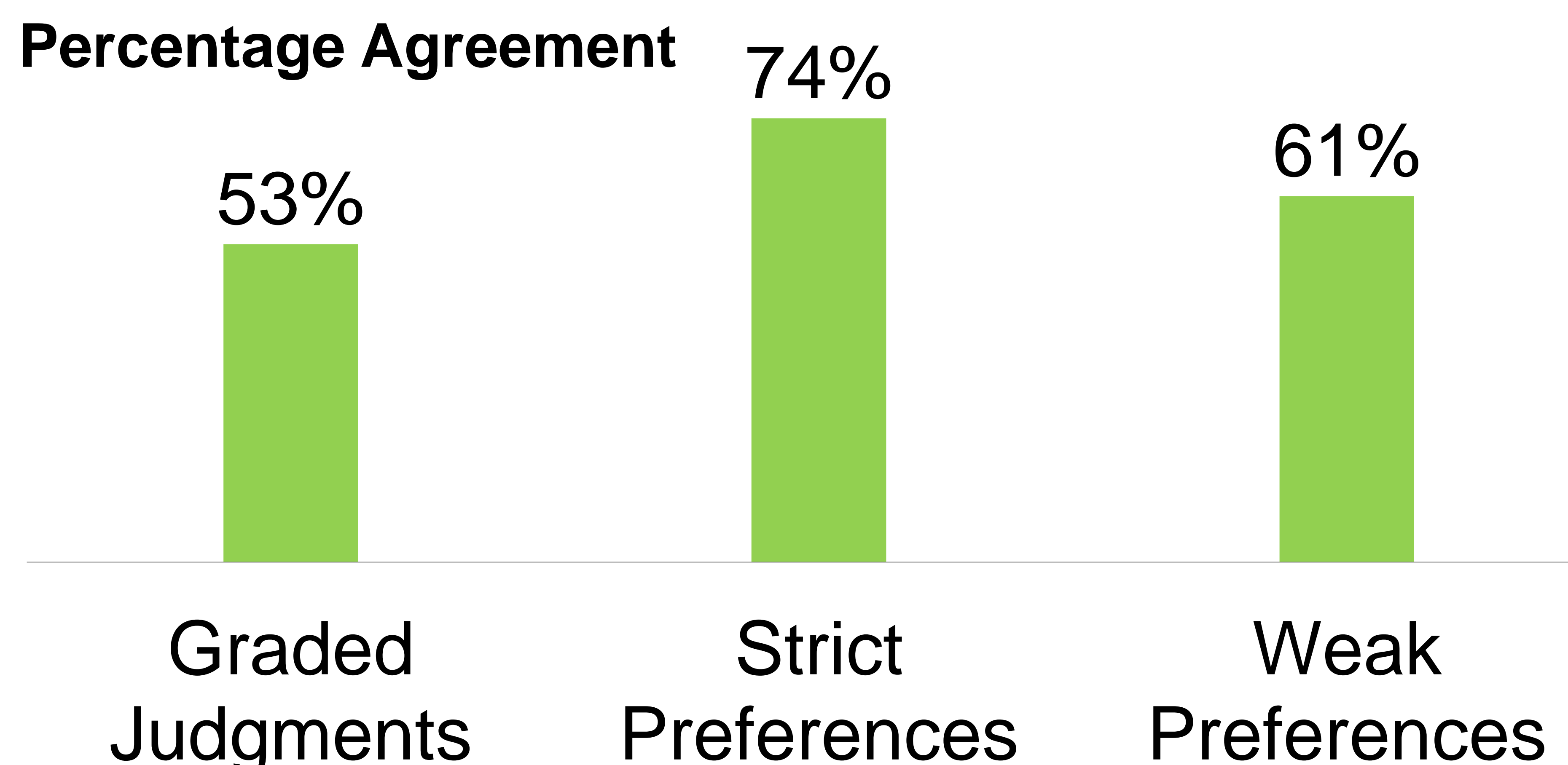
- Holds among strict preferences
- Not hold among tie judgments

Time Consumption (seconds)



Judgment Quality

- Judgment quality in terms of agreements relative to TREC judgments
- Preference judgments lead to significantly better quality
- Strict preference judgments are significantly better



Research Questions:

Q1: Do weak/strict preference judgments exhibit transitivity when collected using crowdsourcing?

Q2: How do weak/strict preference judgments compare against graded judgments in terms of time consumption?

Q3: Can weak/strict preference judgments collected using crowdsourcing replace judgments by trained judges?

We aggregate multiple judgments from a crowdsourcing platform to answer above questions.



MAX-PLANCK-GESELLSCHAFT



contact: khui@mpi-inf.mpg.de