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Resource-aware Research on Universe and Matter: Call-to-Action in Digital Transformation

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Given the urgency to reduce fossil fuel energy production to make climate tipping points less likely, we call for resource-aware knowledge gain in the research areas on Universe and Matter with emphasis on the digital transformation. A portfolio of measures is described in detail and then summarized according to the timescales required for their implementation. The measures will both contribute to sustainable research and accelerate scientific progress through increased awareness of resource usage. This talk is based on the publication arXiv:2311.01169, which is the result of a three-days workshop on sustainability in digital transformation held in May 2023.

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