

Responsible Data Management

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Abstract

On 4th July 2023, Julia Stoyanovich delivered a keynote talk at the 31st Symposium on Advanced Database Systems in Galzignano Terme (Padua, Italy). The following is the abstract of her talk and a short biography.

Keywords

Responsible AI, Data Management, Fairness, SEBD 2023 Keynote

Abstract of the Keynote

Incorporating ethics and legal compliance into data-driven algorithmic systems has been attracting significant attention from the computing research community, most notably under the umbrella of fair and interpretable machine learning. Yet, much of this work has been limited to the "last mile" of data analysis, disregarding both the data lifecycle, and the lifecycle of a system's design, development, and use. In my talk, I argued that the decisions we make during data collection and preparation profoundly impact the robustness, fairness and interpretability of the systems we build, and that our responsibility for the operation of these systems does not stop once they are deployed. I discussed technical work, and placed this work into the broader context of policy, education, and public outreach.

Short Biography

Dr. Julia Stoyanovich is Institute Associate Professor of Computer Science and Engineering, Associate Professor of Data Science, and Director of the Center for Responsible AI at New York University. Her goal is to make "Responsible AI" synonymous with "AI". She works towards this goal by engaging in academic research, education and technology regulation, and by speaking about the benefits and harms of AI to practitioners and members of the public. Julia's research interests include AI ethics and legal compliance, data management and AI systems, and computational social choice. She has co-authored over 100 academic publications, and has written for the New York Times, the Wall Street Journal, and Le Monde. Julia has been teaching courses on responsible data science and AI to students, practitioners and the general public. She is a co-author of the "Data, Responsibly" and "We are AI" comic book series. She received her M.S. and Ph.D. degrees in Computer Science from Columbia University, and a B.S.

SEBD 2023: 31st Symposium on Advanced Database Systems, July 02–05, 2023, Galzignano Terme, Padua, Italy

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 CEUR Workshop Proceedings (CEUR-WS.org)

in Computer Science and in Mathematics & Statistics from UMass Amherst. Julia's work has been generously supported by the US National Science Foundation, Pivotal Ventures, JP Morgan Chase, and Meta Responsible AI, among others. She is a recipient of an NSF CAREER award and a Senior Member of the ACM.