Contribution ID: **128** Type: **not specified**

Domain Generalization and Adaptation in Digital Health (and beyond)

Statistical models and machine learning algorithms are often deployed in populations that differ from those on which they were trained, a challenge that is particularly acute in digital health. We discuss domain generalization and adaptation for a large-scale database from multiple countries with intensive care unit (ICU) data. We introduce Distributionally Robust Invariance Learning as an approach to exploiting stable structure across environments, and conclude with a brief discussion of the potential and limitations of a novel foundation model in this context.

Keywords

machine learning

Special/ Invited session

Classification

Mainly methodology

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Track Classification: Keynote