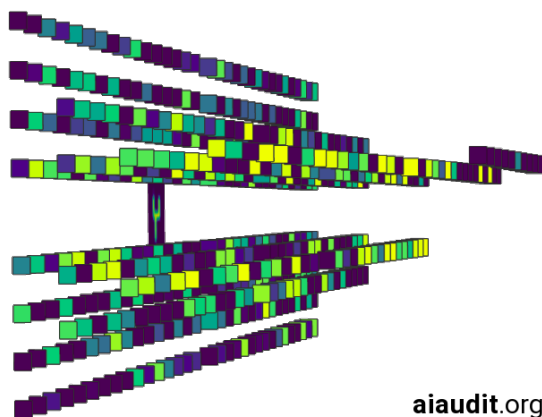

Call for Papers
Journal of Medical Systems
Special Collection

Machine Learning for Health: Algorithm Auditing & Quality Control



We invite researchers and practitioners in the fields of machine learning, medicine, regulation and quality management to submit work to the special collection *Machine Learning for Health: Algorithm Auditing & Quality Control*. The scope comprises machine learning for health (ML4H) trial audit reports as well as work related to methods, tools or open challenges in ML4H auditing. The resulting compendium is intended as a useful resource of examples and guidance for users, developers, vendors and auditors of ML4H systems to better manage and mitigate their particular risks. Manuscripts which treat topics from an integrated perspective across disciplines are encouraged. Below you can find a list of good example papers from each category.

Audit reports

- External Validation of a Widely Implemented Proprietary Sepsis Prediction Model in Hospitalized Patients [6]
- ML4H Auditing: From Paper to Practice [5]

Methods

- Benchmarking Neural Network Robustness to Common Corruptions and Perturbations [4]
- Panning for gold: ‘model-X’ knockoffs for high dimensional controlled variable selection [1]

Tools

- EvalAI: Towards Better Evaluation Systems for AI Agents [7]
- Developments in MLflow: A System to Accelerate the Machine Learning Lifecycle [2]

Open challenges

- Understanding deep learning (still) requires rethinking generalization [8]
- Underspecification presents challenges for credibility in modern machine learning [3]

Manuscripts should be submitted as **TODO: specify the paper category** through the JOMS Editorial Manager¹. Please use the document template provided by JOMS^{2,3}.

In case of questions you can reach the Editorial Team at **TODO: contact for questions**.

We are looking forward to receiving your interesting contributions.

On behalf of the Editorial Team

Jesse Ehrenfeld, Liz Hoffman, Luis Oala

Cyberspace, August 16, 2021

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¹ <https://www.editorialmanager.com/joms/default.aspx>

² \LaTeX https://static.springer.com/sgw/documents/468198/application/zip/LaTeX_DL_468198_01072021.zip

³ MS Word <https://static.springer.com/sgw/documents/431298/application/zip/sv-journ.zip>