

Towards Trustworthy Cross-patient Model Development

Ali El-Merhi^{1,2}, Helena Odenstedt Hergés^{1,2}, Linda Block^{1,2}, Mikael Elam³, Richard Vithal^{1,2}, Jaquette Liliencrantz³, Miroslaw Staron⁴

¹Sahlgrenska Academy, Institute of Clinical Sciences, University of Gothenburg, Gothenburg, Sweden, ² Department of anesthesia and intensive care, Sahlgrenska university hospital, Gothenburg, Sweden,

³ Institute of Neuroscience and physiology, Sahlgrenska Academy, University of Gothenburg, ⁴ Computer Science and Engineering, Chalmers | University of Gothenburg, Gothenburg, Sweden

Problem: How to use an ML model trained on one patient to diagnose another patient?

Research design: Use RandomForest and dense NN to predict clinical events during CEA.

Results: Patient's similarity of symptoms is crucial.

Solution: Reduce variability by creating a baseline for each patient.

YOU CAN READ THE PAPER AT: 2112.10441.PDF (ARXIV.ORG)



