

Interactive
Comment

Interactive comment on “Regression models tolerant to massively missing data: a case study in solar radiation nowcasting” by I. Žliobaitė et al.

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Thanks for bringing up Koller’s and Ramoni’s works, we have added and discussed them in the revised version. Bayesian nets present an interesting alternative for learning from incomplete data, but the goals and the task is somewhat different from what we are solving. In our setting training data is abundant, and an initial model can be learned from a subset that has no missing values. Bayesian nets can inherently learn from data with missing values, but once a model is ready, it does not seem to have any special mechanism for making predictions from incomplete data. In that case a Bayesian net would require an extra missing value imputation approach, just like a linear regression.

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We have also added pointers to streaming data research, as suggested (a framework paper Babcock et al 2002, and an edited book Aggarwal 2007). In the manuscript we have now emphasized, that streaming data analysis is different from the traditional retrospective data analysis, where data are first collected, cleaned, pre-processed, and then analyzed. Streaming data arrive continuously, and needs to be analyzed in real time.

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 7137, 2014.

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