Review ISZ_17

reviewers

Imię i Nazwisko 1	Maria Mazur Poi	nts:	23.5/27
Imię i Nazwisko 2	Filip Gąciarz Perce	ent:	87%

Problem formulation [4.5 | 5 pts]:

is the problem clearly stated Comments... [1 pt] what is the point of creating model, are potential use cases defined [1 pt] where do data comes from, what does it containt [1 pt] DAG has been drawn [0.5 pt] confoundings (pipe, fork, collider) were described

Data preprocessing [2 | 2 pts]:

Given counfounding should be better explained

[1 pt] is preprocessing step clearly described [1 pt] reasoning and types of actions taken on the dataset have been described

Model [4 | 4 pts]

[1 pt] are two different models specified [1 pt] are difference between two models explained

[1 pt]

is the difference in the models justified (e.g. does adding aditional parameter [1 pt] makes sense?) are models sufficiently described (what are formulas, what are parameters, what [1 pt] data are required) Priors [4|4 pts] [1 pt] Is it explained why particular priors for parameters were selected Have prior predictive checks been done for parameters (are parameters simulated [1 pt] from priors make sense) Have prior predictive checks been done for measurements (are measurements [1 pt] simulated from priors make sense) [1 pt] How prior parameters were selected Posterior analysis (model 1) [3 | 4 pts] were there any issues with the sampling? if there were what kind of ideas for [1 pt] mitigation were used [1 pt] are the samples from posterior predictive distribution analyzed are the data consistent with posterior predictive samples and is it sufficiently [1 pt] commented (if they are not then is the justification provided) have parameter marginal disrtibutions been analyzed (histograms of individual [0 pt] parametes plus summaries, are they diffuse or concentrated, what can we say about values)

were there any issues with the sampling? if there were what kind of ideas for

Posterior analysis (model 2) [3 | 4 pts]

mitigation were used

[1 pt]

- are the samples from posterior predictive distribution analyzed
- are the data consistent with posterior predictive samples and is it sufficiently commented (if they are not then is the justification provided)
- have parameter marginal disrtibutions been analyzed (histograms of individual parametes plus summaries, are they diffuse or concentrated, what can we say about values)

Model comparison [3 | 4 pts]

- Have models been compared using information criteria
- Have result for WAIC been discussed (is there a clear winner, or is there an overlap, were there any warnings)
- Have result for PSIS-LOO been discussed (is there a clear winner, or is there an overlap, were there any warnings)
- Results for WAIC and LOO should be better described
- Whas the model comparison discussed? Do authors agree with information [1 pt] criteria? Why in your opinion one model better than another