Simulation-based Inference

A Summary Written by Stefan Wezel

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Machine Learning for and with Dynamical Systems
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Abstract

Summarise the main messages of the paper in 2-4 sentences. There is no reason to do more, because the entire document is super short anyway. Mention the work that your paper is based on, in this example: Bosch et al. [2021]

Problem Setting

Traditional Approximate Bayesian Computation

Neural Approach

Possible Enhancements

Conclusion

Write 2-3 pages that summarise your topic.

Use `citet`: Bosch et al. [2021] and `citep`: [Bosch et al., 2021] for proper referencing. Cite thoroughly. Check proper capitalisation in your references.

Use only the provided maths commands use `align` for embedded maths (not `align*`):

$$\mathscr{F}, \mathbb{R}, \mathbb{N} \tag{1}$$

The `diff` command is for proper typesetting in integrals: $\int f(x)\,\mathrm{d}x$, not $\int f(x)dx$. If you need conditional probabilities, use `mid` for A conditioned on B: $p(A \mid B)$.

Write clearly; pay attention to clarity, simplicity, and – above all – correctness of your statements. Look up how to write a scientific document.

References

N. Bosch, P. Hennig, and F. Tronarp. Calibrated adaptive probabilistic ODE solvers. In *International Conference on Artificial Intelligence and Statistics*, pages 3466–3474. PMLR, 2021.