

## AI in Science

The Slovak Society for Computer Science (Slovenská informatická spoločnosť) is an association of professionals in informatics and IT. It strives to contribute to favourable conditions for the development of informatics and IT from education through science, applications, to government regulations. It represents Slovak informatics community in international associations (CEPIS, IFIP).

We are convinced Artificial Intelligence can be a useful tool in many areas but it also presents potential risks. In a sense it is similar to fire. It can be useful, providing warmth etc. Still, we do not distribute matches to kids. And we have legislation to punish those responsible for any harm fire caused. We should strive for a similar setting for AI.

The guidelines for AI in science should reflect the following:

### *Using AI in Science*

1. In science just like in other areas where AI is used it is crucial to have a clearly identifiable person responsible for the particular use of AI, i.e., the final responsibility for 'approving' the result must stay with a person.
2. The use of AI must be clearly declared (where and for what it was used), including the probability the outcomes can be 'trusted'.
3. The data source used for training the AI for particular application should be open so that an independent verification of the results can be performed (just like validating experiments by another research team).
4. The use of AI in science must not violate ethical norms.
5. Any bias caused by improper choice of the training data set must be avoided.
6. The use of data must not violate the GDPR.

### *The Science about AI*

7. When considering science about AI it is important to support research of 'Explainable AI'. The use of such AI systems will help to avoid or minimize potential problems mentioned above.

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