Proceedings of the 5th Symposium of the Norwegian AI Society (NAIS 2023)

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This volume contains the papers presented at the 5th Symposium of the Norwegian AI Society (NAIS 2023)[1], held during June 14–15, 2023, at the Department of Information Science and Media Studies of the University of Bergen in Bergen, Norway.

As with previous installments of NAIS, the focus of the symposium was AI broadly conceived, including but not limited to the following topics: machine learning, knowledge representation, robotics, planning and scheduling, natural language processing, computer vision, search algorithms, multi-agent systems, industrial applications, and philosophical and ethical foundations. We received 16 full and short paper submissions, and each paper was reviewed by at least two members of the Program Committee. Out of 16 submissions, the committee decided to accept 10 papers, 8 full and 2 short papers. These were presented in three technical sessions, two on Wednesday June 14th, and one on Thursday June 15th.

In addition to paper presentation, we had three invited keynote talks and one public lecture:

- **Keynote I**, June 14th: "*A Theory for AI Computation?*" by Ana Ozaki (University of Oslo).
- **Keynote II**, June 14th: "*Endocrine digital twin as an example of Medical AI*" by Helge Ræder (University of Bergen).
- **Public lecture**, June 14th: "*Maskiner tenkjer ikkje. Dei reknar*" by Bjørnar Tessem (University of Bergen).
- **Keynote III**, June 15th: "*AI and Games*" by Peter Wingaard (CEO Rain AS).

As Program Chairs we would like to thank all the people who contributed to the organisation of NAIS 2023. We thank all the following members of the Program Committee for their incredible work within a limited time frame:

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- Kerstin Bach (Norwegian University of Science and Technology)
- Laurence Dierickx (University of Bergen)
- Mehdi Elahi (University of Bergen)
- Dag Elgesem (University of Bergen)
- Odd Erik Gundersen (Norwegian University of Science and Technology)

[1]Web-page of the event: https://aisociety.no/nais2023/

- Hugo Lewi Hammer (Oslo Metropolitan University)
- Vadim Kimmelman (University of Bergen)
- Helge Langseth (Norwegian University of Science and Technology)
- Ole Mengshoel (Norwegian University of Science and Technology)
- Andreas Lothe Opdahl (University of Bergen)
- Monica Patrascu (University of Bergen)
- Massimiliano Ruocco (Norwegian University of Science and Technology)
- Martin Sætra (Norwegian Meteorological Institute and Oslo Metropolitan University)
- Tiago Veiga (Norwegian University of Science and Technology)
- Valeria Vitelli (University of Oslo)

June 2023   Rustam Galimullin
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