

# Norsk Informatikkonferanse (NIK) 2024 Forord

Patrick Stünkel<sup>1</sup>[0000–0002–0537–295X] and Eduard  
Kamburjan<sup>2,3</sup>[0000–0002–0996–2543]

<sup>1</sup> Western Norway University of Applied Sciences, Bergen, Norway

`past@hvl.no`

<sup>2</sup> University of Oslo, Norway

`eduard@ifi.uio.no`

<sup>3</sup> IT University of Copenhagen

NIK (Norsk Informatikkonferanse) is a national conference that aims to spread the knowledge of research and advanced development work in the field of informatics. The conference encourages the submission of papers from various genres and topics within theoretical and applied informatics. NIK welcomes diversity and cross-disciplinary approaches in methodological techniques and application areas.

Since 1988, NIK has been held annually. The 36<sup>th</sup> edition of NIK was a part of the NIKT 2024 conference, hosted by the Department of Information Science and Media Studies (INFOMEDIA), at the University of Bergen, Norway. We would like to thank the authors for their submitted contributions and the programme committee for reviewing and discussion of the submitted papers.

## Accepted Papers

This year, 15 regular papers were submitted to NIK, and after a thorough review process, where each paper was reviewed by at least three members of the programme committee, 11 papers were accepted for publication and 1 paper was selected for a poster presentation.

- *Måilys Hau, Henrik Kildahl, Federico Veronesi, Frank Lindseth, Bjørnar Grenne and Gabriel Kiss* Automatic 3D Segmentation of Closed Mitral Valve Leaflets on Transesophageal Echocardiogram
- *Shanmugapriya Survarachakan, Michael Staff Larsen, Rahul Prasanna Kumar and Frank Lindseth* Automatic Segmentation of Hepatic and Portal Veins using SwinUNETR and Multi-Task Learning
- *Jarl Sondre Sæther, Bendik Holter, Frank Lindseth and Gabriel Kiss* Enhancing Cell Detection with Transformer-Based Architectures in Multi-Level Magnification Classification for Computational Pathology
- *Aleksander Pedersen, Tanita Fossli Brustad, Mona Lahm Høgbakk and Silje C. Wangberg* Augmented reality projections as a tool to enrich simulations in health care education: Combining AR projector technology with manikins
- *Joachim Andreassen and Donn Morrison* Discovery of endianness and instruction size characteristics in binary programs from unknown instruction set architectures

- *Jungwon Seo, Ferhat Ozgur Catak and Chunming Rong* Understanding Federated Learning from IID to Non-IID dataset: An Experimental Study
- *Miriam Kopperstad Wolff, Sam Royston, Anders Lyngvi Fougner, Hans Georg Schaathun, Martin Steinert and Rune Volden* GluPredKit: Development and User Evaluation of a Standardization Software for Blood Glucose Prediction
- *Gloria Anne Babile Kasangu, Alain D. Starke, Anna Nilsen and Christoph Trattner* Picture This: How Image Filters Affect Trust in Online News
- *Bilal Mahmood, Mehdi Elahi, Lubos Steskal and Samia Touileb* Can Large Language Models Support Editors Pick Related News Articles?
- *Khadija Seddik* Exploring the Ethical Challenges of AI and Recommender Systems in the Democratic Public Sphere
- *Balazs Mosolygo, Bahareh Fatemi, Fazle Rabbi and Andreas Opdahl* Evaluating GraphRAG's Role in Improving Contextual Understanding of News in Newsrooms.

### Accepted Poster

- *Anastasiia Klimashevskaja* Philosophical Perspectives on Recommender Systems: Ethical Implications, Biases, and Their Impact on Autonomy and Privacy

Bergen, November 2024

Patrick Stünkel and Eduard Kamburjan (programme committee chairs)

### NIK programme committee

- Gabriel Hanssen Kiss, Norwegian University of Science and Technology
- Eric Jul, University of Oslo
- Issam Raïs, University of Tromsø
- Michael Kirkedal Thomsen, University of Oslo and University of Copenhagen
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- Eduard Kamburjan, University of Oslo and IT University of Copenhagen
- Patrick Stünkel, Western Norway University of Applied Sciences

**Sub-Reviewers**

We would also like to take the opportunity to thank:

- Samia Touileb, University of Bergen
- Loic Guegan, University of Tromsø
- Benjamin Kille, Norwegian University of Science and Technology
- Petra Galuščáková, University of Stavanger, and
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who have served as reviewers for NIK this year.