

Document Version

Final published version

Citation (APA)

Oliehoek, F. A., Kok, M., & Verwer, S. (2025). Preface. In F. A. Oliehoek, M. Kok, & S. Verwer (Eds.), *Artificial Intelligence and Machine Learning: 35th Benelux Conference, BNAIC/Benelearn 2023, Delft, The Netherlands, November 8–10, 2023, Revised Selected Papers* (pp. v). (Communications in Computer and Information Science; Vol. 2187 CCIS). Springer.

Important note

To cite this publication, please use the final published version (if applicable). Please check the document version above.

Copyright

In case the licence states “Dutch Copyright Act (Article 25fa)”, this publication was made available Green Open Access via the TU Delft Institutional Repository pursuant to Dutch Copyright Act (Article 25fa, the Taverne amendment). This provision does not affect copyright ownership. Unless copyright is transferred by contract or statute, it remains with the copyright holder.

Sharing and reuse

Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

Takedown policy

Please contact us and provide details if you believe this document breaches copyrights. We will remove access to the work immediately and investigate your claim.

Green Open Access added to TU Delft Institutional Repository

'You share, we take care!' - Taverne project

<https://www.openaccess.nl/en/you-share-we-take-care>

Otherwise as indicated in the copyright section: the publisher is the copyright holder of this work and the author uses the Dutch legislation to make this work public.

Frans A. Oliehoek
Manon Kok
Sicco Verwer (Eds.)

Communications in Computer and Information Science

2187

Artificial Intelligence and Machine Learning

35th Benelux Conference, BNAIC/Benelearn 2023
Delft, The Netherlands, November 8–10, 2023
Revised Selected Papers

 Springer

 **BNAIC** 2023
BeNeLearn

Editors

Frans A. Oliehoek 
Delft University of Technology
Delft, The Netherlands

Manon Kok 
Delft University of Technology
Delft, The Netherlands

Sicco Verwer 
Delft University of Technology
Delft, The Netherlands

ISSN 1865-0929 ISSN 1865-0937 (electronic)
Communications in Computer and Information Science
ISBN 978-3-031-74649-9 ISBN 978-3-031-74650-5 (eBook)
<https://doi.org/10.1007/978-3-031-74650-5>

© The Editor(s) (if applicable) and The Author(s), under exclusive license
to Springer Nature Switzerland AG 2025

This work is subject to copyright. All rights are solely and exclusively licensed by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

If disposing of this product, please recycle the paper.

Preface

In this volume, we are happy to present the post-proceedings of BNAIC/BeNeLearn 2023, the joint conference on Artificial Intelligence and Machine Learning in the BeNeLux, which took place at TU Delft. It is the main regional conference on these topics and has a long tradition: in 2018, the 30th Benelux Conference on Artificial Intelligence (BNAIC) and the 27th Belgian Dutch Conference on Machine Learning (Benelearn) were jointly organized in 's Hertogenbosch, and this has been repeated annually since.

The conference took place from Wednesday November 8th to Friday November 10th, filling nearly three full days with invited and contributed talks, poster presentations, demo's and an industry session. The conference was preceded by a co-located ELLIS Benelux PhD event. The scientific track consisted of different types of papers: A) regular papers, B) encore abstracts of recently published work, C) demonstration papers, and D) thesis abstracts. A total of 139 submissions were received (47 type A papers, 49 encore abstracts, 5 demonstration papers, and 38 thesis abstracts), out of which 122 were selected for presentation, following a single-blind peer review process in which the type A, C and D papers received at least two reviews each. Decisions on type B papers, which report on work that has already passed peer review, were made by the program chairs. Following a round of revisions and another round of peer review with a minimum of two reviews per paper, 14 papers were selected for these post-proceedings.

The contributed type A and B papers were given 20 min to present their work, as well as the opportunity to present a poster. The thesis abstracts were presented in the poster session and advertised in lightning poster pitch sessions. Furthermore, the program featured two exciting keynotes by Jan-Willem van der Meent (Universiteit van Amsterdam) and Ann Nowé (Vrije Universiteit Brussel), a panel on “AI in the scientific world and industry: opportunities and challenges”, a session led by BNVKI with invited talks from the Polish AI Society, and a FACt session to highlight upcoming faculty in AI. We gave awards for the best paper by Yannick Molinghen, Raphaël Avalos, Mark Van Achter, Ann Nowé and Tom Lenaerts, the best student abstract by Eline Bovy, Marnix Suilen and Nils Jansen, and the best demo by Junhan Wen, Andrei Dascalu, Dragomir Drashkov, Marinski, Bhatti, Herrebout and Michael Weinmann.

Organizing a conference takes an incredible effort, and we would like to thank our co-organizers, student volunteers, and the support staff of TU Delft Mechanical Engineering faculty. The conference sponsors are also warmly thanked. These were at level platinum: BNVKI, SIKS; at level gold: Convergence AI Port Center, Dyflexis, ORTEC, TU Delft AI Initiative; and at level silver: ASML.

July 2024

Frans A. Oliehoek
Manon Kok
Sicco Verwer