

# **Lecture Notes in Artificial Intelligence**

**13101**

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# Artificial Intelligence XXXVIII

41st SGAI International Conference  
on Artificial Intelligence, AI 2021  
Cambridge, UK, December 14–16, 2021  
Proceedings

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ISSN 0302-9743

ISSN 1611-3349 (electronic)

Lecture Notes in Artificial Intelligence

ISBN 978-3-030-91099-0

ISBN 978-3-030-91100-3 (eBook)

<https://doi.org/10.1007/978-3-030-91100-3>

LNCS Sublibrary: SL7 – Artificial Intelligence

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The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

# Preface

This volume, entitled Artificial Intelligence XXXVIII, comprises the refereed papers presented at the 41st SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in December 2021, in both the technical and the application streams. The conference was organised by SGAI, the British Computer Society Specialist Group on Artificial Intelligence. Because of the COVID-19 pandemic the event was held as a virtual conference using video-conferencing software.

The technical papers included present new and innovative developments in the field, divided into sections on machine learning and AI techniques. This year's Donald Michie Memorial Award for the best refereed technical paper was won by a paper entitled 'On the Generalization Abilities of Fine-Tuned Commonsense Language Representation Models' by Ke Shen and Mayank Kejriwal (University of Southern California, USA).

The application papers included present innovative applications of AI techniques in a number of subject domains. This year, the papers are divided into sections on applications of machine learning, AI for medicine and advances in applied AI. This year's Rob Milne Memorial Award for the best refereed application paper was won by a paper entitled 'Patients Forecasting in Emergency Services by using Machine Learning and Exogenous Variables' by Hugo Álvarez Chaves, David F. Barrero, Maria D. R-Moreno, and Mario Cobos (Universidad de Alcalá, Spain).

The volume also includes the text of short papers in both streams presented as posters at the conference.

On behalf of the conference Organising Committee, we would like to thank all those who contributed to the organisation of this year's programme, in particular the Program Committee members, the Executive Program Committees, and our administrators Mandy Bauer and Bryony Bramer.

September 2021

Max Bramer  
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