

## Preface

This book contains the proceedings of the 3rd Polish Conference on Artificial Intelligence (PP-RAI'2022). The conference was held in Gdynia, Poland, on April 25-27, 2022. The conference was held under the scientific supervision of the Polish Alliance for the Development of Artificial Intelligence.

Polish Alliance for the Development of Artificial Intelligence (pol.: *Polskie Porozumienie na Rzecz Rozwoju Sztucznej Inteligencji* - PP-RAI) was established in 2018 based on the agreement and declaration of mutual cooperation to achieve the goal of facilitating and supporting the AI development in Poland. The following scientific organizations were the parties of this agreement:

- PSSI - Polskie Stowarzyszenie Sztucznej Inteligencji,
- PTSN - Polskie Towarzystwo Sieci Neuronowych,
- PL SIGML - Polska Grupa Systemów Uczących się,
- IEEE SMC · Polski Oddział IEEE SMC (Polish Chapter of the IEEE Systems, Man, and Cybernetics Society),
- IEEE CIS · Polski Oddział IEEE Computational Intelligence Society.

The PP-RAI provides opportunities for the presentation of new and original research results in different areas of artificial intelligence. The PP-RAI also provides a national forum for sharing, exchanging, presenting, and discussing ideas relevant to the development of the AI methods and tools. The Alliance encourages the growth of social interest in AI and suggests strategic directions of research and applications, encouraging interdisciplinary involvement and cooperation.

This year's conference included 3 plenary lectures offered by internationally recognized experts, 4 discussion panels on hot topics relevant to AI development, and 110 theoretical and application papers presented during 12 scientific sessions. The proceedings contain only papers reviewed and selected by the Program Committee and the Reviewer Board from all presented at the scientific sessions.

We would like to thank all the authors for their effort and paper preparation and presentations. We also gratefully acknowledge the hard work of the track chairs, as well as, program committee members and the additional reviewers for their input and involvement. Their contribution has made an important impact on the PP-RAI'2022 conference program.

*Piotr Jędrzejowicz  
Ireneusz Czarnowski*

*April, 2022*

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