

Editorial

Highlights of AI Research in Europe

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AI Communications is the official partner journal of the European Association for Artificial Intelligence (EurAI), as reflected among others in its subtitle: the European Journal on Artificial Intelligence. EurAI is a society of societies; that is, the members of EurAI are national AI societies from all across Europe. To strengthen the connection between AI Communications and EurAI, in July 2021 we have invited each of these EurAI member societies to nominate one paper, reflecting the best research from within their society during the preceding year. Each society was free to select the criteria for their nominations. Overall, the call led to expressions of interest from 10 societies, 7 of which resulted in a submission for this special issue. All the submissions went through a fast-tracked version of the normal peer review process, which led to the acceptance of the 5 papers in this special issue. These papers, and their nominating societies, are:

- Angeliki Koutsimpela and Konstantinos D. Koutroumbas: A new stochastic gradient descent possibilistic clustering algorithm (nominated by the Greek society EETN)
- Andrei C. Apostol et al.: Pruning by leveraging training dynamics (nominated by the Benelux society BNVKI)
- György Kovács et al.: Leveraging external resources for offensive content detection in social media (nominated by the Swedish society SAIS)
- Marcella Cornia et al.: Explaining Transformer-based Image Captioning Models: An Empirical Analysis (nominated by the Italian society AI*IA)
- Chu-Min Li et al.: Boosting Branch-and-Bound MaxSAT Solvers with Clause Learning (nominated by the Catalan society ACIA)

As is immediately obvious from their titles, these works do not only exemplify the excellence of AI research in Europe, but also its breadth, covering topics in machine learning, natural language processing, computer vision, and knowledge representation and reasoning.

One of the goals of AI Communications is to showcase the best AI-related research from Europe and the world. We are pleased with the results from this special issue.

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