Preface: The 13th International Conference on Probabilistic Graphical Models (PGM 2026)

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This volume contains the papers presented at the 13th International Conference on Probabilistic Graphical Models (PGM 2026), held in València, Spain, from 9 to 11 September 2026 at the Institut Valencià d'Art Modern (IVAM). PGM is a biennial conference that brings together researchers working on all aspects of graphical models for probabilistic reasoning, learning and decision making, from theory and algorithms to applications.

The conference received 64 submissions, of which 7 were desk rejected. Each of the remaining 57 papers was reviewed by at least three members of the programme committee, and 46 papers were accepted for publication in these proceedings. The papers were presented in six oral sessions and two poster sessions, covering causal discovery and structure learning, inference algorithms, counterfactuals and causal effects, federated learning, and models with latent variables, among other topics.

The programme included three invited talks: Sebastian Engelke on extremal graphical models, David Rossell on Bayesian computation for high-dimensional Gaussian graphical models with spike-and-slab priors, and Marlene Kretschmer on understanding regional climate variability through causal data science and machine learning. On 8 September the conference was preceded by the Workshop on Probabilistic Graphical Models for Earth System Science (PGM-ESS), with invited talks by Urmi Ninad and Vassilis Sitokonstantinou.

We thank the members of the programme committee and all reviewers for their careful work, the authors for their contributions, and the invited speakers for their talks. We are grateful to the Conselleria d'Educació, Cultura i Universitats of the Generalitat Valenciana, the Universitat de València, the Artificial Intelligence Journal, BayesFusion and Hugin Expert for their support, to IVAM for hosting the conference, to the administrative office of the Departament d'Estadística i Investigació Operativa of the Universitat de València for their invaluable help, and to the volunteers who helped run it. Finally, we thank PMLR for publishing these proceedings.

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