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Dragos Margineantu

Biography



Dragos Margineantu, Ph.D.
Boeing AI Chief Technologist
Senior Technical Fellow

Dragos Margineantu is a Boeing Senior Technical Fellow and Artificial Intelligence (AI) Chief Technologist who is the technical lead of AI research and engineering in Boeing.

His interests include AI methods for safety-critical systems, autonomous flight, anomaly and surprise detection & handling, reasoning under uncertainty, validation and testing of decision systems, cost-sensitive, active, ensemble learning, and inverse reinforcement learning.

Dragos was one of the pioneers in research on ensemble learning and cost-sensitive learning and on statistical testing of learned models.

At Boeing, he is the technical lead of the assurance and certification efforts for future aviation advisory systems that are AI-based, developed assurance methods for decision systems, AI-based solutions for autonomous flight, airplane maintenance, airplane performance, surveillance, and security. Dragos' team effort for safer certifiable systems for taxi and landing was highlighted in the September 15-18, 2025 issue of Aviation Week & Space Technology ("*Boeing Assesses AI Certifiability In Automated Taxiing, Runway Safety*").

Margineantu served as the Boeing principal investigator (PI) of multiple Defense Advanced Research Projects Agency (DARPA) projects and chaired major ML and data science conferences. Margineantu serves as the Action Editor for Special Issues for the Machine Learning Journal (MLj), edited by Springer.

Dragos Margineantu was a keynote speaker at the 2024 KDD conference, the premier data mining research conference. Over the last decade, Dragos co-advised graduate students at Massachusetts Institute of Technology (MIT) and KU Leuven in Belgium, served on Canada Research Chair committees, and on NSF review panels. Together with Mohamed Zaki and Sanjay Chawla, he started and co-chaired the Machine Learning Data Analytics Symposia (MLDAS) series since 2014.

In his free time Dragos is coaching middle schoolers for mathematics competitions and enjoys nature photography.

Dragos Margineantu earned a Ph.D. in Machine Learning from Oregon State University in 2001.