

GENERATIVE MODELING WITHOUT NEURAL NETWORKS

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In this talk, we will address the question of how to augment a dataset whose distribution appears to be supported on a singular set or on several disconnected components. This problem remains challenging in AI for most current neural-network-based approaches, including GANs, VAEs, and diffusion models.

We will propose a rather different approach, combining tools from mathematical analysis and statistics.

Joint work with M. Allouche et S. Girard