



Bio V1 (français)

Alain Tapp est professeur au département d'informatique et de recherche opérationnelle (DIRO) de l'Université de Montréal. Après une prolifique carrière en informatique quantique il a effectué une bifurcation importante vers le domaine de l'intelligence artificielle. Alain est membre associé MILA, IVADO et CRM. De façon plus spécifique il se consacre aux domaines des fondements de l'apprentissage automatique et leurs applications au traitement du langage.

Bio V1 (English)

Alain Tapp is a professor in the Department of Computer Science and Operations Research (DIRO) at the Université de Montréal. After a prolific career in quantum computing, he recently became an associate member of the Montreal Institute for Learning Algorithms (MILA) and is now fully dedicated to the field of artificial intelligence. His interests concern machine learning techniques, but also the impact of these technologies on society.

Alain Tapp is a professor in the Department of Computer Science and Operations Research (DIRO) at the Université de Montréal. He is a multidisciplinary researcher with contributions to quantum mechanics, computational complexity, cryptography, information theory, algorithms, ethics of algorithm, machine learning and recently computational linguistics. He is a member of the Centre de Recherche Mathématique and associate to MILA.

Title : Word representations

In this lecture I will present some recent breakthroughs in discrete word representation based on language models. I will show that using an appropriate cost function minimisation in deep learning, one can learn word embedding with discrete features that have impressive semantic relevance.