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Supercomputers Adore Deep Learning

Wednesday 4 December 2024 10:10 (30 minutes)

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In recent years, computer experts have transitioned from mainly designing supercomputers to becoming significant users. The lecture will explore the reasons for the twist, primarily driven by advancements in graphics accelerators. We will delve into the design of graphics accelerators, highlighting the importance of special computational units like tensor cores and new number representations to excel developments in artificial intelligence.

Uroš Lotrič is a professor at the Faculty of Computer and Information Science, University of Ljubljana. He lectures courses on distributed and high-performance computing. His main research interests include approximate and high-performance computing. He is involved in the national supercomputing competence center and cooperates on several European supercomputing projects.

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