



ID de Contribution: 9

Type: **Contribution orale**

## **Contributing to reproducible software measurements of energy consumption for machine learning**

*jeudi 26 février 2026 15:00 (20 minutes)*

This work is part of the AI domain of the DATA program, and more specifically about sensors to obtain the energy consumption and machine learning algorithms. This work is being carried out in the LIMOS laboratory.

High-performance computing require careful management of power and energy budgets. Much of the work to achieve these energy-consumption goals will have to be done through hardware improvements. On the other hand, responsibility for using available hardware tools lies with both software and applications. Software measurements must be available to evaluate the consumption of applications and particularly those of high-performance computing in the context of machine learning applications. We will use these software measurement tools to generate reference data that will serve as the basis for further research into how to reduce energy consumption.

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**Classification de Session:** Foundations and Sustainability in Machine Learning