Computing with just the right amount of resources has always been a key problem in both hardware and software-oriented settings. In this context, energy efficient computing is an issue that is becoming more and more critical as the slowdown and eventual end of Moore’s law is in sight.

The goal of my research is to aid the development of energy-efficient algorithms and systems by attacking the problem at the numeric/algorithmic level. This leads to approaches that are usually application-specific, but which rely on tools from various domains such as approximation theory, computer arithmetic, numerical analysis, number theory and convex and integer optimisation.

In this talk I will present how these different domains come together to solve resource-efficient design problems in signal processing and machine learning.
À LIRE AUSSI

SÉMINAIRE

Département Informatique et télécommunications

Séminaire #1 mercredi 16/09/2020 par David Pichardie : Formal Verification of a Constant-Time Preserving C Compiler

SÉMINAIRE

Département Informatique et télécommunications

Séminaire #2 mercredi 30/09/2020 par Stéphanie Challita : Automated Reverse-Engineering of a Cloud API

SÉMINAIRE

Département Informatique et télécommunications

Séminaire #3 mercredi 04/11/2020 par Ocan Sankur : An Abstraction Technique for Parameterized Model Checking of Leader Election Protocols: Application to FTSP

DOCUMENTATION

Vous souhaitez recevoir plus d'information sur l'ENS Rennes, vous pouvez pour cela remplir le formulaire de demande de documentation.