

# **Autotuning Parallel Application in Heterogeneous Systems**

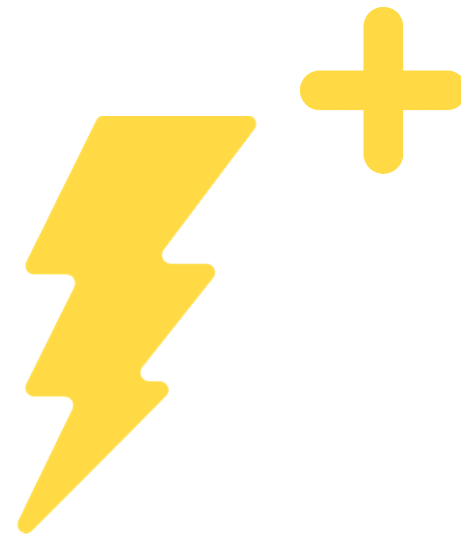
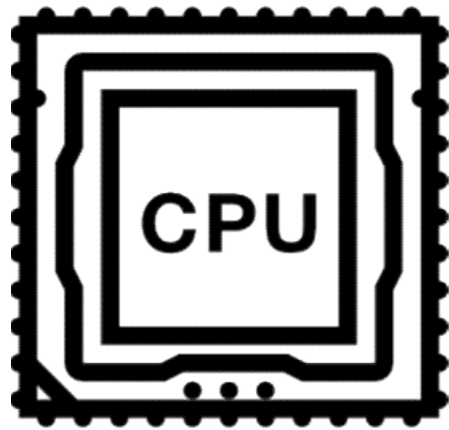
João Alberto Trigo de Bordalo Morais

Supervisor:  
Jorge Manuel Gomes Barbosa

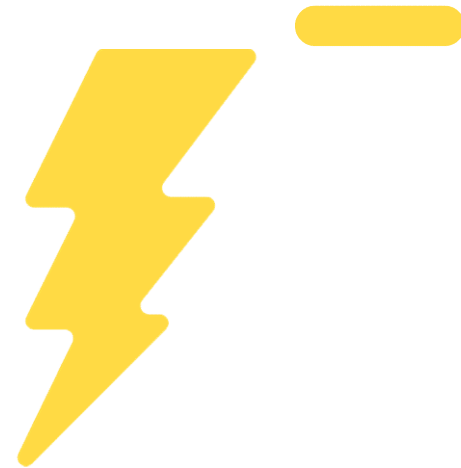
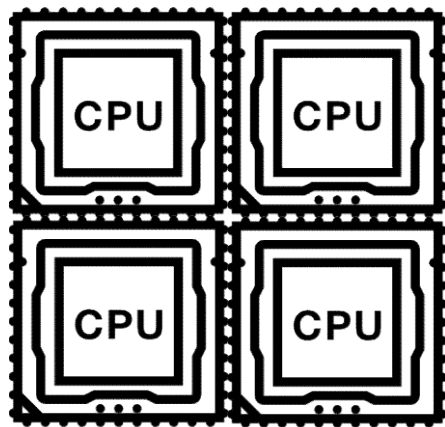
# Agenda

- Context
- Problem
- Possible Solution
- Impact

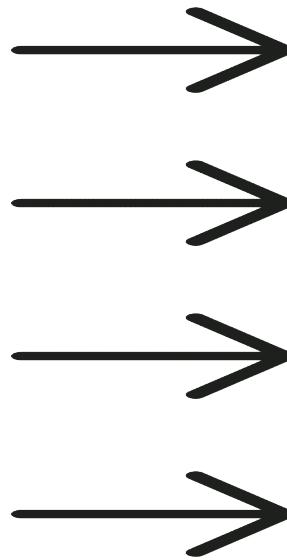
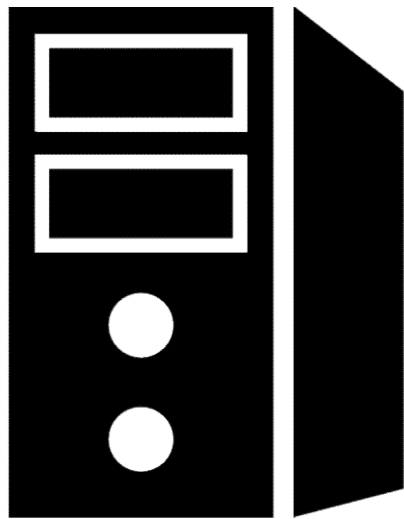
# Context



# Context



# Context



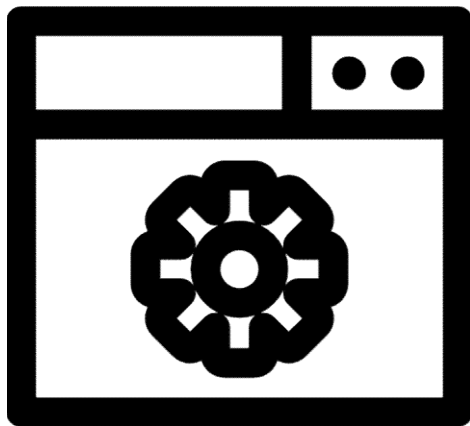
**CPU**

**GPU**

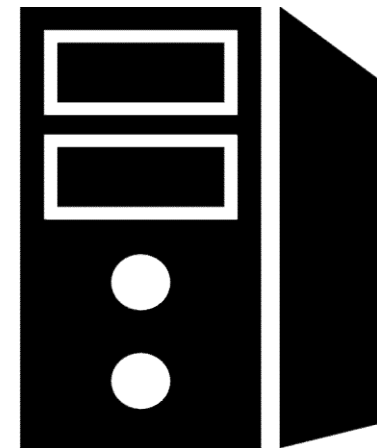
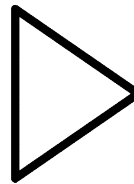
**XEON PHI**

**FPGA**

# Problem

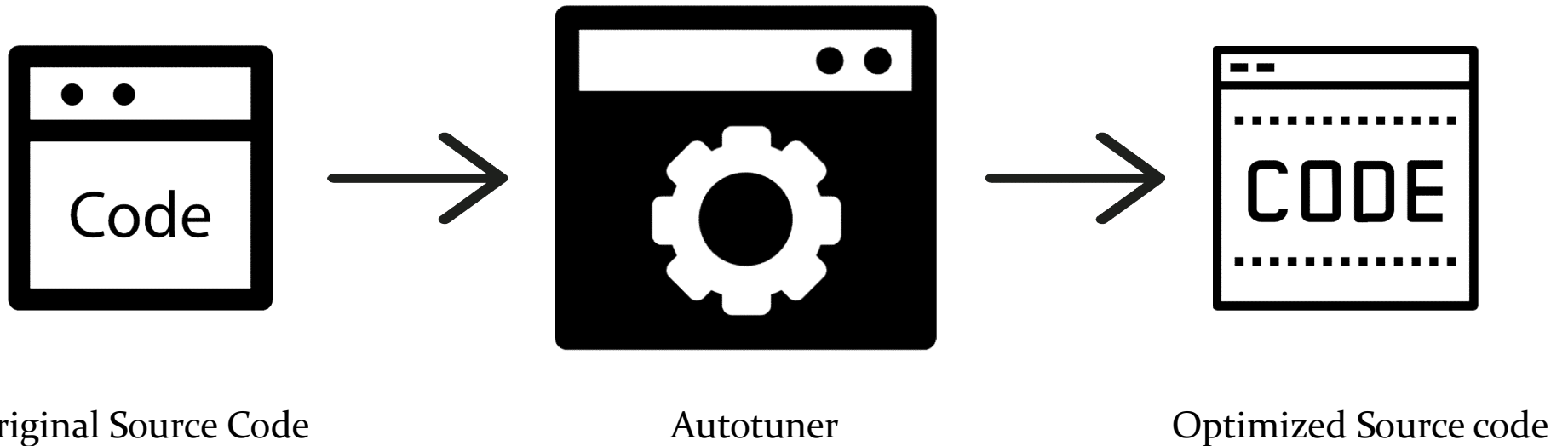


Software Application



Heterogeneous System

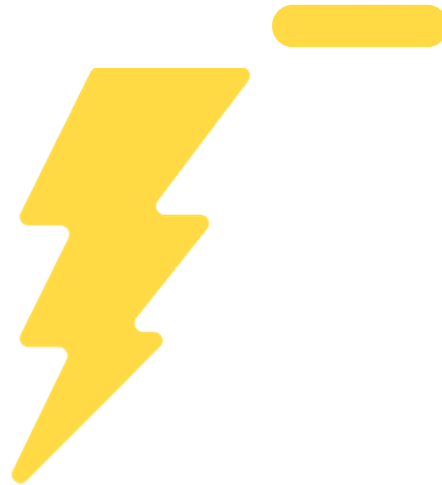
# Possible Solution



# Impact



Highest Performance



Less Energy Consumed



Developers' Time Saved



