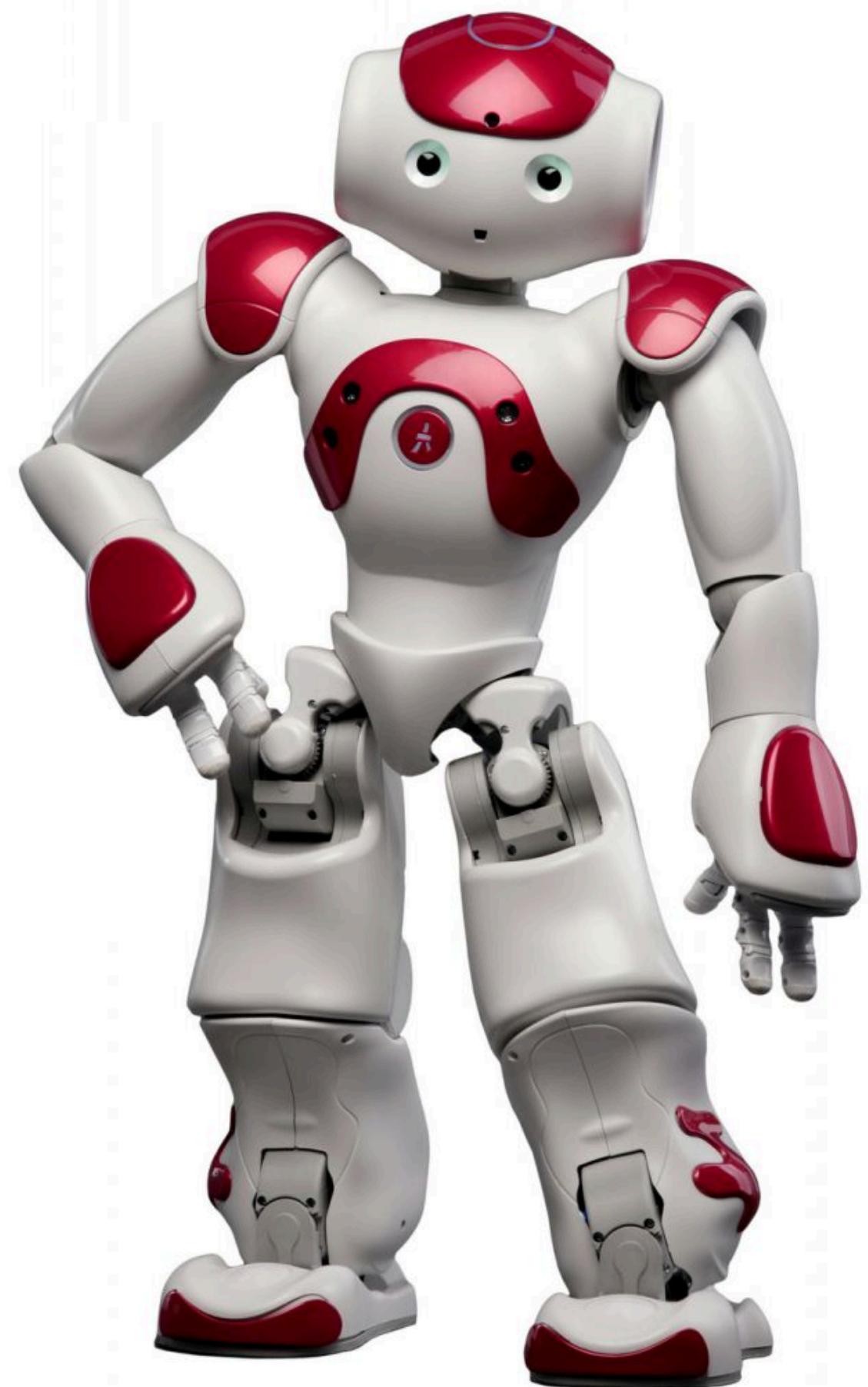


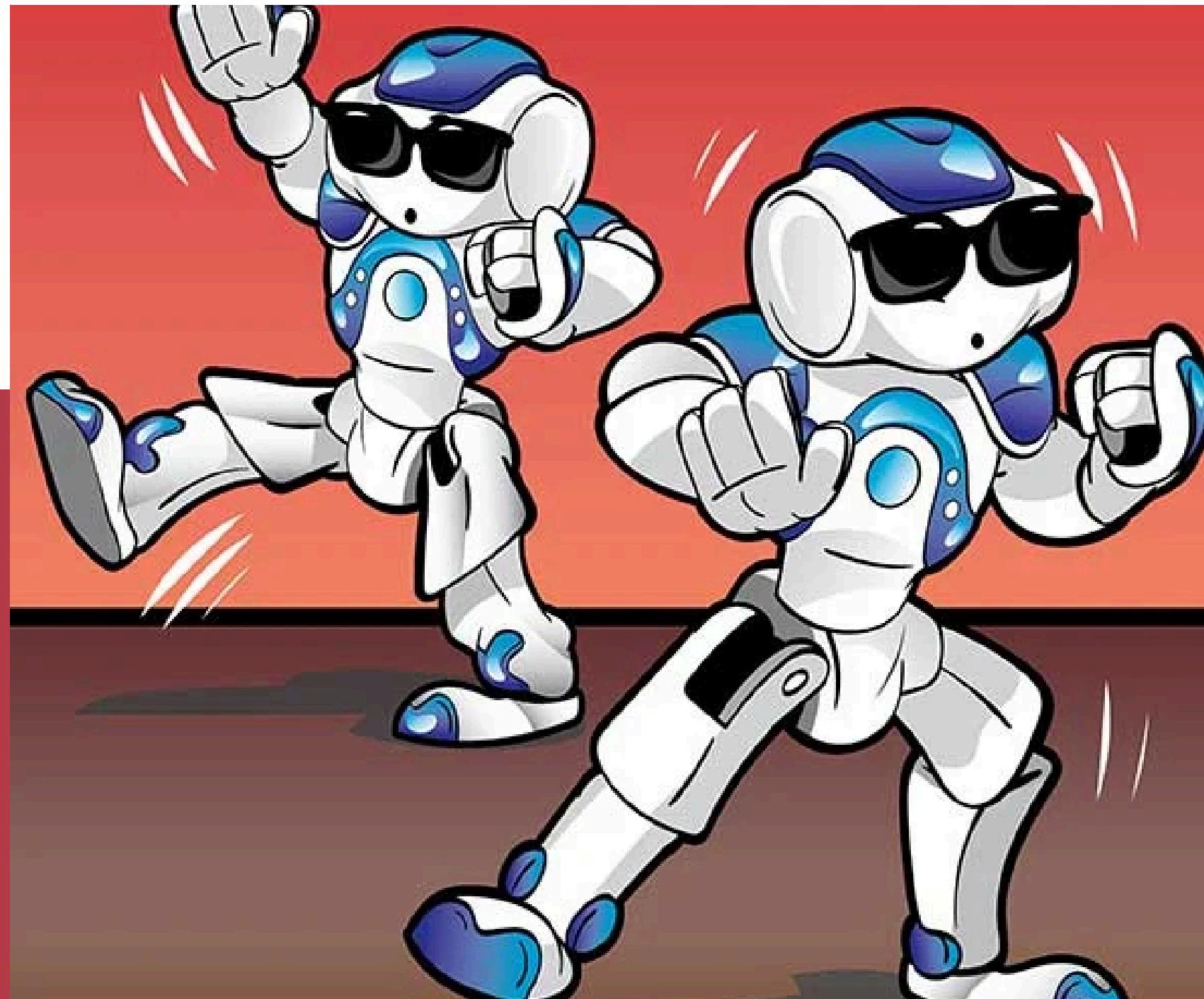
NAO PLANNING CHALLENGE 2025

LORENZO COLLIVA
GIADA DE MICCO



BallaConNAO





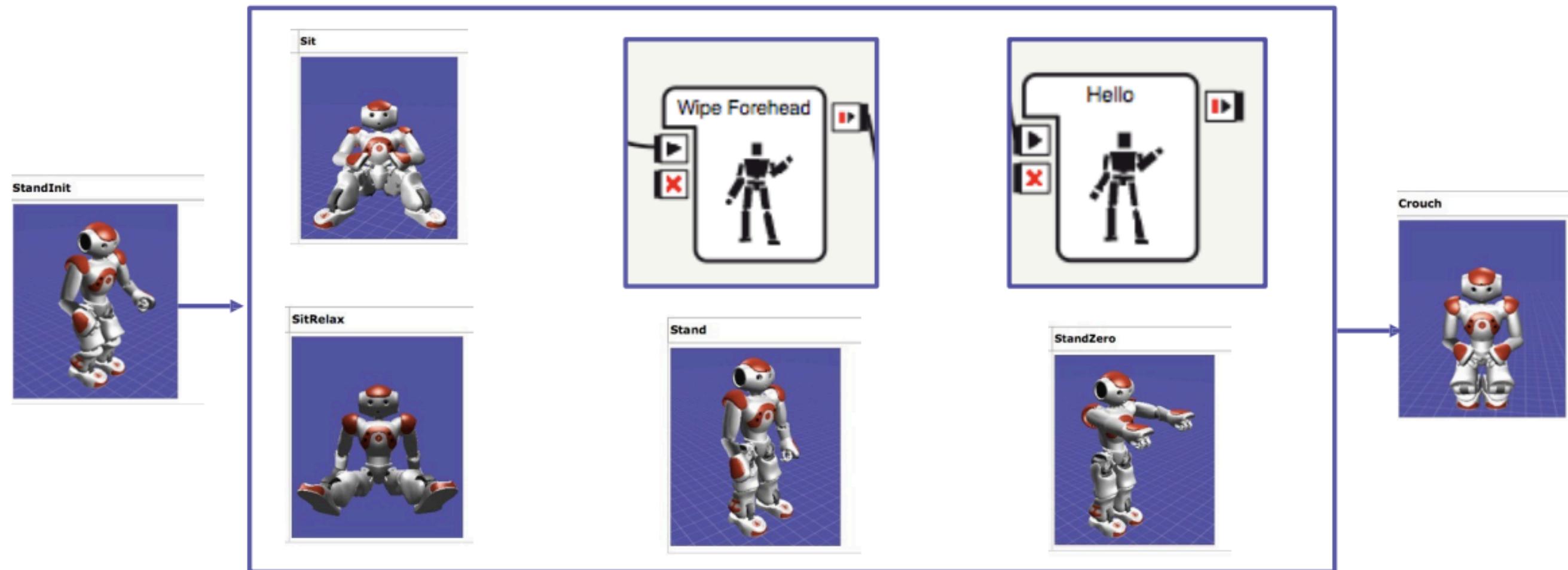
DANCE COREOGRAPHY

Reggaeton Song: Muevelou - Natanael
cano



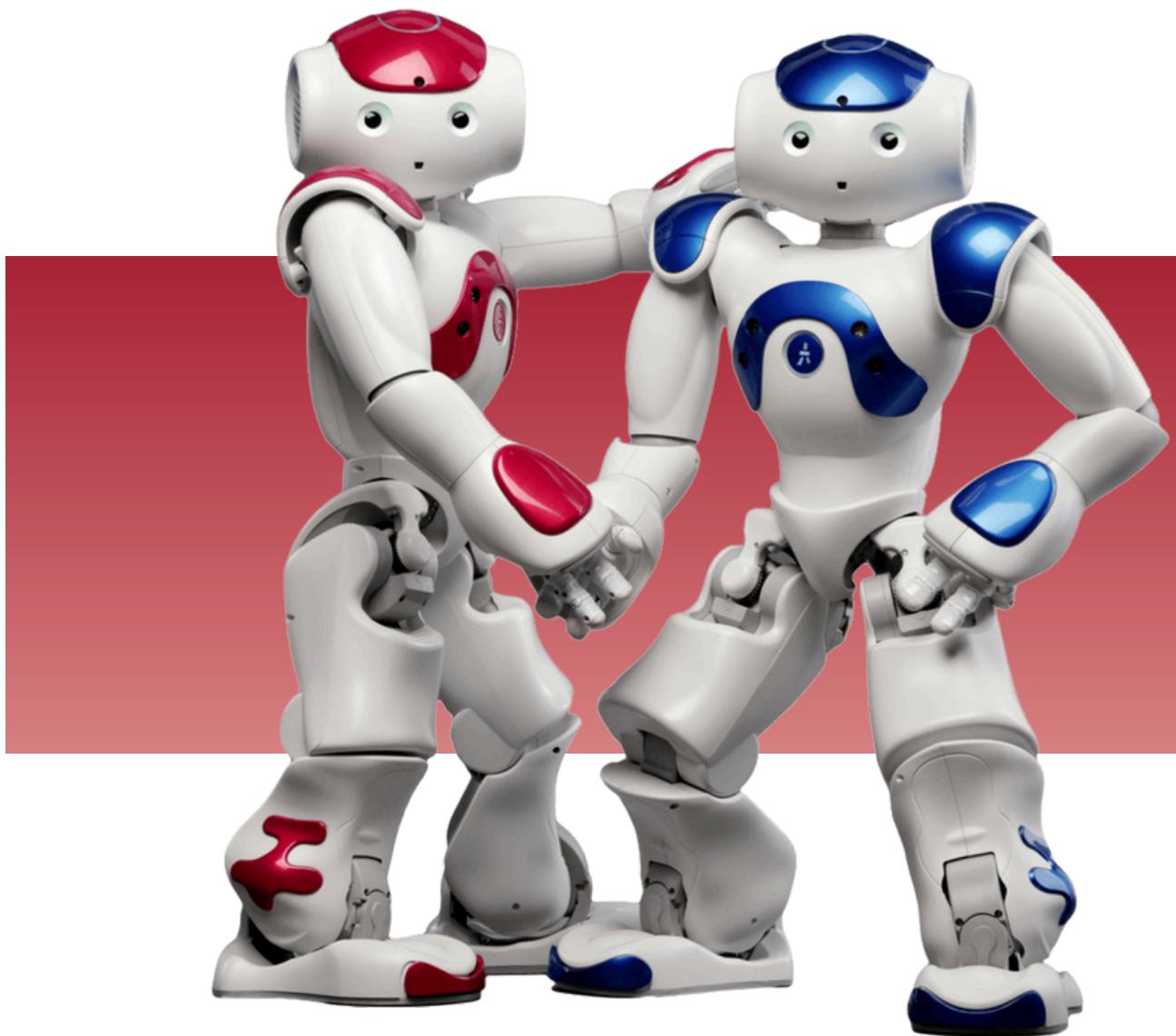
COMPETITION RULES

- Total time of choreography 2 minutes
- Initial state (StandInit)
- Goal (Crouch)
- 6 mandatory positions
- At least 5 intermediate positions selected by the algorithm



IMPLEMENTATION

- Coded in Python
- Search Algorithm: A*, through AIMA Library
- Heuristic function combines three aspects:
Entropy, Remaining Time, Musical Energy
- Check if the preconditions are satisfied
- Avoid repeating moves



Repo: <https://github.com/LorenzoCollivaUnibo/BallaConNao>

**THANKS FOR THE
ATTENTION**

Now BALLA CON NAO!