Choreobot

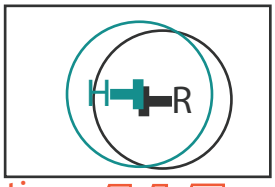
Task is a piece of work consisting of a sequential set of related actions that are executed.

Action is the atomic unit of work, that once started can not be changed. It is done by either the robot or the human, but not both.

Time min - max (if known)

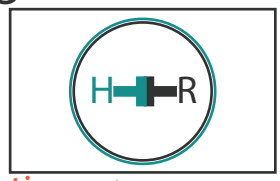
Proximity

Following



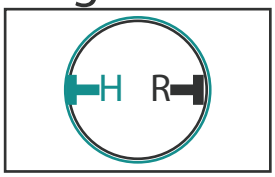
time:

Touching

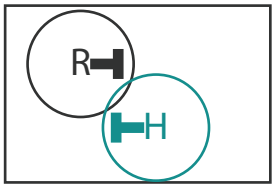


time:

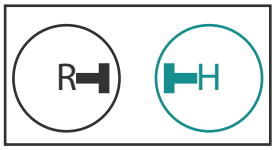
Approaching



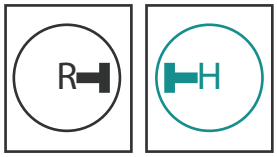
Passing



Avoidance



None



Human Role

Collaborator

Human & Robot share same goal, but dependent on each other. Teammates on the same hierarchical level

Cooperator

Human & Robot share same goal, but not dependent on each other. Task completion from both needed to fulfil shared goal

Operator

Controls the robot

Supervisor

Monitors the robot and gives instructions on how to perform a task

Bystander

Human & Robot do not interact with eachother but share the same space. The aim of the human role is avoidance

Robot Autonomy

Information Acquisition

- ○ Full: all by the robot
- ○ Semi: both by human and robot
- ○ None: all by the human

Information Analysis

- ○ Full: all by the robot
- ○ Semi: both by human and robot
- ○ None: all by the human

Action Selection

- ○ Full: all by the robot
- ○ Semi: both by human and robot
- ○ None: all by the human

Action Execution

- ○ Full: all by the robot
- ○ Semi: both by human and robot
- ○ None: all by the human

Criticality

Loss of essential money
Loss of discretionary money
Loss of comfort
Chance at injury
Chance at critical injury
Loss of life