Robots Arena

This project is provided by:

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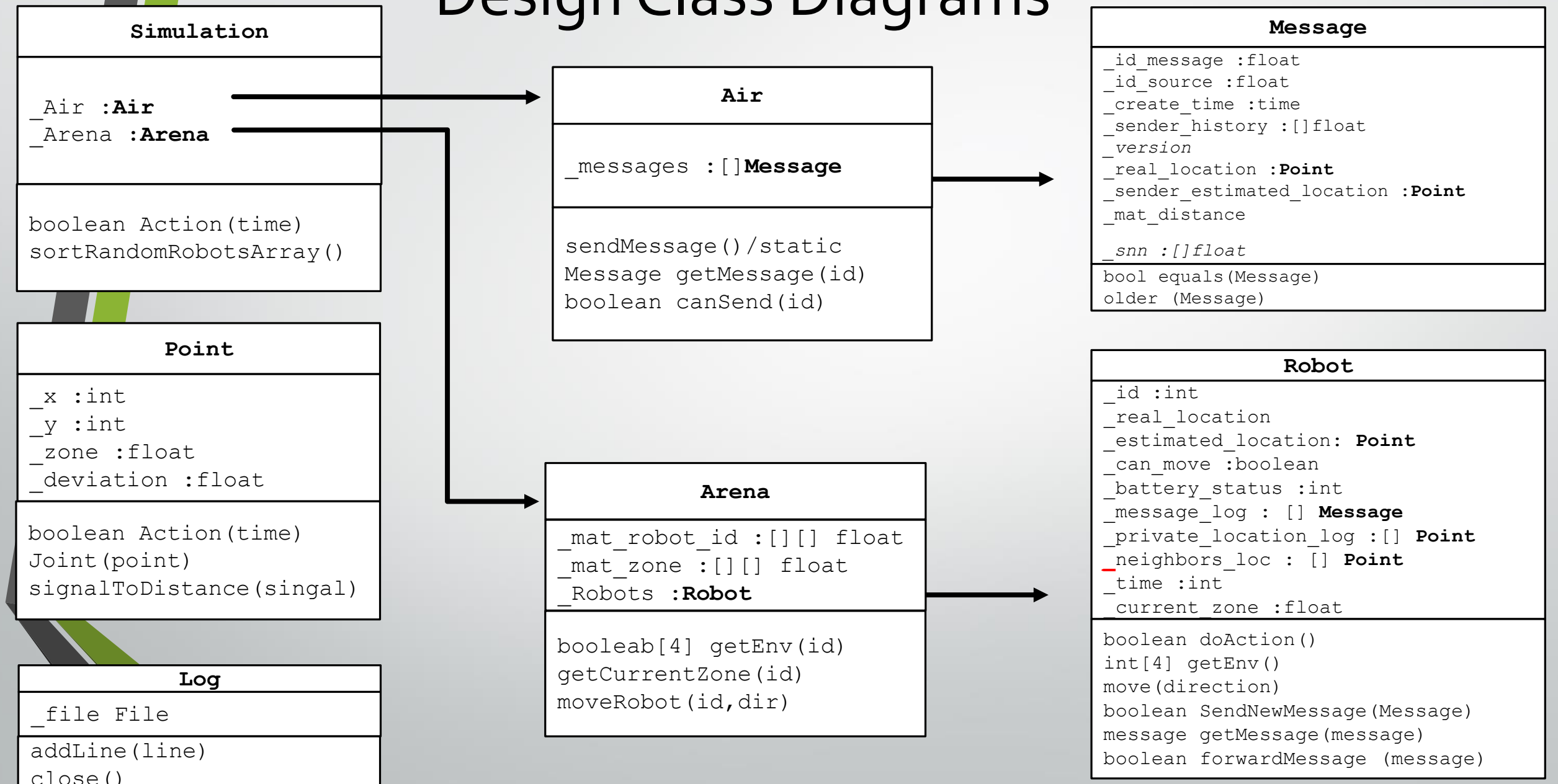
Design Class Diagrams



Use cases

- **Use Case**: Do simulation to the software
- **Actors**: Simulation
- **Purpose**: correct simulation software
- **Description:** Receiving requests from the robot and responding accordingly. While preventing errors.

Use cases

- **Use Case**: Management messages and signals
- **Actors**: Air
- **Purpose**: Distribution of messages correctly
- **Description:** Storing messages sent by robots, location, responsibility for preventing load, the distribution of posts according to criteria Lrobtim

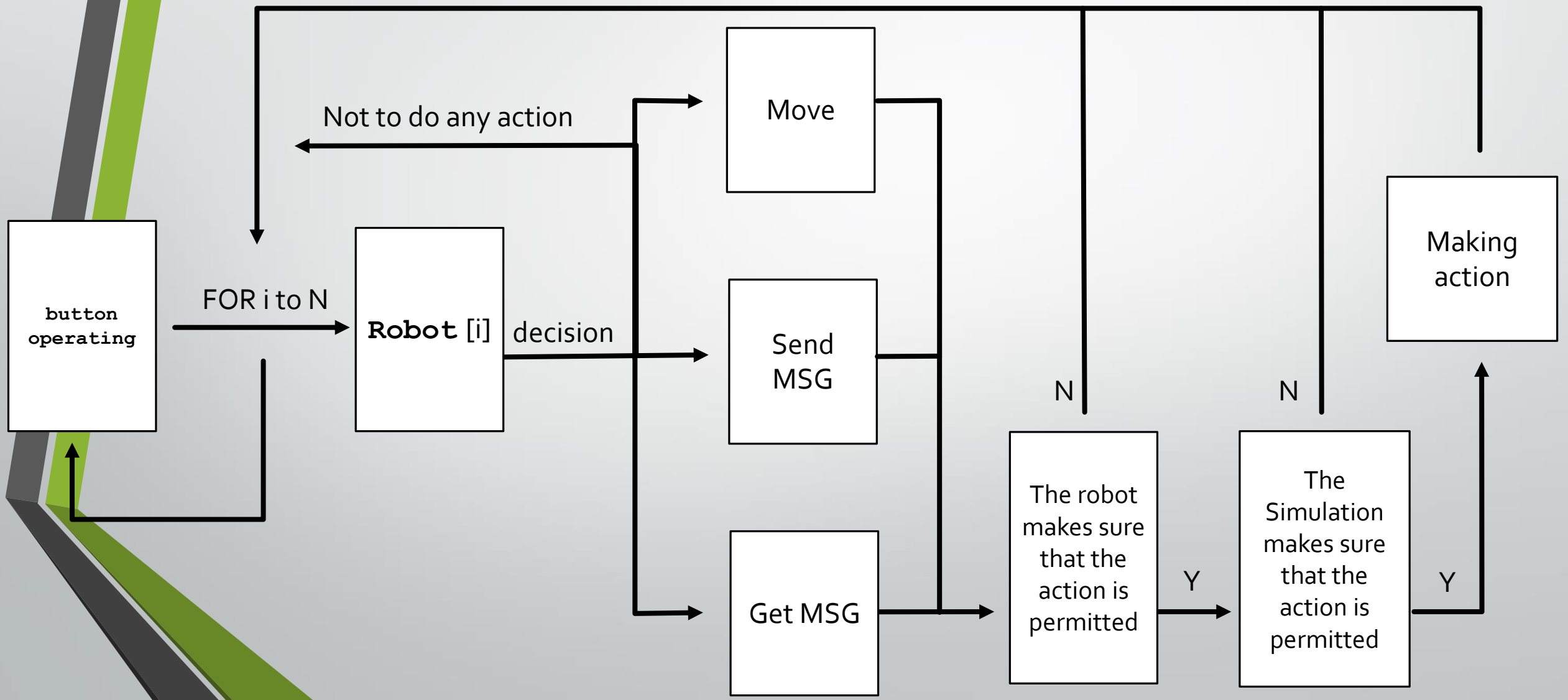
Use cases

- **Use Case**: Data analysis decision to the next step
- **Actors**: Robot
- **Purpose**: Survival robot performing the required actions, and save battery
- **Description:** Robot analyze all the information collected (robots neighbors, the environment and messages) to decide on the next action.

Use cases

- **Use Case**: Analysis info from the messages
- **Actors**: Robot
- **Purpose**: The maximum extraction of information from messages
- **Description:** The robot analyzes the information received from a message (sender's location, intensity, zone, historic neighbors) and using the information in relation to appreciate the estimated_location and the distance to send any neighbors

Conceptual Model



Collaboration Diagrams