

Modeling and Simulation in Robotics Workshop

Breakout Summary Slides

Team 2

Breakout 3

- How do you establish meaningful benchmarks, fidelity?
 - Manipulation settings
 - Physical and simulation testbeds
- Fitting simulators to match benchmark problems
 - Rigid body
 - Need of modeling of touch sensors etc.
- High school competitions
 - Benchmarking Combination of tasks
 - DARPA challenge from point A to B (not switching lanes)
- Community engagement
 - Simulation grand summit (W/ standard test cases)
 - Ask for top 5-10 cool environments (tasks and settings)
 - Who would do this funding ? DoD ? NIST? Others?
- Create standardized system to include simulator as a component
 - e.g manipulation planning (centralized testbed)
 - How good is controller vs simulator (task too simple vs complex) (open loop validation)
 - Qualitative benchmark
- Composability (where does it break down?) E.g. compliance
 - Change in model = simulation is useless