

Modeling and Simulation in Robotics Workshop

Breakout Summary Slides

Team 4

Breakout 4

Slide 1: Consensus Thinking

- Simulation to reason about safety (constrained to important situations) in robotics systems
- To discover new behaviors to do tasks never known to be possible
- For democratization of design of robotic systems
- To provide proper approximations and guidance for developing abstractions
- For supporting co-design of robotic systems
- To generate training data for machine learning
- To benchmark and validate learning – and testing generalization of learned models
- For cheap(er) data generation

Slide 2: “Somewhat contentious” Ideas

- Enter your handful of thoughts here

Slide 3: Odds and ends, out there thoughts, fun stuff

- Enter your handful of thoughts here

Cheat Sheet Slide

- Breakout Themes, “M&S in Robotics” workshop:
 - Breakout 1: Panoramic view of opportunities
[a time to dream]
 - Breakout 2: What’s stopping us from getting there
[the reality check]
 - Breakout 3: Pragmatic suggestions for moving forward
[what funding organizations, the robotics community,
or other vested parties can/should do]

- Breakout session, things to keep in mind
 - You have 25 mins to generate your three slides
 - Select a scribe to generate your three slides
 - Decide who will present your slides in plenary
 - Do not argue within team for more than 2 mins about an idea. Move it to “Slide 2” and proceed
 - Generate diverse/original/out-there ideas
- Plenary session, things to keep in mind
 - Each team has 5 mins to present its slides
 - We seek to collect as many original ideas/points of view/opinions as possible
 - Settling contentious issues not a priority
 - Use open-floor discussion to add to what the teams have presented
 - Limit your remarks to one to two minutes. Give others an opportunity to speak. Keep it fun, keep it friendly