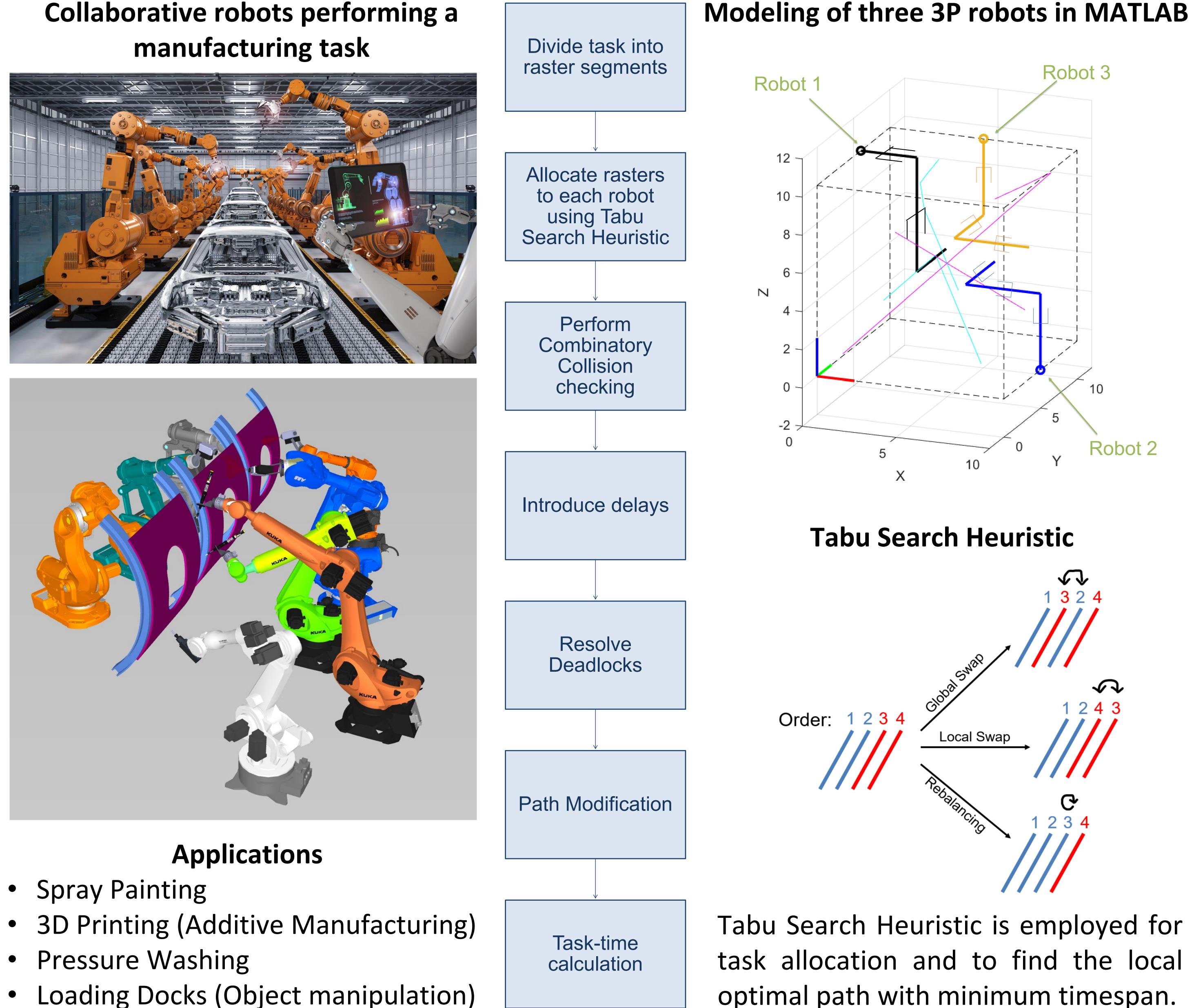
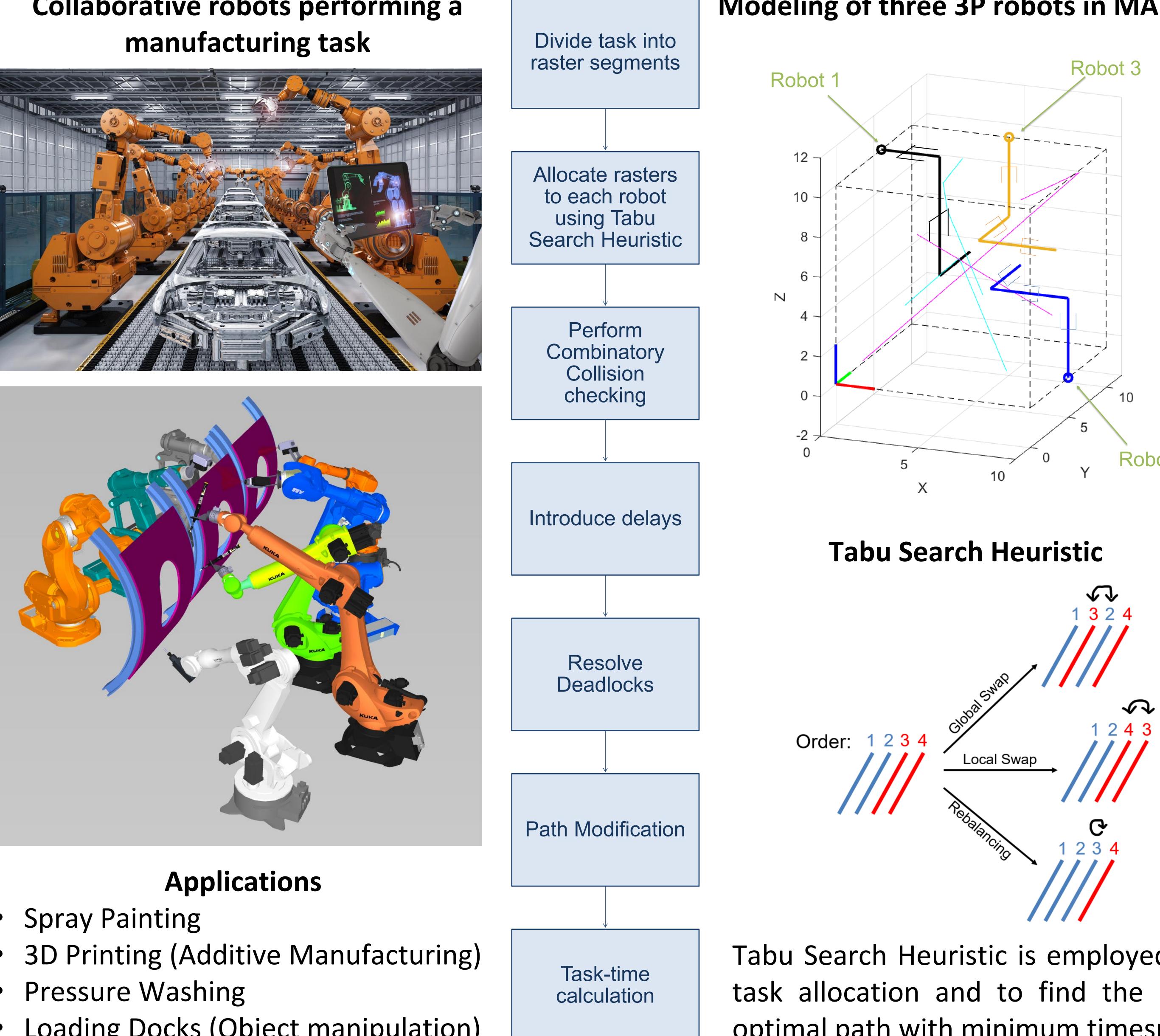




Collaborative robots performing a manufacturing task





- Spray Painting

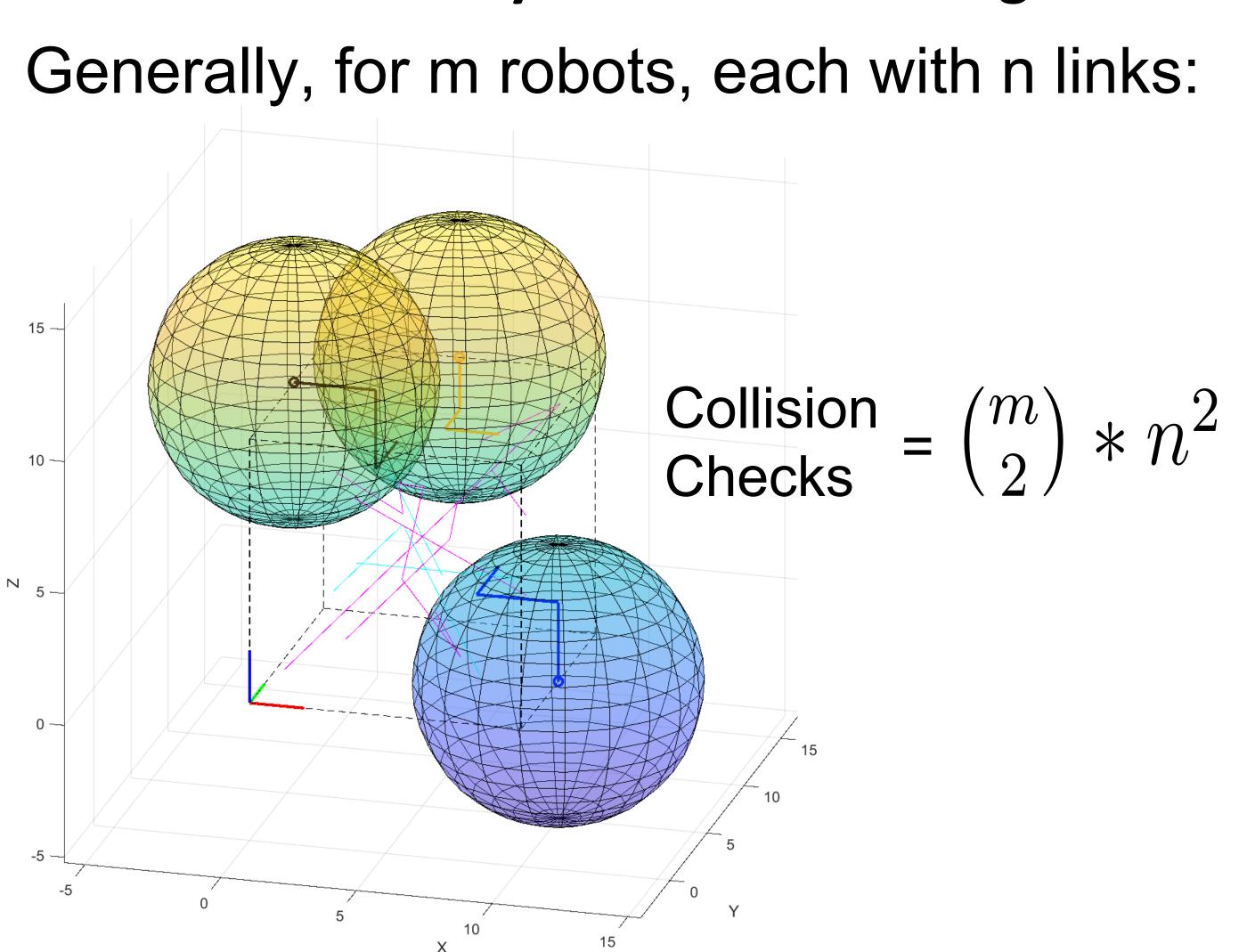
- Loading Docks (Object manipulation)

Task Allocation and Dead-Lock-Free Trajectory Planning for Collaborative Multi-Robot System

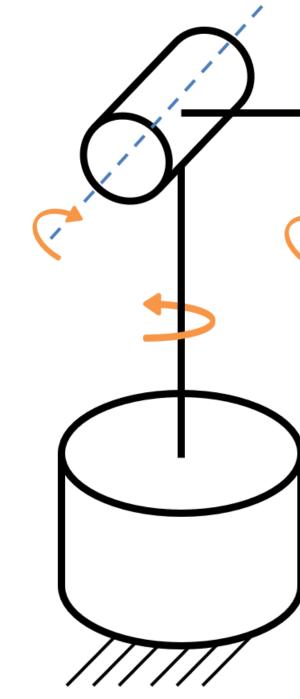
Mohammad Zainullah Khan Advisors: Andrew Murray, Ph.D & David Myszka, Ph.D Department of Mechanical & Aerospace Engineering

Research Objective: To develop offline-coordination planning techniques for multi-robot systems with partially shared workspaces that enables them to allocate and perform manufacturing tasks in a time-effective and computationally efficient manner.

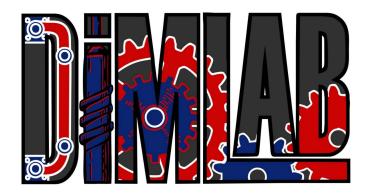
Robot 2



The coordination planning techniques now need to be implemented on a 5/6 DOF multimanufacturing robot systems for environment.



Reference:



Combinatory Collision Checking

Future Work

