

## Mission Planning

### Tasks and Actions Plans

*symbol level*



## Motion Planning

### Problem

### Path Planning

### Trajectory Planning

*Models of  
robot and  
workspace*

*Path*

*"geometric" level*

*Trajectory*

*Open-loop control?*



## Robot Control

### Sensing and Acting

*feedback control  
controller – drives (motors) – sensors*

*Sources of uncertainties  
because of real environment*

*"physical" level*