

Step 1: build directed graph model

- Connected relationships
- Batteries performance parameters

Step 3: search shortest path

- $\omega(p) = N_s \cdot n_b(p) + n_s(p)$
- Dijkstra algorithm

Step 2: obtain constraints and objective function

$$\begin{aligned} \max \quad & \eta(\mathbf{X}_s) \\ \text{s.t.} \quad & \max(\mathbf{I}_b) \leq I_m, \end{aligned}$$

Step 4: solve MAC greedily

- Switches state \mathbf{X}_s
- MAC η