

**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  $\eta$