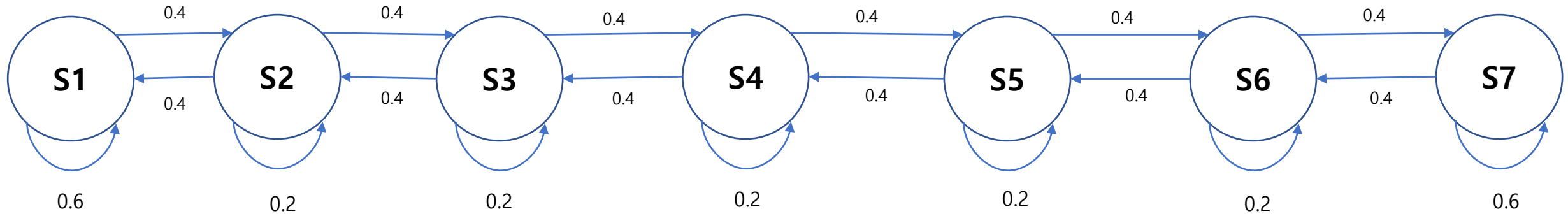


Mars rover Markov chain

1. Diagram
2. Matrix
3. Observation

1. Diagram



2. Matrix

| | S1 | S2 | S3 | S4 | S5 | S6 | S7 |
|----|-----|-----|-----|-----|-----|-----|-----|
| S1 | 0.6 | 0.4 | 0 | 0 | 0 | 0 | 0 |
| S2 | 0.4 | 0.2 | 0.4 | 0 | 0 | 0 | 0 |
| S3 | 0 | 0.4 | 0.2 | 0.4 | 0 | 0 | 0 |
| S4 | 0 | 0 | 0.4 | 0.2 | 0.4 | 0 | 0 |
| S5 | 0 | 0 | 0 | 0.4 | 0.2 | 0.4 | 0 |
| S6 | 0 | 0 | 0 | 0 | 0.4 | 0.2 | 0.4 |
| S7 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0.6 |

3. Observation

1.Recurrent

-> nothing

2.Transient

-> yes, all sections are transient

3.Absorbing

-> nothing