



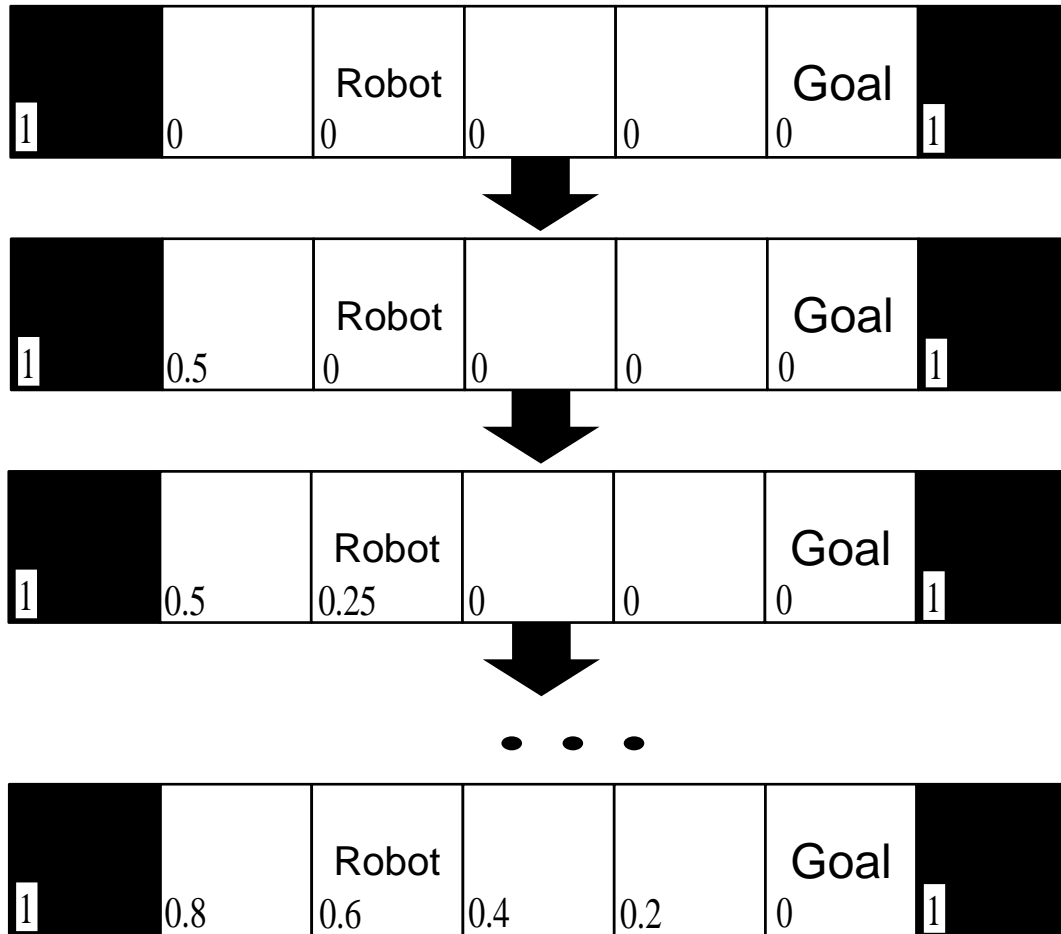
Motion Planning | Potential Field Exercise

Autonomous Mobile Robots

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Worked Exercise | harmonic potential fields



$$U^{k+1}(\mathbf{q}) = \frac{1}{2n} \sum_{i=1}^n \left(U^k(\mathbf{q} + \delta \mathbf{e}_i) + U^k(\mathbf{q} - \delta \mathbf{e}_i) \right)$$