

Nomenclature			
\mathcal{H}_t	Set of all histories at time t	F_T	Cumulative distribution function of T
\mathcal{M}	Set of machines	h	Network state
\mathcal{N}_m	State space of machine m	H_t	History at time t
\mathcal{U}	Action space	M	Number of machines
$\mathcal{U}(h)$	State-dependent action set	m	Machine index
\mathcal{X}_m	Observation space of machine m	o	Network observation
Ω	Observation space	t	Time step
Φ_m	Mapping from \mathcal{H}_t to Ω	T_m^a	Hitting time alert state
ϕ_m	Mapping from \mathcal{N}_m to \mathcal{X}_m	T_m^f	Hitting time failed state
$\pi^{\mathbf{L}}$	Policy under information level \mathbf{L}	$T_m^{i,i+1}$	Transition time r.v. state i to $i + 1$
\mathbf{L}_i	Information level i	x_m^a	Alert state
Θ	Travel time matrix	x_m^f	Failed state
c_m^{CM}	CM cost of machine m	x_m^h	Healthy state
c_m^{DT}	Downtime cost of machine m	$X_m(t)$	Degradation process of machine m
c_m^{PM}	PM cost of machine m		