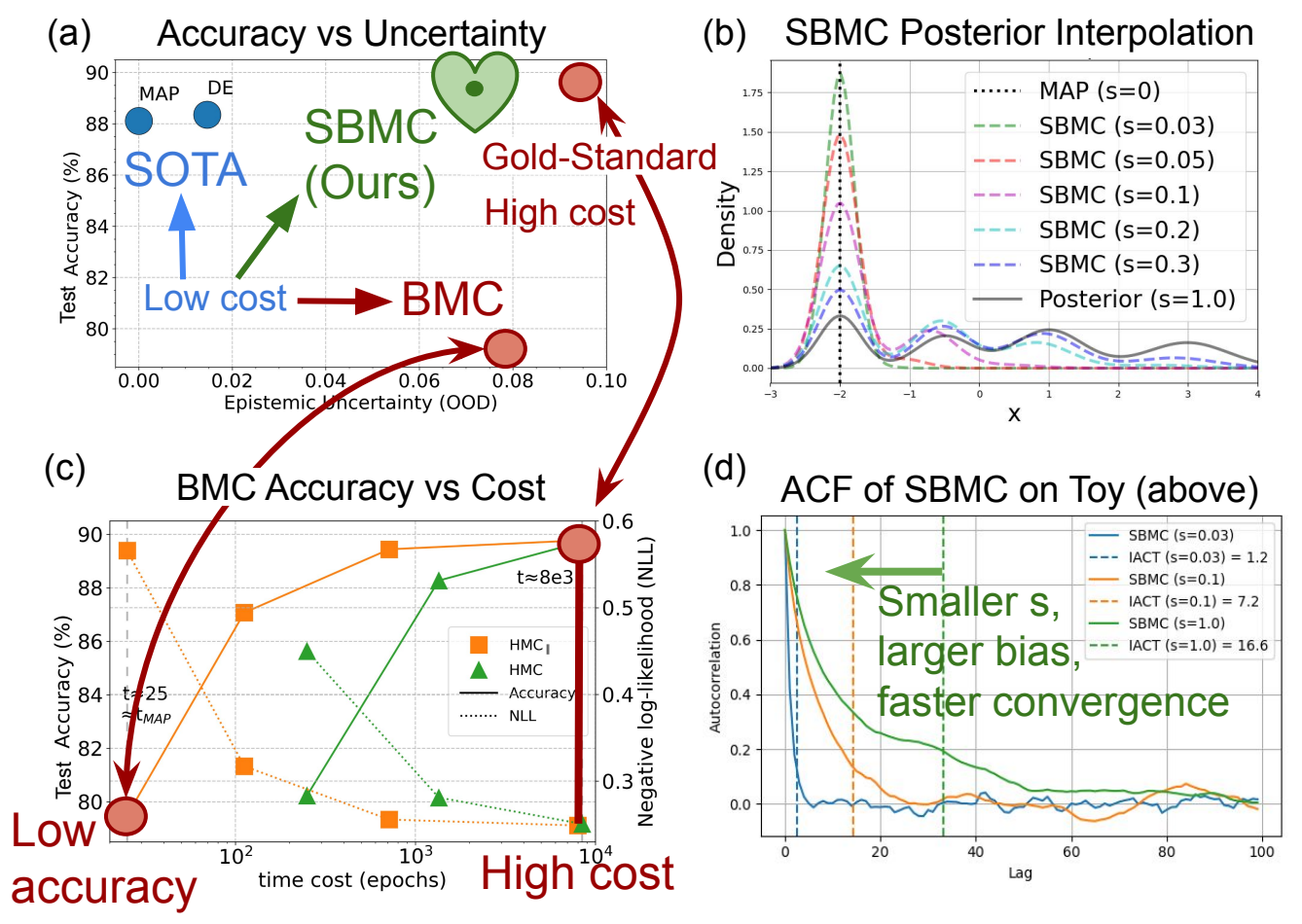
(a)
Accuracy vs Uncertainty
MAP
DE
SOTA
SBMC
(Ours)
Gold-Standard
High cost
Low cost
BMC
Test Accuracy (%)
Epistemic uncertainty (OOD)
(b)
SBMC Posterior Interpolation
MAP (s=0)
SBMC (s=0.03)
SBMC (s=0.05)
SBMC (s=0.1)
SBMC (s=0.2)
SBMC (s=0.3)
Posterior (s=1.0)
Density
x
(c)
BMC Accuracy vs Cost
t≈25
≈t_MAP
t≈8e3
HMC_I
HMC
Accuracy
NLL
Test Accuracy (%)
Negative log-likelihood (NLL)
time cost (epochs)
Low
accuracy
High cost
(d)
ACF of SBMC on Toy (above)
SBMC (s=0.03)
IACT (s=0.03) = 1.2
SBMC (s=0.1)
IACT (s=0.1) = 7.2
SBMC (s=1.0)
IACT (s=1.0) = 16.6
Smaller s,
larger bias,
faster convergence
Autocorrelation
Lag