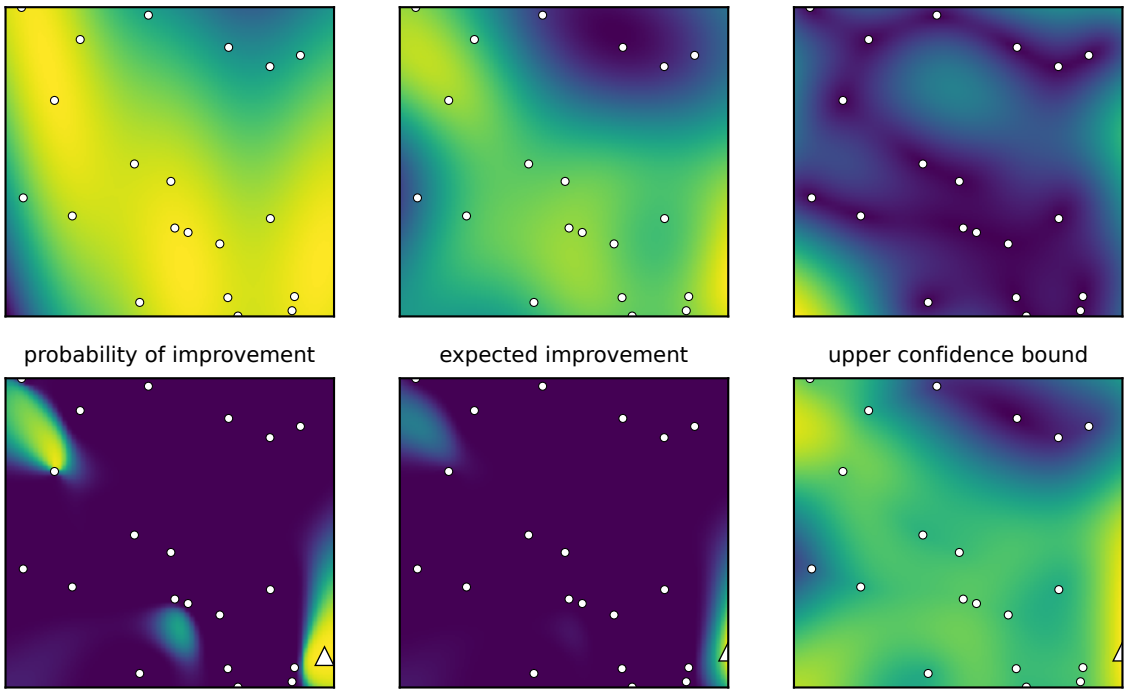

objective $-f$
GP posterior mean
GP posterior sd
probability of improvement
expected improvement
upper confidence bound