

Update
$$E(m{R}) = \hat{S} \sum_{lpha=1}^P rac{eta_lpha}{\sigma_lpha^2} E_lpha(m{R}), \quad f_i^\mu = \hat{S} \sum_{lpha=1}^P rac{eta_lpha}{\sigma_lpha^2} f_{i,lpha}^\mu$$

$$n_P > n_{
m max}$$
 Yes $n_P > m_{
m max}$

No

- Create the (P+1)th local expert
- P = P + 1

Update the inducing set, dataset, and weight vector in accordance with the SGPR technique:

$$egin{aligned} \chi
ightarrow z_P &= \{\chi_j\} \ oldsymbol{R}
ightarrow X_P &= \{oldsymbol{R}_n\} \ oldsymbol{w}^P \end{aligned}$$