**LIST OF RECOMMENDED PROBLEMS**

1.1. General view of estimation problems

1.2. Bayesian Estimation

25 (a-b), 21 (a-c)

1.3. Widely used Bayesian Estimators: MMSE, MAP, MAD.

36; 18(a); 37(a-c); 2(a-d); 31(b-d); 33(c); 32; 13(a,b,d,e); 15(a,c);  11(a,c-e); 19(a,b); 3E1; 41(a-c)

1.4. Maximum Likelihood Estimation

random variable: 13 (c), 15 (b-c), 31 (a), 33(a-b), 11(a,b)

deterministic parameter: 24(a); 26(a); 35(a,b); 29; 3E2; 20; 28; 38(a,b)

1.5. Estimation under Gaussian pdfs.

4Q1, 34 (a-b), 9, 23 (a), 40

1.6. Estimation with constraints. Linear minimum mean square error estimator.

Linear: 1, 16, 27, 6E1, 6E5, 10, 30, 22

Others: 19(c); 25(c); 41(d)

1.8. Regression, machine learning for estimation

6E3, 7, 5, 12, 14