Convergence chart of tested models on Phoneme dataset 0.75 0.70 0.65 0.60 **GBO-ANFIS ARO-ANFIS** 0.55 **RIME-ANFIS QLE-SCA-ANFIS AAEO-ANFIS SMA-ANFIS** 0.50 50 100 150 200 250 300 Epoch