Convergence chart of tested models on Phoneme dataset 0.750 0.725 0.700 0.675 -0.650 **GBO-ANFIS** 0.625 **ARO-ANFIS RIME-ANFIS QLE-SCA-ANFIS** 0.600 **AAEO-ANFIS WOA-ANFIS** 50 100 150 200 250 0 Epoch