Algorithm 1: Adaptive Consensus Selection

Inputs: ActiveUsers, ThroughputTPS, LatencyMS, EnergyNormalized, Thresholds

If LatencyMS > L_thr or EnergyNormalized > E_thr:

   return (DPoS if ActiveUsers >= MediumLoad else PoS)

Else if ActiveUsers < LowLoad: return PoW

Else if ActiveUsers < MediumLoad: return APoW

Else if ActiveUsers < HighLoad: return PoS

Else: return DPoS

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