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On stochastic models of birth and process.

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Our main aim in this paper is to derive Kolmogorov's equations for probabilities applicable to biological problems. The main thrust here is on equilibrium probabilities in birth and death process. Erlang's loss formula to determine performance measures specifically in Queuing theory. We extend its domain to Population genetics. We critically examine here the impact of analytical models of operations under stochastic uncertainty.

Classification: K60 M60

Keywords: Kolmogorov equations; Poisson mean