

Erlang Distributed Activity Times in Stochastic Activity Networks.

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Abstract: It is assumed that activity times in stochastic activity networks (SANs) are independent Erlang random variable (r.v.). A recurrence method of determining the k th moments of the completion time is presented. Applications are provided for illustration and are used to evaluate the applicability and appropriateness of the Erlang model to represent activity network.

Keywords: project planning; PERT; Erlang distribution;

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