

Performance Analysis of Congestion Control Scheme for Mobile Communication Network

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The paper formulated a dynamic channel allocation model with one-level buffering in controlling congestion in Global System for Mobile Communication (GSM) network with a view to prevent call loss or degradation in quality of service of calls. The system model was implemented using object-oriented programming. An algorithm was developed for accepting or rejecting of calls using ticketing scheduling. Various parameters were identified with a mathematical model to support the scheme using Markov chain technique. A simulation program using object-oriented programming approach was developed to evaluate the performance of the scheme based on three performance metrics: resource utilization, average queue length and blocking probabilities.

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