

Modelling Overflow Systems with Thesholds

Mariusz Głabowski, Maciej Stasiak, Damian Kmiecik

| Poznań University of Technology

This article proposes a model of a multiservice overflow system supporting adaptive traffic. A particular attention is given to the method for a determination of the parameters of traffic that overflows to secondary resources. The method takes into consideration both service method for adaptive traffic handling as well as the level of traffic degeneration. The results of the analytical calculations are then compared with the results of the analytical experiments for a number of selected system structures. The results of the study confirm the accuracy of the proposed method and, as a consequence, a possibility of its application in engineering practice.