SIMULATION EXPERIMENTS ON THE SERVICE SYSTEMS USING ARRIVALS AND SERVICES DEPENDING THROUGH COPULAS

Daniel **Ciuiu,** Technical University of Civil Engineering,
Bd. **Lacul** Tei, no, 124. Duolmrost, Romania,
e-mail **dciuiu@yahoo.com**

Abstract

In this paper we will simulate service systems in which the inter-arrival and service times are dependent. We will consider one service station and general arrivals and services. But the service time of a customer depend on the arrival time of a customer that is in the system at the begining of its service. Tlie last customer can be the customer from the station (self-service), the last arriving customer (feedback) or an arbitrary customer from the system (random feedback).

AMS Subject Classification: 6OK26, 90B22
Keywords: Service systems, copulas, simulation.