

**SOLVING NONLINEAR SYSTEMS OF EQUATIONS
AND NONLINEAR SYSTEMS OF DIFFERENTIAL
EQUATIONS BY THE MONTE CARLO METHOD
USING QUEUEING NETWORKS
AND GAMES THEORY**

DANIEL CIUIU*

In this paper we will solve some nonlinear systems of equations and nonlinear systems of differential equations by the Monte Carlo method using queueing networks and some results from games theory.

Keywords: Monte Carlo, queueing networks, symmetric games.

AMS Subject Classification: 60K25, 65C05, 91A05.

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