

Popîrlan Cristina, *Iterative method for large linear systems*

Abstract

Iterative methods are used to solve large linear systems (analyze situations where quantitative data is unknown and qualitative data is known). Projection algorithms are particular cases of iterative methods, so they can be more efficient used to solve systems that require a large amount of calculations. The paper presents a parallel implementation of the modified (CQ) algorithm used to solve large linear systems. Some numerical tests are used to analyze the results improvement obtained with the modified (CQ) algorithm.

Keywords: *iterative methods, projection algorithms, parallel implementation.*

ACM/AMS Classification: 65Y05, 68W10, 68W25.