Acceleration of convergence of static and dynamic iterations

Zdzislaw Jackiewicz jackiewi@math.la.asu.edu Arizona State University, USA

A new technique for acceleration of convergence of static and dynamic iterations for systems of linear equations and systems of linear differential equations is proposed. This technique is based on splitting the matrix of the system in such a way that the resulting iteration matrix has a minimal spectral radius for linear systems and a minimal spectral radius for some value of a parameter in Laplace transform domain for linear differential systems.