آگهی سخنرانی

A new framework for numerical analysis of nonlinear systems:

The significance of the Stahl's theory and analytic continuation via Pade approximants

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چکیده

An appropriate embedding of polynomial systems of equations in a Riemann surface such as $\overline{\mathbb{C}}$ renders the variables as functions of a single complex variable. The recent developments in the approximation theory provides a set of powerful tools to solve and analyze this class of problems. The underlying concepts, namely the algebraic curves and the Stahl's theory are presented along with a critical application in the voltage collapse study of the electricity grid. Those interested in numerical analysis, complex analysis and algebraic geometry are particularly encouraged to attend.

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