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Amit Bhaya* (amit@nacad.ufrj.br), PEE/COPPE/UFRJ, PO Box 68504, Rio de Janeiro, RJ 21945-970. *Control Perspectives on Numerical Algorithms*.

This talk organizes the analysis and design of iterative numerical methods from a control perspective, by looking at algorithms as feedback controllers of a problem-defined plant. This allows for a unified perspective on iterative methods for linear systems as well as for zero finding problems, in addition to opening up the possibility of new iterative methods, some of which will be discussed. (Received March 05, 2008)