Finding Multiple Roots of Nonlinear Equations Simultaneously Using Evolutionary Algorithms

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ABSTRACT

Solving nonlinear equations is important in various fields. Nonlinear equations often contain many different roots. It is vital to find multiple different roots of nonlinear equations in many applications. I will present our recent work on finding multiple roots of nonlinear equations using evolutionary algorithms, and then discuss some future research directions.

BIOGRAPHY

Prof. Gong received the B.Eng., M.Eng., and Ph.D. degrees in computer science from China University of Geosciences, Wuhan, China, in 2004, 2007, and 2010, respectively. He is currently a Professor with School of Computer Science, China University of Geosciences, Wuhan, China. His research interests include evolutionary algorithms, evolutionary optimization, and their applications. He has published over 100 research papers in journals and international conferences. He served as a referee for over 30 international journals, such as IEEE Transactions on Evolutionary Computation, IEEE Transactions on Cybernetics, IEEE Transactions on Systems, Man, and Cybernetics: Systems, IEEE Computational Intelligence Magazine, ACM Transactions on Intelligent Systems and Technology, Information Sciences, etc.

All are welcome!

In case of questions, please contact Professor Qingfu Zhang at qingfu.zhang@cityu.edu.hk, or visit the CS Departmental Seminar Web at https://www.cs.cityu.edu.hk/events/cs-seminars/recent-cs-colloquiums.