Hindawi Publishing Corporation
Fixed Point Theory and Applications
Volume 2007, Article ID 97986, 2 pages
doi:10.1155/2007/97986

Erratum

Mann Iteration Converges Faster than Ishikawa Iteration for the Class of Zamfirescu Operators

G. V. R. Babu and K. N. V. V. Vara Prasad

Received 24 July 2006; Revised 21 September 2006; Accepted 23 October 2006

The aim of this erratum is to make necessary corrections in the proof of Theorem 2.1 of Babu and Prasad (2006).

Copyright © 2007 G. V. R. Babu and K. N. V. V. Vara Prasad. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

The paper by Babu and Prasad [1] contains some mistakes in the proof of Theorem 2.1. In this erratum, we make the necessary corrections.

We follow the same notation as in [1].

In the statement of Theorem 2.1, we assume that $x_0 = y_0 \in K$.

Beginning with (2.1) and applying the technique as in the proof of Theorem 2.1 in [1], we can show that

$$||x_{n+1} - p|| \leq a_n ||x_0 - p||, \tag{1}$$

where $a_n = \prod_{k=0}^{n} [1 - \alpha_k(1-\delta)]$, $n = 0, 1, 2, \ldots$; and also we can show that

$$||y_{n+1} - p|| \leq b_n ||y_0 - p||, \tag{2}$$

where $b_n = \prod_{k=0}^{n} [1 - \alpha_k(1-\delta)^2]$, $n = 0, 1, 2, \ldots$.

We observe that

$$\frac{1 - \alpha_k(1-\delta)}{1 - \alpha_k(1-\delta)^2} \leq 1 - \alpha_k\delta(1-\delta), \quad k = 0, 1, 2, \ldots, \tag{3}$$

so that

$$\frac{a_n}{b_n} \leq \prod_{k=0}^{n} [1 - \alpha_k \delta(1-\delta)], \quad n = 0, 1, 2, \ldots. \tag{4}$$

Thus, $\lim_{n\to\infty} (a_n/b_n) = 0$.

Note that $a_n \to 0$ and $b_n \to 0$ as $n \to \infty$.

Acknowledgments

The authors are grateful to Professor Xue Zhiqun, for bringing out to the notice of the mistakes in the paper. This work is partially supported by U. G. C. Major Research Project Grant no. F. 8-8/2003 (SR). One of the authors (G. V. R. Babu) thanks the University Grants Commission, India, for the financial support.

References

[1] G. V. R. Babu and K. N. V. V. Vara Prasad, "Mann iteration converges faster than Ishikawa iteration for the class of Zamfirescu operators," *Fixed Point Theory and Applications*, vol. 2006, Article ID 49615, 6 pages, 2006.

G. V. R. Babu: Department of Mathematics, Andhra University, Visakhapatnam 530 003, India
Email address: gvr_babu@hotmail.com

K. N. V. V. Vara Prasad: Department of Mathematics, Dr. L. Bullayya College,
Visakhapatnam 530 013, India
Email address: knvp71@yahoo.co.in

Journal of Applied Mathematics and Decision Sciences

Special Issue on
Intelligent Computational Methods for Financial Engineering

Call for Papers

As a multidisciplinary field, financial engineering is becoming increasingly important in today's economic and financial world, especially in areas such as portfolio management, asset valuation and prediction, fraud detection, and credit risk management. For example, in a credit risk context, the recently approved Basel II guidelines advise financial institutions to build comprehensible credit risk models in order to optimize their capital allocation policy. Computational methods are being intensively studied and applied to improve the quality of the financial decisions that need to be made. Until now, computational methods and models are central to the analysis of economic and financial decisions.

However, more and more researchers have found that the financial environment is not ruled by mathematical distributions or statistical models. In such situations, some attempts have also been made to develop financial engineering models using intelligent computing approaches. For example, an artificial neural network (ANN) is a nonparametric estimation technique which does not make any distributional assumptions regarding the underlying asset. Instead, ANN approach develops a model using sets of unknown parameters and lets the optimization routine seek the best fitting parameters to obtain the desired results. The main aim of this special issue is not to merely illustrate the superior performance of a new intelligent computational method, but also to demonstrate how it can be used effectively in a financial engineering environment to improve and facilitate financial decision making. In this sense, the submissions should especially address how the results of estimated computational models (e.g., ANN, support vector machines, evolutionary algorithm, and fuzzy models) can be used to develop intelligent, easy-to-use, and/or comprehensible computational systems (e.g., decision support systems, agent-based system, and web-based systems)

This special issue will include (but not be limited to) the following topics:

- **Computational methods**: artificial intelligence, neural networks, evolutionary algorithms, fuzzy inference, hybrid learning, ensemble learning, cooperative learning, multiagent learning
- **Application fields**: asset valuation and prediction, asset allocation and portfolio selection, bankruptcy prediction, fraud detection, credit risk management
- **Implementation aspects**: decision support systems, expert systems, information systems, intelligent agents, web service, monitoring, deployment, implementation

Authors should follow the Journal of Applied Mathematics and Decision Sciences manuscript format described at the journal site http://www.hindawi.com/journals/jamds/. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at http://mts.hindawi.com/, according to the following timetable:

Manuscript Due	December 1, 2008
First Round of Reviews	March 1, 2009
Publication Date	June 1, 2009

Guest Editors

Lean Yu, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing 100190, China; Department of Management Sciences, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong; yulean@amss.ac.cn

Shouyang Wang, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing 100190, China; sywang@amss.ac.cn

K. K. Lai, Department of Management Sciences, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong; mskklai@cityu.edu.hk