

EDITORIAL

The problems of modern society are usually complex and their solutions are normally achieved following interdisciplinary approach. Due to the parallelism that exists in real world problems, it becomes apparent that tools and techniques developed in one context are often found applications in a variety of different situations. In particular, techniques developed for classical problems in Physical Sciences have been found extremely useful in the study of Biological, Behavioural, and Life Sciences, Psychology, Economics, and Finance. Mathematics is amazingly effective in resolving seemingly intractable problems. Essentially, the process proceeds in the following steps: model the real world problem as a mathematical problem, solve the resulting mathematical problem and interpret the results. A mathematician in government or industry will be involved in all these steps.

Modern epistemological expansionism lies in the exploration of the nonlinear phenomena. The study and mathematical analysis of nonlinear systems has rendered unification of problems in diverse fields. It is our strong belief that this type of interdisciplinary work will not only be stimulating but also opens up many more new vistas for interdisciplinary scientists, offering exciting prospects.

Among others, dynamical systems enable us to reconstruct the past and predict the future events. They are highly effective in their power to model the world around us. It is with this spirit, we see the importance of this journal, Differential Equations and Dynamical Systems (DEDS, for short), which has been in vogue since 1993. Volumes 1-15 have been published by Research Square Publications. During these 15 years DEDS

has brought out issues on special topics such as Neural Networks and Neurocomputing - Theory, Models, and Applications, Parts I - IV, and has published proceedings of international conferences and workshops as well.

Starting from Vol.16, 2008 this journal is published by the “ Foundation for Scientific Research and Technological Innovation (FSTRI)” – a division of Sri Vadrevu Seshagiri Rao Memorial Charitable Trust, Hyderabad, India and is copublished by Springer India. DEDS has on its editorial board very eminent mathematicians and scientists and their untiring efforts have been vital for its growth and success. We truly hope that with the copublication support of Springer India, DEDS will scale further heights in quality and will continue serving as a forum for an exchange of valuable ideas that will stimulate significant contributions in new fields and promote the most quintessential aspects of the theory and applications of differential equations and dynamical systems.

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V. Sree Hari Rao and Xingfu Zou