Preface: Nonautonomous hyperbolicity and related areas. (English) Zbl 1365.00039

From the text: The notion of hyperbolicity is a central and well-established concept in the area of dynamical systems, both in bifurcation and chaos theory. However, recent decades saw an increasing interest in models subject to temporally fluctuating perturbations and thus the field of nonautonomous dynamical systems. Here, various notions of hyperbolicity (or exponential dichotomy) are in use covering aspects such as different spectra (Sacker-Sell, Morse, Lyapunov, exponential and integral separation, etc.), finite time dynamics, and diverse approaches to nonautonomous bifurcation. Even in autonomous problems such time-dependent problems also arise when linearizing along nonconstant solutions. In this special issue we collect contributions on this topic.

MSC:
00B15 Collections of articles of miscellaneous specific interest
34-06 Proceedings, conferences, collections, etc. pertaining to ordinary differential equations
37-06 Proceedings, conferences, collections, etc. pertaining to dynamical systems and ergodic theory

Full Text: DOI