

Yingcui Zhao, Lidong Wang\*, and Nan Wang

# Li-Yorke chaos for maps on $G$ -Spaces

**Abstract:** We introduce the definition of Li-Yorke chaos for the map  $f$  on  $G$ -spaces, and show  $G$ -Li-Yorke chaos is iterable for  $f$ . Li-Yorke chaos implies  $G$ -Li-Yorke chaos, while the converse is not true. Then we give a sufficient condition for  $f$  to be chaotic in the sense of  $G$ -Li-Yorke. Also, we prove if  $f$  is  $G$ -transitive and there exists a common fixed point for  $f$  and all the maps in  $G$ , then  $f$  is chaotic in the sense of  $G$ -Li-Yorke.

**Keywords:**  $G$ -spaces,  $G$ -Li-Yorke chaos,  $G$ -transitivity, fixed point, periodic point

## 1 Introduction

Chaos comes from practical problems such as physics, biology, economics, medicine and chemistry. The theory of chaotic dynamical system is one of the challenging issue of dynamical systems. By convention, “chaos” means “a state of confusion without order”. While in the theory of chaotic dynamical systems, “chaos” is a technical term. The term “chaos” in discrete dynamical systems was introduced firstly by Li and Yorke in 1973 [1].

Let  $X$  be a metric  $G$ -space and  $f: X \rightarrow X$  be a continuous map.  $Y \subset X$  is said to be a Li-Yorke chaotic set of  $f$ , if it contains at least two points and any pair of distinct points  $x, y \in Y$  is a Li-Yorke pair, i. e.,

$$\liminf_{n \rightarrow \infty} d(f^n(x), f^n(y)) = 0, \quad \limsup_{n \rightarrow \infty} d(f^n(x), f^n(y)) > 0.$$

Moreover, if there exists an uncountable Li-Yorke chaotic set  $S \subset X$  of  $f$ ,  $f$  is said to be chaotic in the sense of Li-Yorke.

In the last fifty years, a large number of papers have been devoted to the study of chaos in the sense of Li and Yorke. Xiong[2] showed if  $f$  is transitive and there exists a fixed point for  $f$ , then  $f$  is chaotic in the sense of Li-Yorke. Wang[6] gave a sufficient condition for  $f$  to be chaotic in the strong sense of Li-Yorke. Seeing [7, 8, 9, 10] for more results about Li-Yorke chaos.

In addition to the topology domain, chaos theory is also being researched in other settings. Recently, chaos is being defined and studied for group actions, set-valued maps, iterated function system and so on. The present paper focuses on  $G$ -space.

Ekta studied Devaney’s chaos for maps on  $G$ -space in [11]. Ali and Ekta defined and studied the notion of chain transitivity for maps on  $G$ -spaces in [12]. Phansu and Khundrakpam investigated the  $G$ -mixing,  $G$ -sensitive and  $G$ -shadowing property of  $f$  in [13]. Ji Zhanjiang introduced the concepts of  $G$ -chain mixing,  $G$ -mixing, and  $G$ -chain transitivity in metric  $G$ -space, and then researched them in [14]. Raad and Ittihash studied the sequence  $G$ -asymptotic average shadowing property with  $G$ -chain transitive in [15].

The aim of present paper is to define and study Li-Yorke chaos for maps on  $G$ -spaces. The specific layout of the present paper is as follows. Some preliminaries and definitions are introduced in the next section. Then we will give some propositions in Sec. 3. In the last section, the main conclusions are given.

## 2 Preliminaries and Basic Concepts

Throughout this paper,  $\mathbb{N} = \{0, 1, 2, \dots\}$ ,  $\mathbb{Z}^+ = \{1, 2, 3, \dots\}$  and  $\mathbb{Z} = \{\dots, -2, -1, 0, 1, 2, \dots\}$ . Let  $(X, d)$  be a metric  $G$ -space,  $G$  be a topological group and  $\varphi$  be a continuous map from  $G \times X$  to  $X$ [4]. The  $(X, G, \varphi)$  or  $X$  is called to be a metric  $G$ -space if the following conditions are satisfied:

- (1)  $\varphi(e, x) = x$  for all  $x \in X$  where  $e$  is the identity of  $G$ ;
- (2)  $\varphi(g_1 \cdot \varphi(g_2, x)) = \varphi(g_1 g_2, x)$  for all  $x \in X$  and all  $g_1, g_2 \in G$ .



## **Yorke Chaos Solution Manual:**

**Nonlinear Dynamics and Chaos with Student Solutions Manual** Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject. The presentation stresses analytical methods concrete examples and geometric intuition. The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors. *Laws of Chaos* Abraham Boyarsky, Paweł Gora, 2012-12-06 A hundred years ago it became known that deterministic systems can exhibit very complex behavior. By proving that ordinary differential equations can exhibit strange behavior Poincaré undermined the foundations of Newtonian physics and opened a window to the modern theory of nonlinear dynamics and chaos. Although in the 1930s and 1940s strange behavior was observed in many physical systems the notion that this phenomenon was inherent in deterministic systems was never suggested. Even with the powerful results of S. Smale in the 1960s complicated behavior of deterministic systems remained no more than a mathematical curiosity. Not until the late 1970s with the advent of fast and cheap computers was it recognized that chaotic behavior was prevalent in almost all domains of science and technology. Smale horseshoes began appearing in many scientific fields. In 1971 the phrase strange attractor was coined to describe complicated long term behavior of deterministic systems and the term quickly became a paradigm of nonlinear dynamics. The tools needed to study chaotic phenomena are entirely different from those used to study periodic or quasi periodic systems these tools are analytic and measure theoretic rather than geometric. For example in throwing a die we can study the limiting behavior of the system by viewing the long term behavior of individual orbits. This would reveal incomprehensibly complex behavior. Or we can shift our perspective. Instead of viewing the long term outcomes themselves we can view the probabilities of these outcomes. This is the measure theoretic approach taken in this book.

**Chaotic Systems with Multistability and Hidden Attractors** Xiong Wang, Nikolay V. Kuznetsov, Guanrong Chen, 2021-12-01 This book presents a collection of new articles written by world leading experts and active researchers to present their recent finding and progress in the new area of chaotic systems and dynamics regarding emerging subjects of unconventional chaotic systems and their complex dynamics. It guide readers directly to the research front of the new scientific studies. This book is unique of its kind in the current literature presenting broad scientific research topics including multistability and hidden attractors in unconventional chaotic systems such as chaotic systems without equilibria with only stable equilibria with a curve or a surface of equilibria. The book describes many novel phenomena observed from chaotic systems such as non Shilnikov type chaos coexistence of different types of attractors and spontaneous symmetry breaking in chaotic systems. The book presents state of the art scientific research progress in the field with both theoretical advances and potential applications. This book is suitable for all researchers and professionals in the areas of nonlinear dynamics and

complex systems including research professionals physicists applied mathematicians computer scientists and in particular graduate students in related fields **Topics in Applied Mechanics** J.F. Dijksman,F.T. Nieuwstadt,2012-12-06 In collaboration with the Contact Group Experimental Mechanics in The Netherlands and under the auspices of the Technological Institute of the Koninklijke Vlaamse Ingenieurs Vereniging Royal Flemish Society of Engineers the Department of Applied Mechanics of the Koninklijk Instituut van Ingenieurs Royal Institution of Engineers in The Netherlands organised the second National Mechanics Congress in The Netherlands on November 16 18 1992 About hundred participants from universities and industrial research laboratories in The Netherlands and Belgium discussed topics around the theme Building Bridges Integration of Theory and Applications in Applied Mechanics Building bridges is of course one of the main tasks of a civil engineer in order to improve the infrastructure of our society Strength stiffness and stability have to be guaranteed for a large number of years of service Localised effects such as shear lag in longitudinal stiffeners small cracks in concrete structures and effects of corrosion may over time lead to catastrophic failure of bridges During the congress J P Gailliez presented a talk about the hydraulic ship lifts in the Canal du Centre in south Belgium Built more than a hundred years ago the elevators still are in a perfect condition and are recognized now as an industrial archaeological monument

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Attractors, Bifurcations, and Chaos Tönu Puu,2000-03-06 Attractors Bifurcations Chaos now in its second edition begins with an introduction to mathematical methods in modern nonlinear dynamics and deals with differential equations Phenomena such as bifurcations and deterministic chaos are given considerable emphasis both in the methodological part and in the second part containing various applications in economics and in regional science Coexistence of attractors and the multiplicity of development paths in nonlinear systems are central topics The applications focus on issues such as business cycles oligopoly interregional trade dynamics and economic development theory

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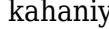
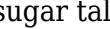
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