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PREFACE

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This two-volume set contains an edited reprint of the following six *tutorial-review* papers on *One-Dimensional Cellular Automata*, published in the *International Journal of Bifurcation and Chaos* in the past five years (2002-2006):

1. Chua, L. O., Yoon, S. & Dogaru, R. [2002] “A nonlinear dynamics perspective of Wolfram’s new kind of science. Part I: Threshold of complexity,” Vol. 12, No. 12, 2655–2766.
2. Chua, L. O., Sbitnev, V. I. & Yoon, S. [2003] “A nonlinear dynamics perspective of Wolfram’s new kind of science. Part II: Universal neuron,” Vol. 13, No. 9, 2377–2491.
3. Chua, L. O., Sbitnev, V. I. & Yoon, S. [2004] “A nonlinear dynamics perspective of Wolfram’s new kind of science. Part III: Predicting the unpredictable,” Vol. 14, No. 11, 3689–3820.
4. Chua, L. O., Sbitnev, V. I. & Yoon, S. [2005] “A nonlinear dynamics perspective of Wolfram’s new kind of science. Part IV: From Bernoulli shift to $1/f$ spectrum,” Vol. 15, No. 4, 1045–1183.
5. Chua, L. O., Sbitnev, V. I. & Yoon, S. [2005] “A nonlinear dynamics perspective of Wolfram’s new kind of science. Part V: Fractals everywhere,” Vol. 15, No. 12, 3701–3849.
6. Chua, L. O., Sbitnev, V. I. & Yoon, S. [2005] “A nonlinear dynamics perspective of Wolfram’s new kind of science. Part VI: From time-reversible attractors to the arrow of time,” Vol. 16, No. 5.

All typographical errors detected so far have been corrected. To avoid redundancy, the references from the papers in each volume are extracted and combined at the end of each volume. Although the pages are renumbered consecutively, all section and equation numbers are kept unchanged since they are occasionally referred to in the text. The readers are reminded therefore that the *chapter number* should be included when identifying a section or equation number referred to in the text.

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