Complex Systems: Errata and Changes, Volume 1

All known errata and changes are given below for articles published in Complex Systems, Volume 1, 1987.


The two columns of figures on page 27 are transposed; they are labelled correctly.

The words “Below we plot” on page 28 refer to the plots on page 27.


The caption for figure 2 should be replaced by the following:

Printout of a hypothetical two-dimensional cellular automaton model for a shape memory alloy, at a temperature producing about one-third of martensite in equilibrium with two thirds of austenite. The pattern resembles some enlarged details of figure 1c where the variants A, B, C, D show up as different gray shades. For better contrast, austenitic cells have been represented by colons rather than by a letter. At high temperature, each martensitic plate must shrink into a single permanent “germ” cell of the respective variant. A realistic model should contain very few germs (i.e. crystal defects) per 1000 cells.

Kristian Lindgren, “Correlations and Random Information in Cellular Automata”, pages 529–543

Equation (2.11) should be

\[ \Delta S_m = S_m - S_{m-1} \]

In section 3, “Algorithmic information theory”, the notation \( h(\alpha_m) \) should be \( h(\alpha_m) \), \( \Delta dH_d \) should be \( \Delta_q H_d \), \( \Delta ts_\mu \) should be \( \Delta_t s_\mu \). In equation (4.1), \( \sum_{\alpha_{m+2r}} \) should be \( \sum_{\alpha_{m+2r}} \).

Equation (4.5) should be

\[ R(\ldots i_r \ldots i_r) = i_r + f(\ldots i_r \ldots i_{r-1}) \mod 2 \]

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The second part of equation (4.7) should be
\[ \sum_{\beta_m} T_R(\alpha_{m+2r}, \beta_m) = 1 \]

The second half of equation (4.14) is missing a right parenthesis before \( p_m(\cdot) \).
In section 4, \( \Delta t\eta(t) \) should be \( \Delta t\eta(t) \).