Naturwissenschaftlich motivierte formale Modelle

Literaturempfehlungen

1. **Allgemeine Grundlagen (mit kurzen Kapiteln zu L-Systemen)**

   - A. Salomaa: *Formal Languages.* Academic Press, New York (1973).
   - A. Salomaa: *Formale Sprachen.* Springer, Berlin (1978).
   - J.E. Hopcroft, J.D. Ullman: *Introduction to Automata Theory, Languages, and Computation.* Addison Wesley (1979). (auch auf deutsch)
   - C. Martín-Vide, V. Mitrana, Gh. Păun: *Formal Languages and Applications.* Studies in Fuzziness and Soft Computing 148, Springer (2004).

2. **Lindenmayer-Systeme**

   - G.T. Herman, G. Rozenberg: *Developmental Systems and Languages.* North-Holland, Amsterdam (1975).
   - P. Prusinkiewicz, A. Lindenmayer: *The Algorithmic Beauty of Plants.* Springer, Berlin (1990).
   - G. Rozenberg, A. Salomaa: *The Mathematical Theory of L Systems.* Academic Press, New York (1980).

3. **Soliton-Automaten**

   - F.L. Carter: Conformational switching at the molecular level. In F.L. Carter (Hrsg.): *Molecular Electronic Devices.* Marcel Dekker, New York (1982), 51–71.
   - J. Dassow, H. Jürgensen: Soliton Automata. *Journal of Computer and System Sciences* 40 (1990), 158–181.

4. **DNA-Computing**

   - L.M. Adleman: Molecular computation of solutions to combinatorial problems. *Science* 226 (1994), 1021–1024.
   - A. Ehrenfeucht, I. Petre, D.M. Prescott, G. Rozenberg: *Universal and Simple Operations for Gene Assembly in Ciliates. Where Mathematics, Computer Science, Linguistics and Biology Meet.* Kluwer Academic Publishers, Norwell, MA (2001).
   - Gh. Păun, G. Rozenberg, A. Salomaa: *DNA Computing.* Springer, Berlin (1998).