

# 11.

## Miscellaneous

(references refer to the list of publications given in chapter 12)

- Pu001:** Radehaus, Waldowski, Kardell, Berkemeier, Wiesemann, Purwins (1985)  
design of a special purpose computer for the fast solution of nonlinear differential equations
- Pu004:** Waldowski, Purwins (1987)  
power increase of computers on the basis of multi processor chips
- Pu014:** Cruse, Bode, Purwins (1991)  
proposition of a new concept for the construction of neuronal networks solving finite classification problems - the concept is based on the iteration of simple construction rules
- Pu019:** Ammelt, Willebrand, Purwins (1992)  
long tube low temperature gas-discharge system: experimental detection of moving striations that are modulated by high amplitude oscillations in time, such that for long exposition time the pattern looks like stationary striations
- Pu031:** Ruwisch, Bode, Purwins (1993)
- Pu034:** Ruwisch, Schütz, Bode, Purwins (1994)
- Pu039:** Ruwisch, Bode, Purwins (1994)  
hardware realization of Kohonen's algorithm by using wave propagation on an electrical network of reaction-diffusion type
- Pu116:** Gurevich, Amiranashvili, Purwins (2005)  
repetition of the gas-discharge experiments of S. Nasuno, Chaos 13, pp. 1010 to 1013 (2003) with two plane parallel metal electrodes separated by a gas layer - it is demonstrated that only a single LS can exist at a time, the observation of more than one LS is due to the integration of the luminescence radiation over different LSs appearing in non-overlapping time intervals