

DISTRIBUTIONAL CHAOS

Jaroslav Smítal

Mathematics Institute

Silesian University

CZ-746 01 Opava, Czech Republic

jaroslav.smital@math.slu.cz

<http://www.slu.cz/math/cz/lide/smital-jaroslav>

Since 1994 when the notion was introduced for continuous maps of the interval, the theory of distributional chaos became a large area of the theory of dynamical systems. The notion was generalized to be applicable to continuous maps of a compact metric space and many nice and deep results were obtained by many mathematicians.

In the talk we will present the genesis of the notion, brief history and current state of the theory and point out important but difficult open problems, and possible directions of further research.