

Petitot, Jean
In collaboration with René Doursat

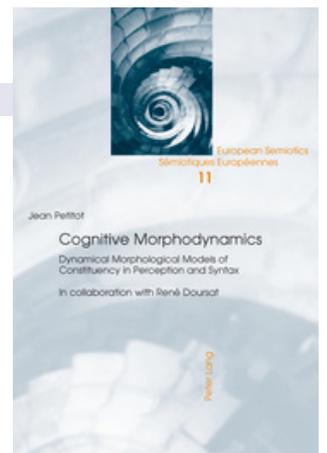
Cognitive Morphodynamics

Dynamical Morphological Models of Constituency in Perception and Syntax

Bern, Berlin, Bruxelles, Frankfurt am Main, New York, Oxford, Wien, 2011. 306 pp., num. tables and graphs
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Über das Buch

This book - written in collaboration with René Doursat, director of the Complex Systems Institute, Paris - adds a new dimension to Cognitive Grammars. It provides a rigorous, operational mathematical foundation, which draws from topology, geometry and dynamical systems to model iconic «image-schemas» and «conceptual archetypes». It defends the thesis that René Thom's *morphodynamics* is especially well suited to the task and allows to transform the morphological structures of perception into Gestalt-like, abstract, proto-linguistic schemas that can act as inputs into higher-level specific linguistic routines.

Cognitive Grammars have drawn upon the view that the deep syntactic and semantic structures of language, such as prepositions and case roles, are grounded in perception and action. This study raises difficult problems, which thus far have not been addressed as a mathematical challenge. *Cognitive Morphodynamics* shows how this gap can be filled.

Inhalt

Contents: The Cognitive and Morphodynamical Turns - Things - Relations - Processes: What is an «Attractor Syntax»? - From Morphodynamics to Attractor Syntax - Attractor Syntax and Perceptual Constituency.

Autorenangaben

Jean Petitot is a mathematician and expert on neurocognitive models, a semiolinguist and a philosopher of science. He is currently professor at the École des Hautes Études en Sciences Sociales (EHESS) in Paris, and former director of CREA at the École Polytechnique. He is the author of eight books and over 300 articles, the editor of 10 volumes, and a member of the International Academy of Philosophy of Science, the editorial boards of several journals, and the scientific committees of many institutions.

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2. Morphodynamics in cognitive semiolinguistics. As mentioned above, during the 1980s the conceptual basis of semiolinguistic disciplines was deeply transformed. A new sensitivity emerged and the focus shifted to problems that had been left in the shadow so far. New foundations were asked for and new tools of conceptualization and formalization were transferred. COGNITIVE MORPHODYNAMICS. Dynamical Morphological Models of Constituency in Perception and Syntax. Jean PETITOT. In collaboration with René DOURSAT. Grammatically specified structuring appears to be similar, in certain of its characteristics and functions, to the structuring in other cognitive domains, notably that of visual perception. Len Talmy. By the same author. Jean Petitot & Cognitive Morphodynamics. Peter Lang. European Semiotics Sémiotiques Européennes. 11. Jean Petitot. Cognitive Morphodynamics. Dynamical Morphological Models of Constituency in Perception and Syntax. In collaboration with René Doursat.