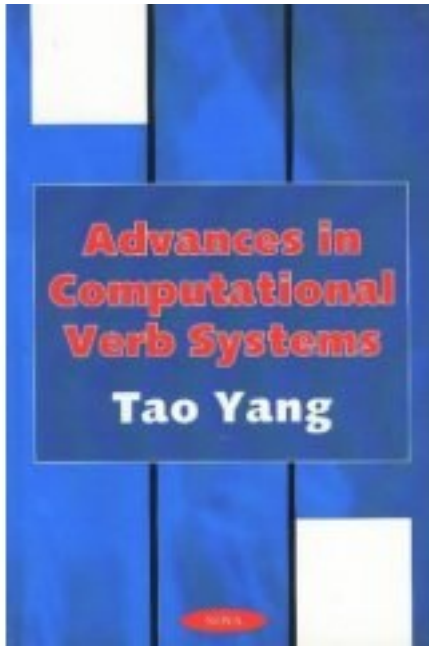


# Advances in Computational Verb Systems



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## Book Description

In the human language system there are two grammatical centers, nouns and verbs. A noun is described as the name of any person, place, or thing; while a verb is a word that shows any form of action. Human beings use words to express their own thoughts and to interpret the intentions of others. Natural languages play a very important role in human intelligence. To build intelligent machines, we need to bridge machines and human brains with a communication interface-a language system. However, we still need a paradigm to implement dynamic verbs in machines. This book explains how computational verb systems were developed in this context, and "living" verbs are embedded into machines. By using these computational verb systems, "dynamic"

knowledge and experience can be embedded into machine intelligence. It also explains the unique role played by computational verb systems in information and sciences, and how we need to know different knowledge representing paradigms used in informational systems. In this book, not only the machine models of verbs, but also a complete artificial language studied from the dynamic model of human perception.

#### 作者介绍:

Tao Yang (born 1970) is a computer scientist. He attended Tongji University, where he received his Bachelor's degree in 1990 and his Master's degree in 1993. He has invented fuzzy cellular neural networks (FCNN) in 1995, computational verb in 1997, chaotic digital CDMA (with L.O. Chua) in 1997, computational verb theory in 2001, physical linguistics in 2002, and the theory of the Unicogse in 2004.

He worked as a visiting scholar and associate research specialist of electrical engineering and computer sciences at the University of California, Berkeley from 1995 to 2001.

He is currently the Chief Scientist of Yang's Scientific Research Institute, U.S.; the CEO of Wuxi Tianyang Ruijie Technology Co. Ltd., China; and the editor-in-chief of the International Journal of Computational Cognition.

His research interests are: Cellular image processing and its applications to industrial applications, computational verb theory and its applications to image processing, computational cognition and its applications to cognitive image processing. He has authored and co-authored over one hundred journal and conference papers of which over 60 have been cited by SCI more than 1000 times.

His theories of computational verb and physical linguistics have been applied to different commercial and industrial applications such as cognitive image search engine, camera flame detecting systems, webcam card counting systems, webcam barcode scanners, webcam home security systems, highway vehicle categorizing systems, visual traffic monitoring and control systems, industrial intelligent controllers and image database indexing systems. The representative products are YangSky MAGIC Card Counter(2004), BarSeer webcam barcode reader(2005), FlameSky visual flame detecting system(2005), DriveQfy automatic visual driver qualify testing system(2005) and CardSeer camera playing card counting system(2005).

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