The process of learning words and languages may seem like an instinctual trait, inherent to nearly all humans from a young age. However, a vast range of complex research and information exists in detailing the complexities of the process of word learning.

Theoretical and Computational Models of Word Learning: Trends in Psychology and Artificial Intelligence strives to combine cross-disciplinary research into one comprehensive volume to help readers gain a fuller understanding of the developmental processes and influences that makeup the progression of word learning. Blending together developmental psychology and artificial intelligence, this publication is intended for researchers, practitioners, and educators who are interested in language learning and its development as well as computational models formed from these specific areas of research.

Topics Covered:

- Artificial Intelligence
- Cognitive Learning
- Computational Intelligence
- Computer-Assisted Language Learning
- Domain Specific Word Learning
- Human-Computer Interactions
- Perceptual Models

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.
**Section 1: The Puzzle: Broad Theoretical Approaches to Word Learning**

**Chapter 1**
*A Dynamic Neural Field Model of Word Learning*
Samuelson Larissa K. (University of Iowa, USA)
Spencer John P. (University of Iowa, USA)
Jenkins Gavin W. (University of Iowa, USA)

**Chapter 2**
*Timing Matters:*
Gogate Lakshmi (Florida Gulf Coast University, USA)
Hollitch George (Purdue University, USA)

**Chapter 3**
*Pushing the Envelope of Associative Learning:*
McMurray Bob (University of Iowa, USA)
Zhao Libo (University of Iowa, USA)
Samuelson Larissa K. (University of Iowa, USA)

**Chapter 4**
*How Experiences with Words Supply All the Tools in the Toddler’s Word-Learning Toolbox*
Houston-Price Carmel (University of Reading, UK)
Law Beth (University of Reading, UK)

**Chapter 5**
*Learning Words from Experience:*
Henderson Annette M. E. (University of Auckland, New Zealand)
Sabbagh Mark A. (Queen's University, Canada)

**Section 2: The Embodied Experience: Multiple Levels of Influence on Word Learning**

**Chapter 6**
*A Sensory-Motor Solution to Early Word-Referent Learning*
Yu Chen (Indiana University, USA)
Smith Linda B. (Indiana University, USA)

**Chapter 7**
*The Miracle Year:*
Boettfeld Heather (University of Connecticut, USA & Haskins Laboratories, USA)
Shaw Kathleen (University of Connecticut, USA)
Depowski Nicole (University of Connecticut, USA)

**Chapter 8**
*An Embodied Model of Young Children’s Categorization and Word Learning*
Twomey Katherine E. (University of Sussex, UK)
Horst Jessica S. (University of Sussex, UK)
Morse Anthony F. (University of Plymouth, UK)

**Section 3: Organismic Processes and Mechanisms for Word Learning**

**Chapter 9**
*Developmental Language Learning from Human/Humanoid Robot Social Interactions:*
Arsénio Artur M. (Universidade Técnica de Lisboa, Portugal)

**Chapter 10**
*Making Use of Multi-Modal Synchrony:*
Wrede Britta (Bielefeld University, Germany)
Schillingmann Lars (Bielefeld University, Germany)
Rohlfing Katharina J. (Bielefeld University, Germany)

**Chapter 11**
*Development of Word Recognition across Speakers and Accents*
Mulak Karen E. (University of Western Sydney, Australia)
Best Catherine T. (University of Western Sydney, Australia & Haskins Laboratories, USA)

**Chapter 12**
*A Neurobotics Approach to Investigating Word Learning Behaviors*
Veale Richard (Indiana University, USA)

**Chapter 13**
*Learning Words by Imitating*
Cederborg Thomas (INRIA, France)
Oudeyer Pierre-Yves (INRIA, France)

**Chapter 14**
*I Think I Have Heard That One Before:*
Sato Yo (University of Hertfordshire, UK)
Ji Ze (University of Hertfordshire, UK)
von Dijk Sander (University of Hertfordshire, UK)

**Chapter 15**
*Two Distinct Sequence Learning Mechanisms for Syntax Acquisition and Word Learning*
Walk Anne McClure (Saint Louis University, USA)
Conway Christopher M. (Georgia State University, USA)

**Order Your Copy Today!**

Name: __________________________
Organization: __________________________
Address: __________________________
City, State, Zip: __________________________
Country: __________________________
Tel: __________________________
Fax: __________________________
E-mail: __________________________

☐ Enclosed is check payable to IGI Global in US Dollars, drawn on a US-based bank

☐ Credit Card ☐ Mastercard ☐ Visa ☐ Am. Express

3 or 4 Digit Security Code: __________________________

Name on Card: __________________________
Account #: __________________________
Expiration Date: __________________________