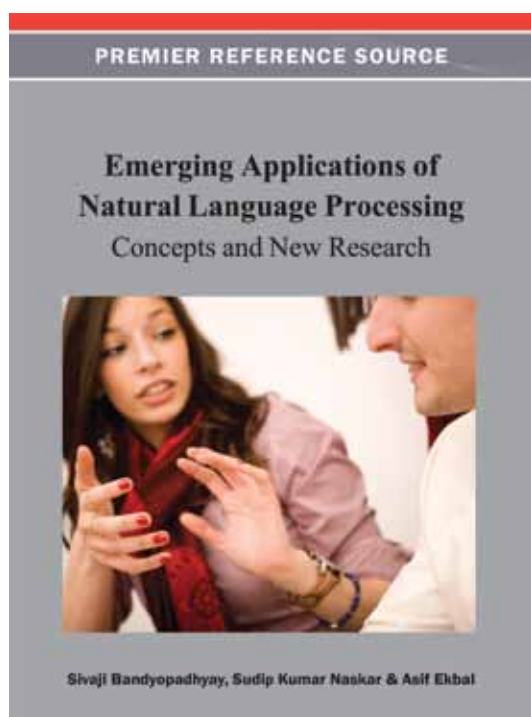


# An Excellent Addition to Your Library!

Released: October 2012

## Emerging Applications of Natural Language Processing: Concepts and New Research



Sivaji Bandyopadhyay (Jadavpur University, India),  
Sudip Kumar Naskar (Dublin City University, Ireland) and  
Asif Ekbal (Indian Institute of Technology Patna, India)

Over the last few years, the area of Natural Language Processing has drastically grown in recognition, not only within the research and development community, but also with industry professionals. As NLP continues to be discussed and researched, certain areas continue to grow and mature. As a result, the need for advanced research and information is in high demand.

**Emerging Applications of Natural Language Processing: Concepts and New Research** provides pertinent and vital information that researchers, postgraduate, doctoral students, and practitioners are seeking. This book compiles the latest discoveries and advances in NLP methodologies and applications while expanding upon various topics regarding the future of NLP.

### Topics Covered:

- Advanced Question Answering Systems
- Discourse Semantics
- Domain Adaptation in Part-of-Speech Tagging
- Interactive Question Answering
- Language Generation and Summarization
- Language Resources
- Multilingual Information Access
- Multiword Expressions in NLP
- Sentiment Analysis
- Statistical Machine Translation
- Word Sense Disambiguation

ISBN: 9781466621695; © 2013; 388 pp.

Print: US \$195.00 | Perpetual: US \$295.00 | Print + Perpetual: US \$390.00

### Pre-pub Discount:\*

Print: US \$185.00 | Perpetual: US \$280.00

\* Pre-pub price is good through one month after publication date.

**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.

**Sivaji Bandyopadhyay** received a Ph.D. degree in Computer Science and Engineering from Jadavpur University, Kolkata, India, in 1998. Since 1991, he has been a faculty member of the Department of Computer Science and Engineering, Jadavpur University. He is engaged with several national and international projects such as “Development of Cross Lingual Information Access (CLIA)”, DIT, Government of India, August 2006 – 2010, “Development of English to Indian Languages Machine Translation Systems (EILMT)”, DIT, Government of India, August 2006– 2010, “Development of Indian Languages to Indian Languages Machine Translation Systems (IL-ILMT)”, DIT, Government of India, August 2006– 2010, “An Advanced Platform for Question Answering Systems”, Indo-French Center for the Promotion of Advanced Research (IFCPAR), 2009-2012, “Multidisciplinary Research Field on Sentiment Analysis where AI meets Psychology (SAAIP)”, Strategic India-Japan Cooperative Programme-Project in the area of multidisciplinary ICT, DST, Government of India 2010-2013, “Answer Validation through Textual Entailment”, CONACYT, Mexico, DST, India, 2010-2012. His research interests are in the area of Natural Language Processing, Machine Learning, Machine Translation, Sentiment Analysis, Question Answering Systems, and Information Extraction. He has had more than 100 publications in top conferences and journals and has served as program chair, workshop chair, and PC member of IJCNLP, NAACL, NLPKE, ICON and others. Author is a member of the ACL, AAMT.



www.igi-global.com

Publishing Academic Excellence  
at the Pace of Technology Since 1988

## Section 1: Text Analytics

### Chapter 1

#### *Multinword Expressions in NLP:*

Gelbukh Alexander (National Polytechnic Institute, Mexico)  
Kolesnikova Olga (National Polytechnic Institute, Mexico)

### Chapter 2

#### *World Sense Disambiguation*

Bhattacharyya Pushpak (Indian Institute of Technology Bombay, India)  
Khapra Mitesh (Indian Institute of Technology Bombay, India)

### Chapter 3

#### *Domain Adaptation in Part-of-Speech Tagging*

Domingues Miriam Lúcia (Federal University of Pará, Brazil)  
Favero Eloi Luiz (Federal University of Pará, Brazil)

## Section 2: Machine Translation

### Chapter 4

#### *Statistical Machine Translation*

Specia Lucia (University of Sheffield, UK)

### Chapter 5

#### *A Computational Cognitive Model of Human Translation Processes*

Carl Michael (Copenhagen Business School, Denmark)

## Section 3: Advanced Question Answering System

### Chapter 6

#### *Advanced Question-Answering and Discourse Semantics*

Saint-Dizier Patrick (IRIT-CNRS, France)

### Chapter 7

#### *Interactive Question Answering*

Konstantinova Natalia (University of Wolverhampton, UK)  
Orasan Constantin (University of Wolverhampton, UK)

## Section 4: Multilingual Information Access

### Chapter 8

#### *Issues and Challenges in Building Multilingual Information Access Systems*

Varma Vasudeva (IIIT Hyderabad, India)  
Mogadala Aditya (IIIT Hyderabad, India)

### Chapter 9

#### *Multilingual Information Access*

Peinado Víctor (ETSI Informática, Spain)  
Rodrigo Álvaro (ETSI Informática, Spain)  
López-Ostenero Fernando (ETSI Informática, Spain)

## Section 5: Digital Content Management

### Chapter 10

#### *Mining User-Generated Content for Social Research and Other Applications*

Banchs Rafael E. (Institute for Infocomm Research, Singapore)  
Penagos Carlos G. Rodríguez (Barcelona Media Innovation Centre, Spain)

### Chapter 11

#### *NLP and Digital Library Management*

Da Sylva Lyne (University of Montreal, Canada)

## Section 6: Speech Processing

### Chapter 12

#### *Speechreading using Modified Visual Feature Vectors*

Singh Preeti (Malaviya National Institute of Technology, India)  
Laxmi Vijay (Malaviya National Institute of Technology, India)  
Gaur M. S. (Malaviya National Institute of Technology, India)

## 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: \_\_\_\_\_