Computational Linguistics

Editor's Note		iii
Articles		
Tagging English Text with a Probabilistic Model	Bernard Merialdo	155
Tree-Adjoining Grammar Parsing and Boolean Matrix Multiplication	Giorgio Satta	173
Japanese Discourse and the Process of Centering	Marilyn Walker, Masayo Iida, and Sharon Cote	193
Tracking Point of View in Narrative	Janyce M. Wiebe	233
Squibs and Discussions		
Parsing and Empty Nodes	Mark Johnson and Martin Kay	289
RAFT/RAPR and Centering: A Comparison and Discussion of Problems Related to Processing Complex Sentences	Linda Z. Suri and Kathleen McCoy	301
Book Reviews		
User Modeling in Text Generation Cécile L. Paris	Reviewed by T. Pattabhiraman	318
Briefly Noted		322
Books Received		327
Erratum		330



Editor 1993-

Julia Hirschberg AT&T Bell Laboratories 600 Mountain Avenue, 2D-450 Murray Hill, NJ 07974, USA (+1 908) 582-7496 acl@research.att.com

Associate Editor

Robert C. Berwick Massachusetts Institute of Technology Artificial Intelligence Laboratory Cambridge, MA 02139, USA (+1 617) 253-8918 berwick@ai.mit.edu

Book Review Editor

Graeme Hirst University of Toronto Computer Science Department Toronto, CANADA M5S 1A4 (+1 416) 978-8747 gh@cs.toronto.edu

The FINITE STRING Editor

Ralph M. Weischedel BBN Systems & Technologies 10 Moulton Street Cambridge, MA 02138, USA (+1 617) 873-3496 weischedel@bbn.com

Squibs and Discussions Co-Editors

James Pustejovsky Brandeis University Computer Science, Ford Hall Waltham, MA 02254, USA (+1 617) 736-2709 jamesp@cs.brandeis.edu

Robert J. P. Ingria BBN Systems & Technologies 10 Moulton Street Cambridge, MA 02138, USA (+1 617) 873-3582 ingria@bbn.com

Editorial Board Members

1992-94:

Jared Bernstein, Entropic Research Laboratory Edward J. Briscoe, University of Cambridge Sandra Carberry, University of Delaware Robert Dale, Microsoft Institute for Advanced Software Technology Mary Dalrymple, Xerox-Palo Alto Research Center Pierre Isabelle, CITI Yuji Matsumoto, Nara Institute of Science and Technology John Nerbonne, Rijksuniversiteit Groningen K. Vijay-Shanker, University of Delaware 1993-95:

Steven Bird, University of Edinburgh Bernard Lang, INRIA David D. Lewis, AT&T Bell Laboratories Kathleen F. McCoy, University of Delaware Rebecca L. Passonneau, Columbia University Graham Russell, ISSCO Yves Schabes, Mitsubishi Electric Research Laboratory

1994-96:

Hiyan Alshawi, AT&T Bell Laboratories Mark Johnson, Brown University John Lafferty, IBM/TJ Watson Research Center Lori Levin, Carnegie Mellon University Johanna Moore, University of Pittsburgh Stephen Pulman, SRI Cambridge/Cambridge University Mats Rooth, Universität Tübingen Keh-Yih Su, National Tsing Hua University David Weir, University of Sussex

Computational Linguistics

Editor's Note		iii
Articles		
Tagging English Text with a Probabilistic Model	Bernard Merialdo	155
Tree-Adjoining Grammar Parsing and Boolean Matrix Multiplication	Giorgio Satta	173
Japanese Discourse and the Process of Centering	Marilyn Walker, Masayo Iida, and Sharon Cote	193
Tracking Point of View in Narrative	Janyce M. Wiebe	233
Squibs and Discussions		
Parsing and Empty Nodes	Mark Johnson and Martin Kay	289
RAFT/RAPR and Centering: A Comparison and Discussion of Problems Related to Processing Complex Sentences	Linda Z. Suri and Kathleen McCoy	301
Book Reviews		
User Modeling in Text Generation Cécile L. Paris	Reviewed by T. Pattabhiraman	318
Briefly Noted		322
Books Received		327
Erratum		330

Copyright ©1994 by the Association for **Computational Linguistics.** Permission to photocopy articles for internal or personal use, or the internal or personal use of specific clients, is granted by the copyright owner for users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the fee of \$3.00 per article-copy is paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923. The fee code for users of the Transactional Reporting Service is 0891-2017/94 \$3.00. For those organizations that have been granted a photocopy license with CCC, a separate system of payment has been arranged. Such permission requests and other permission inquiries should be addressed to the Managing Editor at the address given on the inside front cover of this issue.

Computational Linguistics is abstracted and/or indexed in the following publications: Annual Review of Information Science and Technology, Computer Abstracts, Computing Reviews, Current Contents: Social and Behavioral Sciences, Engineering Index, Knowledge Engineering Review, Language and Language Behavior Abstracts, Linguistic Abstracts, Linguistic Bibliography, Science Abstracts (INSPEC Section C), and Social Sciences Citation Index.

Volume 14 and subsequent volumes of *Computational Linguistics* are available on microfilm through University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106, USA.

Send advertising and mailing list inquiries to Marketing Manager, MIT Press Journals, 55 Hayward Street, Cambridge, MA 02142; (617) 253-2866; e-mail: journals-info@mit.edu. Individual Subscriptions to Computational

Linguistics are available only with membership in the Association for Computational Linguistics (ACL). Annual Membership Dues are as follows: regular, \$40.00; *student* — taking a full-time program of courses and not earning a regular income, \$25.00; retired, \$25.00; joint - for couples receiving one subscription, \$50.00. A membership application together with an order form for back issues and conference proceedings is included at the end of this issue. Send membership applications and address changes to Betty Walker (ACL), Bellcore, 445 South Street, MRE 2A379, Morristown, NJ 07960, USA; acl@bellcore.com. However, note that it is also possible to pay by credit card (both by e-mail and by postal mail) and through banks in Switzerland and Japan.

Institutional Subscriptions are \$84.00. Outside the U.S. add \$14.00 postage handling. Canadian subscribers also add 7% GST. Single copies of current and back issues are \$22.00. Outside U.S. add \$5.00 per issue for postage and handling. Canadians add additional 7% GST. Send institutional subscription orders and address changes to MIT Press Journals, 55 Hayward Street, Cambridge, MA 02142; (617) 253-2889; e-mail: journals-orders@mit.edu. To be honored free of charge, claims for missing copies must be made immediately upon receipt of the next published issue. Prices subject to change without notice. Institutions should order back issues before 1988 and all proceedings from the ACL at the address above.

Editor's Note

This issue of *Computational Linguistics* marks the end of James Allen's long years of service as editor of the journal. James' first issue of *Computational Linguistics* was the January–March issue of 1983. His last issue was the March issue of 1993. In the ten intervening years, under James' leadership, and with the important support of Don Walker, late Secretary/Treasurer of the Association for Computational Linguistics and Managing Editor of *CL*, this journal has become the leading publication in its field. The ACL owes a great debt to both James and Don for establishing and maintaining high standards of scholarship for the journal; for making it increasingly sensitive to new trends in computational linguistics, without sacrificing appreciation for more traditional areas of research; and for seeking to make it a more international publication, in terms of its readership, its editorial board, and the manuscripts it publishes. To James, we say thank you for a job excellently done; in Don's memory, we will strive to maintain his vision of *Computational Linguistics* as the scholarly home of computational linguists everywhere.

Julia Hirschberg