

# **COLING BUDAPEST**

## **PROCEEDINGS**

of the

12th International Conference on Computational Linguistics

Organized by

the John von Neumann Society for Computing Sciences  
(NJSZT)

in cooperation with

the Institute of Linguistics, Hungarian Academy of Sciences  
(MTA NYTI)

the Computer and Automation Institute  
Hungarian Academy of Sciences

(MTA SZTAKI)

and

the Computer Research and Innovation Center  
(SZKI)

**22-27 August 1988**

**VOL. II**

John von Neumann Society for Computing Sciences  
BUDAPEST

Proceedings edited by  
Dénes Vargha  
Computer and Automation Institute  
Hungarian Academy of Sciences

Available from  
Association for Computational Linguistics (ACL)  
Dr Donald E. Walker

Bell Communications Research  
445 South Street, MRE 2A379  
Morristown, NJ 07960, USA

For information write to  
MTESZ Congress Bureau  
Kossuth tér 6-8  
H-1055 Budapest, Hungary

All Rights Reserved by ICCL  
ISBN 983 8431 56 3

Printed in Hungary by MTESZ Printing House

88/1129

Készült: 1000 példányban  
Felelős vezető: Boncza Gábor

**COLING '88**

**INTERNATIONAL COMMITTEE ON COMPUTATIONAL LINGUISTICS**

Martin Kay chairman

David G. Hays honorary member

E.Hajičová (CSSR), B.Harris (Canada), K.Heggstad (Norway),  
H.Karlgren (Sweden), O.Kulagina (USSR), W.Lenders (FRG),  
M.Nagao (Japan), G.Rondeau † (Canada), H.Schnelle (FRG),  
P.Sgall (CSSR), H.Wada (Japan), D.Walker (USA)  
Y.Wilks (USA), A.Zampolli (Italy)

**Previous COLING Conferences**

New York (1965), Grenoble (1967), Sönga Säby (1969), Debrecen (1971),  
Pisa (1973), Ottawa (1976), Bergen (1978), Tokyo (1980),  
Prague (1982), Stanford (1984), Bonn (1986)