## INFORMATION PROCESSING 74

TECHNOLOGICAL AND SCIENTIFIC APPLICATIONS

APPLICATIONS IN
THE SOCIAL SCIENCES AND
THE HUMANITIES

AUGUST 5-10 STOCKHOLM SWEDEN PREPRINTS

session 104: PATTERN RECOGNITION		session 105: ANALYSIS OF LITERARY TEXTS	
E. Diday, A. Schroeder, Y. Ok, The dynamic clusters method in pattern recognition	691		837
C.T. Zahn, Jr., An algorithm for noisy template matching	698		842
J. C. Stoffel, The theory of prime events – data analysis for sample vectors with inherently discrete variables	702	P.A. Fortier, From objectivity to convenience: information processing for literary study	846
		session 114: COMPUTERS AND ART	
session 215: COMPUTER GRAPHICS		I. Gumowski, C. Mira, Point sequences generated by	
C.A. Csuri, Real-time computer animation (Invited Paper)	707	two-dimensional recurrences	851
R. P. Futrelle, GALATEA: interactive graphics for the analyst		F. Briones, Computer painting with some subjective data	856
of moving images  D.H. McLain, Computer construction of surfaces through	712	L. Mezei, M. Puzin, P. Conroy, Simulation of patterns of nature by computer graphics	861
arbitrary points	717		001
R. Williams, On the application of relational data		session 314: COMPUTERS IN THE HUMANITIES	
structures in computer graphics	722	J. Raben, Alphabetic and numeric data processing:	
		a view from the humanities (Invited Paper)	866
session 305: PICTURE PROCESSING		P. Barbaud, Composing music and generating sound by	073
U. Montanari, Optimization methods in image processing		computer (Invited Paper)	872
(Invited Paper)	727	'- ALL COMPUTED ASSISTED INCOMPUTED	
R. Bernstein, Digital processing of earth observation imagery	733	session 405: COMPUTER ASSISTED INSTRUCTION F. Adam, R. Jacoud, M. Jacques, J.J. Kessis,	
T. Kanade, Y. Ohta, Picture processing laboratory and its applications	738	J.J. Pelletreau, J. Penné, J.P. Rambaut, J.P. Toulouse,	
	.50	A current C.A.I. project: the O.P.E. system	875
		F. Esposito, G. Ingravallo, A. Liso, O. Murro,	
session 315: METHODS IN PATTERN RECOGNITIO	N	G. Prezioso, M. Refice, N. Abbattista, C. Dell' Aguila, Computer based packages in the instructional engineering	
R. Narasimhan, The role of syntactic models in picture		approach	880
processing (Invited Paper)	743	A. Goldberg, Design of a computer-tutor for elementary	•
R.B. Neely, G.M. White, On the use of syntax in a low cost real time speech recognition system	748	mathematical logic	884
R. De Mori, Design for a syntax-controlled acoustic classifier		session 415: TEACHING COMPUTER SCIENCE	
		F.R.A. Hopgood, Computer animation used as a tool in	
		teaching computer science	889
session 414: COMPUTER-AIDED DESIGN C.A. Lang, Achievements in computer-aided design		T. Ohlsson, Microprogramming experiments: a vehicle for understanding computer architecture	893
(Invited Paper)	758	E. I. Organick, J. W. Thomas, Computer-generated semantics	073
M. Hosaka, F. Kimura, N. Kakishita, A unified method			898
for processing polyhedra	768	A.J. Surkan, Student produced example game with computer	003
B.G.J. Thompson, J. Hughes, An experimental investigation of the performance of a computer-aided building design system	n 773	feedback for FORTRAN learning	903
		session 605: SOCIAL IMPLICATIONS	
		N.R. Nielsen, The implications of star computing networks	908
session 614: ARTIFICIAL INTELLIGENCE		M. Mangad, W.E. Hanna Jr., Computers and health	012
AND CONTROL APPLICATIONS		insurance models	913
N.J. Nilsson, Artificial intelligence (Invited Paper)	778	session 703: NATURAL LANGUAGE	
M. Ozeki, S. Naganuma, N. Inada, Railway traffic control system (Invited Paper)	802	PROCESSING	
M.L. Dertouzos, Control robotics: the procedural control of	002	A. Tretiakoff, Computer generated word classes and	
physical processes	807	sentence structures	919
•.		A.K. Joshi, L.S. Levy, Local transformations A. Andreewsky, C. Fluhr, A learning method for natural	921
consist 044. ADTICIOIAL INTELLIGENCE		language processing and application to information retrieval	924
session 814: ARTIFICIAL INTELLIGENCE L. Siklóssy, J. Roach. Collaborative problem-solving			
between optimistic and pessimistic problem-solvers	814	session 815: COMPUTERS IN SOCIAL AND	
L.M. Daniel, AND-OR graphs and critical paths	818	ECONOMIC DEVELOPMENT	
P. S. Wang, Symbolic evaluation of definite integrals by residue theory in MACSYMA	823	D.S. Henderson, Computer experience with selected secondary and primary school children (Invited Paper)	928
N.S. Sridharan, A heuristic program to discover	023	H. Borko, Social implications of computer technology	/40
syntheses for complex organic molecules	828	(Invited Paper)	931

**TECHNOLOGICAL AND SCIENTIFIC** 

**APPLICATIONS** 

APPLICATIONS IN THE SOCIAL SCIENCES AND THE HUMANITIES