Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

65



Information Systems Methodology

Proceedings, 2nd Conference of the European Cooperation in Informatics, Venice, October 10–12, 1978

Technisch FACH	e Hoch Bereici			
BIB	LI	ОТ	Н	ΕK
Inventar-N	3	85	1	
Sachgebiet				
Standort:		************		

Edited by G. Bracchi and P. C. Lockemann



Springer-Verlag Berlin Heidelberg New York 1978

CONTENTS

Information System Planning and Analysis

B. Langefors	
Analysis of user needs.	
(invited paper)	1
J. Hawgood, F. Land, E. Mumford	
A participative approach to forward planning and system change.	39
C. Ciborra, G. Gasbarri, P.C. Maggiolini	
A participative approach to systems analysis: an action	
research in the local government.	62
F. Kolf, HJ. Oppelland, D. Seibt, N. Szyperski	
Tools for handling human and organizational problems	
of computer-based information systems.	82
N.L. Richards	
Organising for common systems.	120
Information Systems and Organization	
E. Mumford	
Values, technology and work.	
(invited paper)	142
M. Ricciardi	
A framework for the analysis of the relationship between	
business organization evolution and business information	
systems evolution.	160
JP. De Blasis	
Information systems management through office automation:	
an organizational and social perspective.	171

Analysis and Design Tools

e e e e e e e e e e e e e e e e e e e	
S. Krakowiak Methods and tools for information systems design. (invited paper)	193
W. Bartussek, D.L. Parnas Using assertions about traces to write abstract specifications for software modules.	211
P. Ancilotti, M. Boari, N. Lijtmaer Protection in languages for real time programming.	237
P. Aanstad, T. Johansen, G. Skylstad, A. Sølvberg An experiment in computer aided information systems development.	249
C. Delobel, E. Pichat The design of relational information system according to different kinds of dependencies.	266
Data Modelling	
R. Stamper Aspects of data semantics: names, species and complex physical objects.	291
A. Flory, J. Kouloumdjian A model for the description of the information system dynamics.	307
M. Adiba Modelling approach for distributed data bases.	319

Software Systems Development

H.D. Mills

Software system development. (invited paper, not included)

M. Demuynck, P. Moulin, S. Vinson	
Portability of the programs using a data base	
management system.	342
K. Sauter, W. Weingarten, J. Klonk, P.L. Reichertz	
A multi-level approach for data description and	
management of a large hierarchical database supporting	
a hospital patient information system.	367
A. Endres, W. Glatthaar	790
A complementary approach to program analysis and testing.	380
F. Lesh	
Organizing the sequencing of processes.	402
·	
J.M. Triance	
A macro facility for COBOL.	420
Implementation and Simulation Techniques	
•	
HJ. Schek	4.70
The reference string indexing method.	432
D. Kropp, H. Wrobel	
Working set size reduction by restructuring APL workspaces.	460
working bee bibe readeries by reservoising the workspaces.	
M. Badel, J. Leroudier	
Optimal multiprogramming: principles and implementation.	474
S. Baragli, S. Valvo	
A simulation model for a loop architecture distributed	
computer system.	504
Parallel Processes	
W. Cellary	
Scheduling dependent tasks from an infinite stream	
in systems with nonpreemptible resources.	521
R. Słowiński	
Scheduling preemptible tasks on unrelated processors	F 7 C
with additional resources to minimize schedule length.	536

M. Di Manzo, A.L. Frisiani, G. Olimpo Deadlock avoidance in graph-structured task systems.	548
P.R. Torrigiani Synchronic aspects of data types: construction of a non-algorithmic solution of the banker's problem.	560
Impact of Technology	
W.K. Liebmann The impact of technology on information system. (invited paper)	584
Man-Machine Interface	
W.A. Potas Interactive systems as if users really mattered.	618
P.A.V. Hall Man-computer dialogues for many levels of competence.	631
P.A.V./Hall, I.A. Hussein Design of information systems for Arabic.	643
System Use	
G.P.Learmonth, A.G. Merten Operation and evolution of organizational information systems. (invited paper)	664
V.P. Lane, F.G. Wright Human resources systematically applied to ensure computer security.	684
List of authors	696