
This tutorial contains 50 papers from the fields of cognitive ergonomics, cognitive psychology, psycholinguistics, and industrial/organizational psychology; it includes both recent research reports and classical papers that are often difficult to obtain. The editor introduces the material in seven sections devoted to models of problem solving, language characteristics, specification formats, faults and debugging, team performance, individual differences, and methodology.

Non-members—$30.00 Members—$22.50


This tutorial, initially presented at Compcon 81, constitutes a revision and updating of the first edition, presented at Compcon 79. Roughly a quarter of the material is new. The editors have revised the format extensively and provided substantial introductions to sections on software project management, software design strategies, and programming environments. Included are a bibliography of tutorial papers, a program design library listing, and an author and permuted title index.

Non-members—$25.00 Members—$18.75


Originally presented at Compcon 81, this tutorial addresses a broad definition of the software development environment—"all of the factors that affect the software development process." Thirty articles are presented in sections devoted to goals, language-based environments, Unix, methodologies, configuration, human/computer interaction, organization and ergonomics, and personal systems. The editor contributes an introduction to each section.

Non-members—$25.00 Members—$18.75


Fifty papers by 107 authors comprise these proceedings of the first CAPAIDM workshop sponsored by the IEEE Computer Society's Machine Intelligence and Pattern Analysis Technical Committee. Papers from the three disciplines involved—computer architecture, pattern analysis, and data-base management—were presented at sessions devoted to SIMD architecture, multiprocessor systems, parallel architectures, pictorial data-base systems, special-purpose systems, VLSI architecture, and algorithms and applications.

Non-members—$25.00 Members—$18.75


More than 70 organizations cooperated in structuring this symposium's program to ensure consideration of important issues. As a result, these proceedings include over 300 articles by some 500 authors in 16 major sections. Among the topics covered are biomedical engineering, emergency services, hospital information systems, nursing applications, and pharmacology systems.

Non-members—$60.00 Members—$45.00


These proceedings comprise a sampling of the best regional entries in a search begun in November 1980. The work of more than 100 authors is presented in sections dealing with the major categories of disability: hearing, speech, language, learning, movement, and vision. A list of regional prize winners includes abbreviated descriptions of their entries.

Non-members—$22.00 Members—$16.50


Many of the 52 papers in these proceedings represent preliminary reports, extended abstracts, or summaries of continuing research. Selected for their originality and relevance to theoretical computer science, the papers cover such topics as simulations among multidimensional Turing machines, concurrent data-base transactions, decidable mu-calculus, and graph searching complexity.

Non-members—$30.00 Members—$22.50


Thirty-two articles addressing protocols, heterogeneous computer networks, societal issues, modeling, local networks, satellite networks, architecture, and internetworking comprise these proceedings. The symposium sponsors—ACM, the IEEE Communications Society, and the IEEE Computer Society's Technical Committee on Computer Communications—proposed no special theme; the result is a broad-spectrum view of the field.

Non-members—$25.00 Members—$18.75


This digest features 74 papers from 15 conference sessions on topics such as microprocessor testing, memory testing, self-testing, CODEC testing, board testing, measurement and calibration, economics, and architecture. Also included are eight papers on system testing, an emphasis requested by attendees of the 1980 conference.

Non-members—$36.00 Members—$27.00


Sponsored by the University of Minnesota Computing Center, the IEEE Computer Society's Technical Committee on Computer Communications, and the Twin Cities chapter of the IEEE, the conference was held in Minneapolis. The proceedings contain 14 papers on system concepts, protocols, strategies, performance, and recent research results.

Non-members—$16.00 Members—$12.00