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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 282
Disciplina	005.1
Soggetti	Software engineering Application software Artificial intelligence Computer graphics Software Engineering/Programming and Operating Systems Computer Applications Artificial Intelligence Software Engineering Computer Graphics
Lingua di pubblicazione	Inglese
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Visual languages: A tutorial and survey -- The gestalt analysis of programs -- Visualizing of program structures: Support concepts and implementation -- The role of mental models in programming: From experiments to requirements for an interactive system -- Learning structured diagrams — effect of mathematical background, instruction, and problem semantics -- How people comprehend unknown system structures: Conceptual primitives in systems' surface representations -- On visual interfaces and their conceptual analysis -- On the visualization of design notions, of notion instantiations, and of structural relationships in a design data base realized as a semantic net -- On the design of a graphical transition network editor -- Reference and data construction in boxer -- Solving interpolation problems with LOGO and BOXER -- Visual languages and the GARDEN system --

Compiler aspects of an environment for programming by demonstration.

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Sommario/riassunto

This volume presents a selection of contributions from the Fifth Workshop on Informatics and Psychology at Schärding, Austria, May 1986, which focused on "Visual Aids in Programming". The lectures give a broad view of the state of the art in this new field of research and development spanning Cognitive Science, Informatics and Ergonomics, which draws its impact from the growing need for a deeper understanding of complex program structures and for better program design. The topics include the visualization of program structures, the discussion of psychological aspects, design problems of visual interfaces, and present implementations.

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