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Advanced Programming Environments

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Source level debuggers: Experience from the design and implementation of chillscope.- Data-oriented incremental programming environments.- Context-sensitive editing with PSG environments.- Editing large programs using a structure-oriented text editor.- On the usefulness of syntax directed editors.- PegaSys and the role of logic in programming environments.- GARDEN tools: Support for graphical programming.- Discussion.- SunPro engineering a practical program development environment.- Information structuring for software environments.- An architecture for tool integration.- Software development in a distributed environment: The XMS system.- The SAGA approach to automated project management.- A process-object centered view of software environment architecture.- Software development environments: Research to practice.- Discussion.- A model of software manufacture.- Protection and cooperation in a software engineering environment.- The integration of version control into programming languages.- Discussion.- IDL: Past experience and new ideas.- Supporting flexible and efficient tool integration.- Views for tools in integrated environments.- Discussion.- Damokles - A database system for software engineering environments.- Toward a persistent object base.- Choosing an environment data model.- Version management in an object-oriented database.- Discussion.- Abstract data types, specialization, and program reuse.- Towards advanced programming environments based on algebraic concepts.- Program development by transformation and refinement.- Discussion.- Creating a software engineering knowledge base.- The unified programming environment: Unobtrusive support.- Beyond programming-in-the-large: The next challenges for software engineering.- Reuse of cliches in the knowledge-basededitor.- Organizing programming knowledge into syntax-directed experts.- Framework for a knowledge-based programming environment.- Discussion.- Summing up.

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