SCIENCE OF COMPUTER PROGRAMMING
Methods of Software Design: Techniques and Applications

AUTHOR INFORMATION PACK

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DESCRIPTION

Science of Computer Programming is dedicated to the distribution of research results in the areas of software systems development, use and maintenance, including the software aspects of hardware design.

The journal has a wide scope ranging from the many facets of methodological foundations to the details of technical issues and the aspects of industrial practice.

The subjects of interest to SCP cover the entire spectrum of methods for the entire life cycle of software systems, including
• Requirements, specification, design, validation, verification, coding, testing, maintenance, metrics and renovation of software;
• Design, implementation and evaluation of programming languages;
• Programming environments, development tools, visualisation and animation;
• Management of the development process;
• Human factors in software, software for social interaction, software for social computing;
• Cyber physical systems, and software for the interaction between the physical and the machine;
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Special emphasis is given to recent trends in software development, such as software architecture, component-based software development and web-based software engineering. SCP is divided into four tracks. These are: (1) Concepts and methodology, (2) Formal techniques, (3) Experimental software technology, (4) Descriptive software technology.

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- requirements, specification, design, validation, verification, coding, testing, maintenance, metrics and renovation of software;
- design, implementation and evaluation of programming languages;
- programming environments, development tools, visualisation and animation;
- management of the development process;
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- software aspects of operating systems, system administration and network management

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