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This volume contains the final proceedings of the 7th International Andrei Ershov Memorial Conference on Perspectives of System Informatics Akademgorodok (Novosibirsk, Russia), June 15–19, 2009. PSI is a forum for academic and industrial researchers, developers and users working on topics relating to computer, software and information sciences. The conference serves to bridge the gaps between different communities whose search areas are recovered by but not limited to foundations of program and system development and analysis, programming methodology and software engineering, and information technologies. PSI 2009 was dedicated to the memory of a prominent scientist, academician Andrei Ershov (1931–1988), and to a significant date in the history of computer science in the country, namely, the 50th anniversary of the Programming Department founded by Andrei Ershov. Initially, the department was a part of the Institute of Mathematics and later, in 1964, it joined the newly established Computing Center of the Siberian Branch of the USSR Academy of Sciences. Andrei Ershov, who was responsible for forming the department, gathered a team of young graduates from leading Soviet universities. The first significant project of the department was aimed at the development of ALPHA system, an optimizing compiler for an extension of Algol 60 implemented on a Soviet computer M-20. Later, the researchers of the department created the Algibr, Epsilon, Sigma, and Alpha-6 programming systems for the BESM-6 computers. The list of their achievements also includes the first Soviet time-sharing system AIST-0, the multi-language system BETA, research projects in artificial intelligence and parallel programming, integrated tools for text processing and publishing, and many others.

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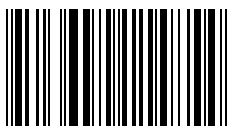
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