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Welcome to the proceedings of the 2005 International Conference on Embedded Software and Systems (ICESS 2005) held in Xian, China, December 16-18, 2005. With the advent of VLSI system level integration and system-on-chip, the center of gravity of the computer industry is now moving from personal computing into embedded computing. Embedded software and systems are increasingly becoming a key technological component of all kinds of complex technical systems, ranging from vehicles, telephones, aircraft, toys, security systems, to medical diagnostics, weapons, pacemakers, climate control systems, etc. The ICESS 2005 conference provided a premier international forum for researchers, developers and providers from academia and industry to address all resulting profound challenges; to present and discuss their new ideas, search results, applications and experience; to improve international communication and cooperation; and to promote embedded software and system industrialization and wide applications on all aspects of embedded software and systems.