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The 11 th IFIP International Conference on Very Large Scale Integration, in Montpellier, France, December 3-5,2001, was a great success. The main focus was about IP Cores, Circuits and System Designs & Applications as well as SOC Design Methods and CAD. This book contains the best papers (39 among 70) that have been presented during the conference. Those papers deal with all aspects of importance for the design of the current and future integrated systems. System on Chip (SOC) design is today a big challenge for designers, as a SOC may contain very different blocks, such as microcontrollers, DSPs, memories including embedded DRAM, analog, FPGA, RF front-ends for wireless communications and integrated sensors. The complete design of such chips, in very deep submicron technologies down to 0.13 mm, with several hundreds of millions of transistors, supplied at less than 1 Volt, is a very challenging task if design, verification, debug and industrial test are considered. The microelectronic revolution is fascinating; 55 years ago, in late 1947, the transistor was invented, and everybody knows that it was by William Shockley, John Bardeen and Walter H. Brattein, Bell Telephone Laboratories, which received the Nobel Prize in Physics in 1956. Probably, everybody thinks that it was recognized immediately as a major invention.

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