

Abstract:

There are three parts in the presentation. Firstly, the overview of integrated circuits design industries in 2010 of Mainland China is addressed. The top companies of IC design in Mainland China are analyzed and their geographical distribution is discussed. Secondly, the research activities of Institute of Microelectronics of Tsinghua University are introduced. Research topics and new achievements are brief addressed. Lastly, the researches of in the Integrated circuits design for the application of portable medical and health care products are discussed. Through years, Professor Zihua WANG focus on emerging area of CMOS RFIC based biomedical integrated systems and an extensive achievement has been obtained in the arena of RFCMOS circuit design. The presentation of this part includes the integrated circuit and system design of the wireless endoscopy capsule, neural stimulation, wireless monitoring for the orthopedic implants.