

Department of Computer Science

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Overview

In today's cutting edge science and technology, computers play an indispensable and integral role and their application areas are diverse and far-reaching. In order to respond to the ever-increasing demand for technical expertise in the computer and information technology industry, our department's goal is to teach students to be well versed both in theory and application and to be highly adaptable and proficient in practice.

As the first Computer Science graduate program in Korea, we have produced the very best bachelors, masters and PhDs in Korea. We take pride in being a top-notch world-class research and education department. Since its foundation in 1972, the department has produced 1,211 bachelors, 1,540 masters, and 480 PhDs (Dec 2009 currently), and has been a major talent pool for the entire IT industry in Korea. Our curriculum is well-balanced between theory and application, with much emphasis on experimental approaches. To keep students up-to-date with new developments and advances that have not been incorporated into the regular curriculum, we also encourage them to participate in research projects through independent studies and special topic courses.

Currently our department hosts three Engineering Research Centers funded by KOSEF, namely the Advanced Information Technology Research Center (AITRC), the Virtual Reality Research Center (VRRC), and the Mobile Media Research Center (MMRC). The Software Process Improvement Center (SPIC) is funded by the Ministry of Information and Communications. Five National Research Lab -the Information Systems Laboratory, the Computer Architecture Laboratory, the Computer Graphics Laboratory, the Artificial Intelligence and Pattern Recognition Laboratory (AIPR), and the Global USN Laboratory- is funded by the Ministry of Science and Technology; and the Semantic Web Research Center (SWRC) and KAIST-Microsoft Research Center, and more KAIST research centers are funded by the Ministry of Knowledge Economy. Department also has Auto-ID Laboratory ,funded by GS1, and IBM-KAIST Cluster Computing Center (IBM-KAIST CCC). These research centers, along with the department, support research collaboration with other Korean universities and research laboratories, as well as with foreign research centers and universities. MS students Dual Degree Program with TU Berlin is in action and more Dual Degree Programs with Georgia Tech. and CMU is in promotion.

Our departmental curriculum covers all topics related to design, implementation, and application of computer system hardware and software. Especially holding pervasive computing as our basic concept, we research and teach in interdisciplinary areas. With our excellent faculty (Dec 2009 currently, 49 faculty) and first-rate facilities, we will continue government-funded and industry-liaison research, and are committed to our leadership role in computer science in the 21st century.

☞ Life After Graduation

Most graduates of our department continue with master's degree programs or work in industry. Those with Master's degree either advance to PhD programs, or work as senior members in industry and research laboratories. Many of our graduates have been a driving force behind the 1990's IT boom in Korea and founded HandySoft, Serome, Future Systems, Nadatel, etc. Currently 8 listed companies and 73 venture business is founded by Computer Science graduates. Our 480 PhDs work in universities, corporate research laboratories, and industry and are the main backbone behind world-class research in computer science.