

Download The Computer Science And Engineering Handbook

Computer science is the study of processes that interact with data and that can be represented as data in the form of programs. It enables the use of algorithms to manipulate, store, and communicate digital information. A computer scientist studies the theory of computation and the practice of designing software systems. Its fields can be divided into theoretical and practical disciplines. Computer engineering is a branch of engineering that integrates several fields of computer science and electronic engineering required to develop computer hardware and software. Computer engineers usually have training in electronic engineering (or electrical engineering), software design, and hardware-software integration instead of only software engineering or electronic engineering. Creating a Virtual Assistant for Software Engineers Researchers in the Department of Computer Science and Engineering are working to make the software development process more efficient by creating a virtual assistant for software engineers. Most computer hardware engineers need a bachelor's degree from an accredited computer engineering program. Education. Most entry-level computer hardware engineers have a bachelor's degree in computer engineering, although a degree in electrical engineering or computer science also is generally acceptable.