

004 Computer science

Class here data processing; selection and use of computer hardware; electronic computers; electronic digital computers; computer systems (computers, their peripheral devices, their operating systems); cyberinfrastructure; central processing units; adaptive computing systems; computer reliability; informatics; interactive, online processing; mobile computing; comprehensive works on hardware and programs in electronic data processing

Class computer modeling and simulation in 003.3. Class computer applications in a specific subject with the subject, plus notation 0285 from Table 1, e.g., computer applications in banking 332.10285; class informatics of a specific subject with the subject, plus notation 0285 from Table 1, e.g., bioinformatics 570.285

For computer programming, programs, data, see 005; for special computer methods, see 006; for engineering, manufacture, repair of computers, see 621.39. For a specific aspect of mobile computing, see the aspect, e.g., handheld computing devices 004.167, wireless communications 004.6, mobile operating systems for handheld computing devices 005.446; for a specific aspect of adaptive computing systems, see the aspect, e.g., reconfigurable architectures 004.22, hardware description languages 621.392, field-programmable gate arrays 621.395

See also 025.04 for automated information storage and retrieval; also 303.4834 for computers as a cause of social change; also 343.0999 for computer law; also 364.168 for financial and business computer crimes; also 371.334 for computer-assisted instruction (CAI); also 658.05 for data processing in management; also 794.8 for computer games

See Manual at 004–006 vs. 621.39; also at 004 vs. 005; also at 510, T1–0151 vs. 004–006, T1–0285

.35 *Multiprocessing

Including systems analysis and design, computer architecture, performance evaluation; array processing, associative processing, dataflow computation

Class here cluster computing, massively parallel supercomputers, parallel processing; multicore processors

Class comprehensive works on associative processing and memory in 004.5; class programming for multiprocessor computers in 005.275

.6 *Interfacing and communications

Standard subdivisions are added for either or both topics in heading

Including sensor networks

Class here data communications; internetworking, interoperability; wired communications, wireless communications; interdisciplinary works on computer communications

Class data, programs, programming in interfacing and communications in 005.7; class security measures in interfacing and communications in 005.8

For interdisciplinary works on telecommunication, see 384; for social aspects of computer communications, see 302.231; for economic and related aspects of providing computer communications to the public, see 384.3

See also 004.36 for distributed processing

See Manual at 004.6 vs. 005.71; also at 004.6 vs. 384.3; also at 004.6 vs. 621.382, 621.3981

.77 *Output peripherals

Including monitors (video display screens), printers; haptic devices

Class output peripherals that utilize computer sound synthesis in 006.5; class computer graphics output devices in 006.62

See also 005.43 for monitors (software control programs); also 005.18 for monitors (firmware control programs); also 621.988 for three-dimensional printing