Computer Graphics

Course 365 - Four days

Hardware elements of computer graphics systems are presented at the level required for detailed system specification, selection and acquisition. Software techniques for computer graphic systems are developed from the elementary level of line generation and continue through advanced approaches to animated three-dimensional color displays with hidden surface removal. Off-the-shelf, commercially available software packages are analyzed and evaluated. Emphasis is placed on hardware/software tradeoffs, cost effectiveness and the advantages and limitations of alternative approaches.

Digital Signal Processing

Course 412 - Five days

The objective of this course is to present the necessary fundamentals of digital signal processing in a clear and comprehensive manner, to develop an understanding of new processing techniques, to survey the state of the art of hardware and software available, and to apply this information to a range of concrete design examples. The course is of benefit both for those who wish to achieve a basic understanding of this exciting area, and for those whose interest is in advanced techniques and the implementation of practical systems.

Distributed Processing and Computer Networks

Course 350 - Four days

This course provides a comprehensive introduction to distributed processing and computer network design techniques. It covers the individual elements of a distributed processing system and how these elements are synthesized into form a system which best meets application specific objectives. Throughout the course, application examples provide concrete examples of the concepts presented, with emphasis on the factors affecting key planning, design and implementation decisions.

Database Management Systems

Course 380 - Four days

This course is designed for programmers, analysts, data base administrators and managers who are responsible for the selection, implementation and operation of a DBMS in their organization, either on mainframes or minicomputer systems. Commercially available DBMS packages are evaluated in terms of data definitions, data structure, data language facilities, storage and access efficiency, state-of-the-art currency, and the types of application for which they are best suited. Application Case Studies covering requirements analysis, database design and system utilization, provide concrete examples of how DBMS concepts are implemented in different types of data environments.

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