



การปรับปรุงหลักสูตร วศ.บ. (คอมพิวเตอร์)

3 กรกฎาคม 2543



เนื้อหา

- ◆ IEEE/ACM Curricula 1991
- ◆ IEEE/ACM Curricula 2001 (draft)
- ◆ CP Curricula 2001

Historical Background

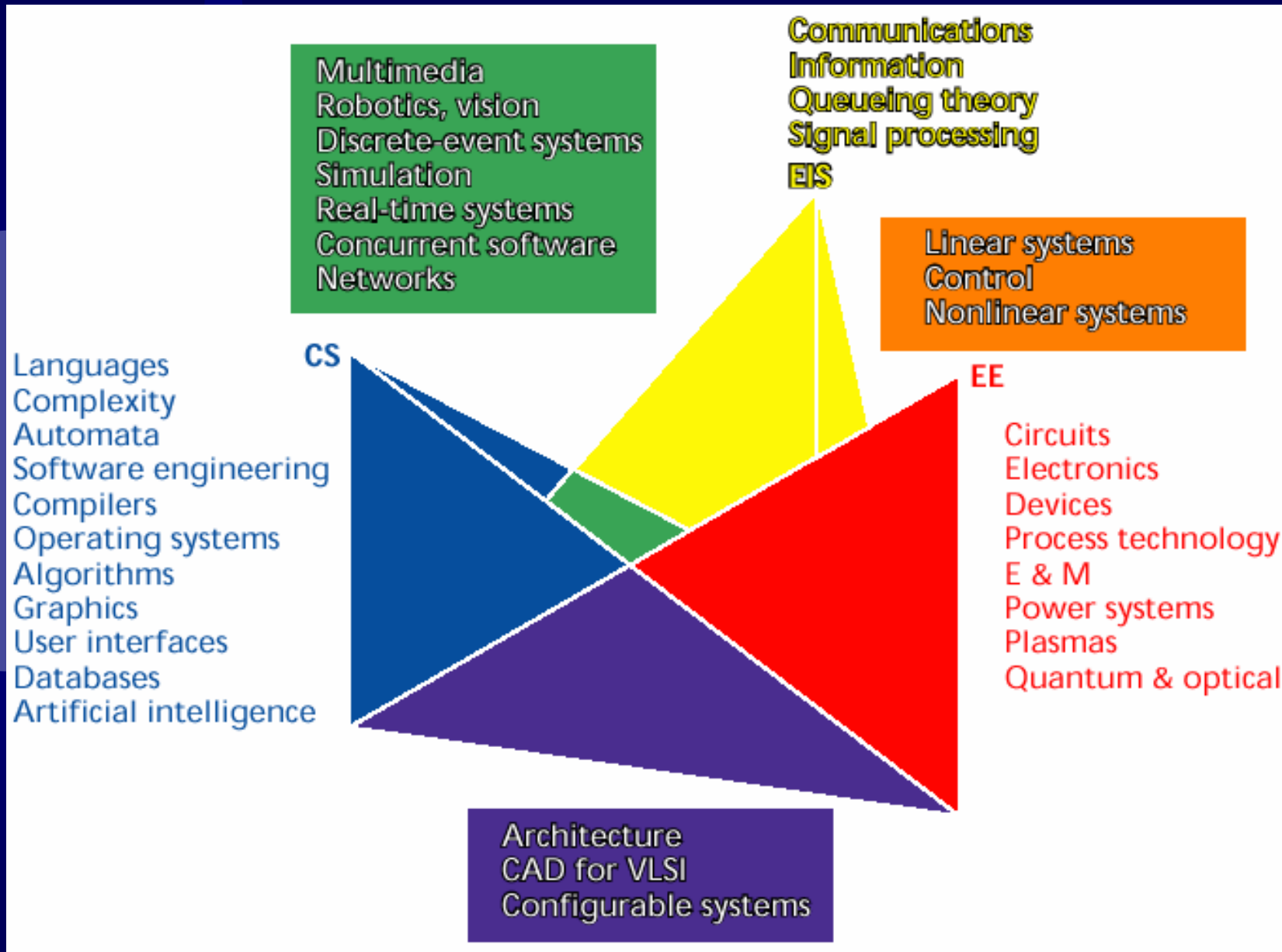
Computing = Computer Science



Mathematics



Electrical Engineering





Computing Curricula 1991

◆ Disciplines

- ◆ Mathematical
- ◆ Scientific
- ◆ Engineering

◆ Processes

- ◆ Theory
- ◆ Abstraction
- ◆ Design

CC1991 : Nine Subject Areas

- ◆ Algorithms & Data Structures (47)
- ◆ Architecture (59)
- ◆ AI & Robotics (9)
- ◆ Database & IR (9)
- ◆ Human-Computer Communication (8)
- ◆ Numerical & Symbolic Computation (7)
- ◆ Operating System (31)
- ◆ Prog. Languages (46)
- ◆ Software Methodology & Engineering (44)

Social Ethical and Professional Issues (11)

CC1991 vs. CP2000

- ◆ Algorithms & Data Structures
- ◆ Architecture
- ◆ AI & Robotics
- ◆ Database & IR
- ◆ Human-Computer Communication
- ◆ Numerical & Symbolic Computation
- ◆ Operating System
- ◆ Prog. Languages
- ◆ Software Methodology & Engineering

Social Ethical and Professional Issues

Computing Curricula 2001

◆ Technological Changes

- ◆ Network, Internet, WWW
- ◆ Graphics & Multimedia
- ◆ Embedded System
- ◆ Relational Database
- ◆ OOP
- ◆ API
- ◆ Security & Cryptography
- ◆ ...

CC2001 : Body of Knowledge

- ◆ Discrete structures
- ◆ Prog. fundamentals
- ◆ Algorithm and complexity
- ◆ Programming Lang.
- ◆ Architecture
- ◆ Operating System
- ◆ Human-computer interaction
- ◆ Intelligent System
- ◆ Graphics, Visualization & Multimedia
- ◆ Info. Management
- ◆ Net-centric computing
- ◆ Software engineering
- ◆ Computational Sci.
- ◆ Social, Ethical, Professional Issues

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- ◆ Discrete structures 37
- ◆ Prog. fun. 65
- ◆ Alg. 31 and complexity
- ◆ Program 5 Lang.
- ◆ Arch. 33
- ◆ Operatin 22 system
- ◆ Hu 3 computer interaction
- ◆ Intelliger 10 system
- ◆ Graphics, Visualization & Multimedia 0
- ◆ Info. Man 10
- ◆ Net 15
- ◆ Software 30
- ◆ Co 0
- ◆ Social, Bus, Professional Issues 16

CC2001 vs. CP2000

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- ◆ Social, Ethical, Professional Issues

CP2001 == CC2001

- ◆ Programming Fundamental

21102XX : Prog. Fundamentals

- ◆ Human-Computer Interaction

- ◆ Intelligent

21103XX : Intelligent System

- ◆ Informat

2110422 : DBMS Design

- ◆ Net-Cen

21103XX : Net-Centric Computing

- ◆ Social, E

21101XX : Fund. of Computing

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CP2001

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Net. Comp.	SE.	DBMS	OOx	Em. Sys
AI	Comp. Network	OS.	VLSI	
Algorithms	Compiler	Sys. Prog.	Comp. Arch	
Formal Lang.	Data Structures	Logic Design		
Discrete Math.	Prog. Fundamental	Comp. Org.		
Fundamental of Computing				

