

ALLEGATO 6

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
A	General	A.0	General Literature. General
A1	Storia e futuro dell'Informatica	K.2	History of Computing
A2	Informatica e società	K.4	Computers and Society
A3	Informatica nelle varie nazioni	K.2	History of Computing
A4.1	Leggi e decreti	K.5	Legal aspects of computing
A4.2	Annuari e statuti	A.2	Reference (e.g., dictionaries, encyclopedias, glossaries)
A4.3	Insegnamento dell'Informatica	K.3.2	Computers and Education--Computer and Information Science Education-- <i>Computer Science Education</i>
A4.4	Ricerca: repertori, programmi	A.2	Reference (e.g., dictionaries, encyclopedias, glossaries)
A5	Ambienti di calcolo		
A5.2	Aspetti professionali	K.7	The Computing profession
A5.3	Leggi, regolamenti, problemi legali	K.5	Legal Aspects of Computing
A5.4	Gestione dei centri di calcolo	K.6m	Management of Computing and Information Systems--Miscellaneous
A5.4.1	Addestramento del personale	K.6.1	Management of Computing and Information Systems--Project and People Management-- <i>Training</i>
A5.4.2	Valutazione del rendimento	K.6.1	Management of Computing and Information Systems--Project and People Management
A5.4.3	Sicurezza e privacy		
A5.4.4	Standard		
A5.5	Repertorio dei centri di calcolo	A.2	Reference (e.g., dictionaries, encyclopedias, glossaries)
A5.6	Repertorio dei prodotti e dei servizi	A.2	Reference (e.g., dictionaries, encyclopedias, glossaries)
A6	Bibliografie specializzate	A.2	Reference (e.g., dictionaries, encyclopedias, glossaries)
A7	Informatica - Testi generali	A.0	General Literature--General literary works (e.g., fiction, plays)
A9.10			
A9.11			
A10	Guide	A.2	Reference (e.g., dictionaries, encyclopedias, glossaries)
A11	Handbooks	A.2	Reference (e.g., dictionaries, encyclopedias, glossaries)
A12	Electronic Computers		
B	General; Numerical and Symbolic Analysis	G.1	Numerical Analysis
B1	Computer Mathematics - General	G.0	Mathematics of Computing--General
B2	Computer Arithmetic	G.1	Numerical Analysis--Computer arithmetic
B3	Basic Concept of Numerical Analysis	G.1	Numerical Analysis
B4	Computation (Expansion) of Functions	G.1	Numerical Analysis

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B5	Approximations; Curve Fitting	G.1.2	Numerical Analysis--Approximation
B5.1	Principles and Basic Concepts of Approximation Theory	G.1.2	Numerical Analysis--Approximation
B5.2	Interpolation and Extrapolation	G.1.1	Numerical Analysis--Interpolation / Numerical Analysis--Interpolation-- <i>Extrapolation</i>
B5.3	Minimax (Chebyshev) Approximation	G.1.2	Numerical Analysis--Approximation-- <i>Chebyshev approximation and theory</i>
B5.5	Other Approximation Methods	G.1.2	Numerical Analysis--Approximation-- <i>Special function approximations</i>
B6	Numerical Methods of Problem Solving	G.1	Numerical Analysis--General-- <i>Numerical algorithms</i>
B6.1	Polynomials, Matrices, Algebraic equations	G.1.5	Numerical Analysis--Roots of Nonlinear Equations-- <i>Polynomials, methods for</i>
B6.2	Differentiation	G.1.4	Numerical Analysis--Quadrature and Numerical Differentiation-- <i>Automatic differentiation</i>
B6.3	Integration	G.1.4	Numerical Analysis--Quadrature and Numerical Differentiation-- <i>Equal interval integration</i>
B6.4	Differential Equations	G.1.7	Numerical Analysis--Ordinary Differential Equations
B8	Nonnumerical Methods of Problem Solving (Symbolic Analysis); Computer Algebra	F.2.2	Analysis of Algorithms and Problem Complexity--Nonnumerical Algorithms and Problems
B9	Applied Mathematics	G.0	Mathematics of Computing--General
C	Elementary Algebra	G.1.3	Numerical Analysis--Numerical linear algebra
C1		G.1.3	Numerical Analysis--Numerical Linear Algebra
C1.2		G.1.3	Numerical Analysis--Numerical Linear Algebra
C1.4		G.1.3	Numerical Analysis--Numerical Linear Algebra
C2	Polynomials and Polynomial Equations	G.1.5	Numerical Analysis--Roots of Nonlinear Equations-- <i>Polynomials, methods for</i>
C2.4		G.1.5	Numerical Analysis--Roots of Nonlinear Equations-- <i>Polynomials, methods for</i>
C3	Single Algebraic Equations	G.1.5	Numerical Analysis--Roots of Nonlinear Equations-- <i>Systems of equations</i>
C4	Matrix Theory	G.1.3	Numerical Analysis--Numerical Linear Algebra
C4.2	Properties of Matrices and Matrix Calculations; Determinants	G.1.3	Numerical Analysis--Numerical Linear Algebra
C4.4	Types of Matrices	G.1.3	Numerical Analysis--Numerical Linear Algebra
C4.6	Eigenvalues and Eigenvectors of Matrices	G.1.3	Numerical Analysis--Numerical Linear Algebra
C4.7	Operations in Matrices	G.1.3	Numerical Analysis--Numerical Linear Algebra
C4.7.1	Inversion	G.1.3	Numerical Analysis--Numerical Linear Algebra--Matrix inversion
C4.9	Application of Matrix Theory	G.1.3	Numerical Analysis--Numerical Linear Algebra

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
C5	Systems of Linear Equations (Linear Systems)	G.1.3	Numerical Analysis--Numerical Linear Algebra-- <i>Linear systems (direct and iterative methods)</i>
C5.3		G.1.3	Numerical Analysis--Numerical Linear Algebra-- <i>Linear systems (direct and iterative methods)</i>
C6	Systems of General Equations	G.1.5	Numerical Analysis--Roots of Nonlinear Equations-- <i>Systems of equations</i>
C7	Inequalities	G.1.5	Numerical Analysis--Roots of Nonlinear Equations-- <i>Systems of equations</i>
C8	Machine Algebra	I.1	Symbolic and Algebraic Manipulation
D	Calculus	G.0	Mathematics of computing--General
D1	Functions, Maxima and Minima		
D2	Sequences and Series		
D3	Orthogonal Functions and their Series; Fourier Series	G.1.2	Numerical Analysis--Approximation-- <i>Fast Fourier transforms (FFT)</i>
D5	Integrations of Functions; Quadrature	G.1.4	Numerical Analysis--Quadrature and Numerical Differentiation
D6	Vector and Tensor Calculus		
D7	Calculus of Variations		
D8	Other Types of Calculus		
D9	Integral Transforms		
E	Difference, Differential and Integral equations	G.1.7 / G.1.8	Numerical Analysis--Ordinary Differential Equations o Numerical Analysis--Partial Differential Equations
E1	Difference and Differential-Difference Operators and Equations	G.1.9	Numerical Analysis--Integral Equations-- <i>Integro-differential equations</i>
E2	Ordinary Differential Equations	G.1.7	Numerical Analysis--Ordinary Differential Equations
E2.2	Special Types of Problems for Ordinary Differential Equations	G.1.7	Numerical Analysis--Ordinary Differential Equations
E2.2.2	Initial Value Problems	G.1.7	Numerical Analysis--Ordinary Differential Equations-- <i>Initial Value Problems</i>
E2.2.3	Eigenproblems	G.1.7	Numerical Analysis--Ordinary Differential Equations
E2.3	Methods of Solving Ordinary Differential Equations	G.1.7	Numerical Analysis--Ordinary Differential Equations
E2.4	Types of ordinary differential equations	G.1.7	Numerical Analysis--Ordinary Differential Equations
E3	Partial differential equations	G.1.8	Numerical Analysis--Partial Differential Equations
E3.2	Special Types of Problems for Partial Differential Equations	G.1.8	Numerical Analysis--Partial Differential Equations
E3.2.3	Eigenproblems	G.1.8	Numerical Analysis--Partial Differential Equations
E3.4	Types of Partial Differential Operators and Equations	G.1.8	Numerical Analysis--Partial Differential Equations
E4	Integral Equations	G.1.9	Numerical Analysis--Integral Equations
F	Abstract mathematics	F.1	Computation by Abstract Devices
F1	Arithmetic and Number Theories		
F2	Set Theory; Combinatorial Mathematics and Algorithms		

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
F4	Geometry		
F5	Topology		
F6	Graph Theory	G.2.2	Discrete Mathematics--Graph Theory
F7	Analysis; Functions of Real and Complex Variables		
F8	Abstract Algebra and Abstract Spaces		
F8.1	Principles and Basic Concepts of Abstract Algebra		
F8.2	Groups and Semigroups		
F8.3	Rings and Ideals		
F8.6	Functional Analysis; Vector Spaces		
F8.7	Boolean Algebras; Algebra of logic	F.4.1	Mathematical Logic and Formal Languages--Mathematical Logic
G	Probability and Statistics	G.3	Probability and Statistics
G1	Principles and Basic Concepts of Probability and Statistics	G.3	Probability and Statistics
G1.6		G.3	Probability and Statistics
G2	Probability Distributions of Single Random Variables. Univariate Statistics	G.3	Probability and Statistics
G3	Probability Distributions of Single Random Variables. Multivariate Statistics	G.3	Probability and Statistics-- <i>Multivariate statistics</i>
G4	Functions (Transformations) of Random Variables (Random functions)	G.3	Probability and Statistics-- <i>Random number generation</i>
G5	Random (Stochastic change) Processes (Fields, Systems, Series)	G.3	Probability and Statistics-- <i>Stochastic processes</i>
G6	Random-Sample Statistics (Sampling theory, Selection theory, Sampling statistics)	G.3	Probability and Statistics
G6.4	Distribution Analysis; Ranking	G.3	Probability and Statistics
G7	Statistical Inference	G.3	Probability and Statistics-- <i>Statistical computing</i>
G7.2	Statistical Estimation (Enumerative statistics)	G.3	Probability and Statistics-- <i>Statistical computing</i>
G7.3	Tests of Statistical Hypotheses	G.3	Probability and Statistics-- <i>Statistical computing</i>
G7.5	Theory of Measurements; Experimental Data	G.3	Probability and Statistics
G7.6		G.3	Probability and Statistics
G8	Statistical Decision Theory (Bayesian Statistics)	G.3	Probability and Statistics
G9	Other Applications of Probability and Statistics	G.3	Probability and Statistics
H	Optimization; Mathematical Programming; Operations Research	G.1.6	Numerical Analysis--Optimization
H1	Unconstrained Optimization	G.1.6	Numerical Analysis--Optimization-- <i>Unconstrained optimization</i>
H2	Constrained Optimization; Mathematical Programming - General	G.1.6	Numerical Analysis--Optimization-- <i>Constrained optimization</i>

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H2.3	Methods of Mathematical Programming	G.1.6	Numerical Analysis--Optimization
H3	Linear Programming	G.1.6	Numerical Analysis--Optimization-- <i>Linear programming</i>
H4	Nonlinear Programming	G.1.6	Numerical Analysis--Optimization-- <i>Nonlinear programming</i>
H5	Dynamic Programming	G.1.6	Numerical Analysis--Optimization
H6			
H7	Mathematical Game Theory	G.1.6	Numerical Analysis--Optimization
H8	Queueing Theory	G.3	Probability and statistics-- <i>Queueing theory</i>
H9	Applications of Optimization Techniques	G.1.6	Numerical Analysis--Optimization
H9.1	Network and Resource Allocation Problems	G.1.6	Numerical Analysis--Optimization
H9.2	Production and Inventory Problems; Stock Control	G.1.6	Numerical Analysis--Optimization
H9.4	Traffic Problems	G.1.6	Numerical Analysis--Optimization
H9.7	Search and Pursuit Problems	G.1.6	Numerical Analysis--Optimization
I	Mathematical Communications; Information theory	E.4 / H.1.1	Coding and Information Theory / Models and Principles--Systems and Information Theory
I2	Signal theory; Processing (vd. U2.9.7)	H.1.1	Models and Principles--Systems and Information Theory
I2.5	Filtering (Spectrum Shaping) of Signals	H.1.1	Models and Principles--Systems and Information Theory
I2.9	Applications of Signal Theory	E.4	Coding and Information Theory
I3	Modulation and Demodulation Theory; Transmitters	H.1.1	Models and Principles--Systems and Information Theory
I4	Detection Theory; Receivers	H.1.1	Models and Principles--Systems and Information Theory
I5	Transmission Theory; Communication Channels	H.1.1	Models and Principles--Systems and Information Theory
I6	Coding and Decoding Theory	E.4	Coding and Information Theory
I7	Error Detecting and Correcting Codes	E.4	Coding and Information Theory-- <i>Error control codes</i>
I7.2		E.4	Coding and Information Theory
J	Mathematical Systems and Control Theory		
J1	Principles and Basic Concepts of Systems and Control		
J2	Properties and Attributes of Systems		
J2.2	Sensitivity of Systems		
J2.4	Reliability of Systems		
J2.5	Stability of Systems		
J3	Methods of Analyzing Optimizing and Synthesizing Systems		
J3.1	Simulation (Modeling) of Systems		
J3.2	Identification of Systems		
J3.3	Estimation of System Parameters		
J3.4	Analysis of Systems		
J3.5	Optimization of Systems; Optimal Control		

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J3.6	Design of Systems		
J3.7	Synthesis of Systems		
J3.8	Control of Systems		
J4	Types of Systems		
J4.1			
J4.1.2	Dynamic (Time Varying) Systems		
J4.2			
J4.2.1	Linear Systems		
J4.2.2	Nonlinear Systems		
J4.3			
J4.4.1	Continuous (Analog) Systems		
J4.4.2	Discontinuous (Discrete, Digital, Sampled-Data) Systems		
J4.5			
J4.5.2	Multivariable Systems		
J4.6			
J4.6.2	Distributed Parameter (Differential) Systems		
J4.7			
J4.7.2	Stochastic (probabilistic) systems		
J4.8			
J4.8.2	Adaptive (Learning) Systems; Adaptive Control		
J4.9	Other Types of Systems; Multilevel; Hierarchical		
K	Mathematical Logic and Switching Theory Automata	F.0	Theory of Computation--General
K1	Foundations of Mathematics; Foundations of Computer Science	F.0	Theory of Computation--General
K2	Mathematical Theory of Computation	F.0	Theory of Computation--General
K3	Mathematical (Symbolic) Logic Programming	F.4.1	Mathematical Logic and Formal Languages--Mathematical Logic
K4	Logical (Truth, Switching, Boolean) Functions	F.4.1	Mathematical Logic and Formal Languages--Mathematical Logic
K5	Combinational (Contact) and Iterative Switching Theory and Networks	F.4.1	Mathematical Logic and Formal Languages--Mathematical Logic
K6	Formal Languages and Grammars	F.4.3	Formal Languages
K6.2	Properties of Formal Languages	F.4	Mathematical Logic and Formal Languages
K7	Sequential Switching Theory and Networks; Mathematical Automata; Abstract Machines	F.1.1	Models of Computation
K7.4	Infinite Automata; Turing Machines	F.1.1	Models of Computation
K7.5	Finite Automata; Finite State Machines	F.1.1	Models of Computation
K9	Application of Mathematical Logic and Switching Theory	F4.1	Mathematical Logic and Formal Languages--Mathematical Logic

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K9.1	Analysis of programs; Schemata; Semantics; Correctness	F.3	Logics and Meanings of Programs
K9.2	Computational complexity: Machine-Based; Machine-Independent; Efficiency of Algorithms	F.1.3	Computation by Abstract Devices--Complexity Measures and Classes
K10			
K11			
L	Electronics: Computer Devices and Circuits	B.6	Logic Design
L1	Specific Devices and their Circuits	B.6	Logic Design
L1.1		B.0	Hardware--General
L1.2		B.0	Hardware--General
L1.3		B.6	Logic Design
L1.5	Integrated Circuits	B.7	Integrated circuits
L1.5.1		B.7.1	Integrated circuits--Types and Design Styles
L1.5.3	VLSI	B.7.1	Integrated circuits--Types and Design Styles--VLSI (<i>Very Large Scale Integration</i>)
L1.5.4		B.6	Logic Design
L1.6		B.6	Logic Design
L1.7		B.6	Logic Design
L1.8		B.0	Hardware--General
L2	Logic Circuits	B.6	Logic Design
L3	Waveform and Signal Generator	B.0	Hardware--General
L4	Signal Transforming Circuits	B.0	Hardware--General
L5	Converters; Coders; Decoders	B.0	Hardware--General
L6	Arithmetic Circuits	B.6	Logic Design
L6.3		B.6	Logic Design
L6.4		B.6	Logic Design
L6.5		B.6	Logic Design
M	Digital Storage Systems	B.3	Memory Structures
M2	Storage using Stationary Magnetic Media	B.3.2	Memory Structures--Design Styles--Mass storage (<i>e.g., magnetic, optical, RAID</i>)
M3	Storage using Moving Magnetic Media	B.3.2	Memory Structures--Design Styles--Mass storage (<i>e.g., magnetic, optical, RAID</i>)
M5	Semiconductor Storage: Static, Dynamic	B.3.1	Memory Structures--Semiconductor Memories-- <i>Dynamic memory (DRAM)</i> / Memory Structures--Semiconductor Memories-- <i>Static memory (SRAM)</i>
M8	Virtual Memories	B.3.2	Memory Structures--Design Styles-- <i>Virtual memory</i>
M9	Magnetic Bubble Memories	B.3	Memory Structures
M9.1		B.3	Memory Structures

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M9.2		B.3	Memory Structures
M10	Associative Memories	B.3.2	Memory Structures--Design Styles--Associative memories
N	Data Communication Systems	B.4	Input/Output and Data Communications
N1	Data Communication	B.4	Input/Output and Data Communications
N2	Data Carriers	B.4.1	Input/Output and Data Communications--Data Communications Devices
N3	Input Output Units: peripherals	B.4	Input/Output and Data Communications
N4	Man-Machine Communications; Computer graphics, CAD, CAM	I.3 / J.6	Computer Graphics / Computer-Aided Design
N5	Instrument-Machine Communication		
N6	Machine-Machine Communications; Computer Networks	C.2	Computer-Communication Networks
N7	Special Communication Systems	C.2	Computer-Communication Networks
N8			
O			
P	Digital Computer and Systems	C.0	Computer Systems Organization--General--System architectures
P1	Basic Principles	C.0	Computer Systems Organization--General--System architectures
P2	Computer Arithmetic	G.1.0	Numerical Analysis--General--Computer arithmetic
P3	Control of Digital Computers: Microprogramming	B.1	Computer Systems Organization--General--System architectures
P4	Computers and Systems Architecture	C.0	Computer Systems Organization--General--System architectures
P5	Computers and Systems Design and Productions	C.0	Computer Systems Organization--General--System architectures
P5.6	Computers and Systems Design and Productions: Reliability	C.4	Performance of Systems--Reliability, availability, and serviceability
P5.7		C.0	Computer Systems Organization--General--System architectures
P6	Special Types of Computers and Systems	C.3	Special-Purpose and Application-Based Systems
P7	Special Purpose Computers and Systems	C.3	Special-Purpose and Application-Based Systems
P8	General Purpose Computers	C.0	Computer Systems Organization--General--System architectures
P8.1	General Purpose Computers: Main-Frame	C.5.1	Computer System Implementation--Large and Medium ("Mainframe") Computers
P8.2			
P8.3	Minicomputers; Microprocessors	C.5.3	Computer System Implementation--Microcomputers--Microprocessors
P9	Practical Aspects of Computers and Systems: Fault detection	C.0	Computer Systems Organization--General--System architectures
P9.2			
P10	Parallel Processing	C.1.4	Processor Architectures--Parallel architectures
P11	Distributed Processing	C.1.4	Processor Architectures--Parallel Architectures--Distributed architectures
Q	Analog and Hybrid Computers and Systems	C.1.3	Processor Architectures--Other Architecture Styles--Analog computers

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Q1	Analog Computer Organization	C.1.3	Processor Architectures--Other Architecture Styles-- <i>Analog computers</i>
Q2	Analog Computers Components	C.1.3	Processor Architectures--Other Architecture Styles-- <i>Analog computers</i>
Q3	Analog Computers and Systems	C.1.3	Processor Architectures--Other Architecture Styles-- <i>Analog computers</i>
Q4	Application: Analog Simulation	C.1.3	Processor Architectures--Other Architecture Styles-- <i>Analog computers</i>
Q5	Hybrid Computer Organization	C.1.3	Processor Architectures--Other Architecture Styles
R	Programming and Data Processing (Systems Software)	D.0	Software--General
R0	Software Engineering	D.2	Software Engineering
R0.1	Documentation	D.2.7	Software Engineering--Distribution, Maintenance, and Enhancement-- <i>Documentation</i>
R0.2	Performance Evaluation	D.2.8	Software Engineering--Metrics-- <i>Performance Measures</i>
R0.3	Reliability, Quality Control	D.2.4	Software Engineering--Software/Program Verification-- <i>Reliability</i>
R0.4	Program Construction	D.2.2	Software Engineering--Design Tools and Techniques
R0.5	Costs	D.2.9	Software Engineering--Management-- <i>Cost estimation</i>
R0.6	Maintenance	D.2.9	Software Engineering--Management
R0CORBA		D.1.5CORBA	Programming Techniques--Object Oriented Programming
R0SMALLTALK-80		D.3.2SMALLTALK-80	Programming Languages--Language Classifications
R1	Principles and Basic Concepts of Programming	D.1	Programming Techniques
R1.1	Theory of Programming	D.1	Programming Techniques
R1.2	Algorithm Theory	F.2	Analysis of Algorithms and Problem Complexity
R1.3	Data Representation	E.2	Data Storage Representations
R1.4	Data Organization and Structure	E.1	Data Structures
R1.9	Decision Tables	D.2.2	Software Engineering--Design Tools and Techniques-- <i>Decision tables</i>
R2	Programming Languages	D.3	Programming Languages
R2.1	Principles and Basic Concepts	D.3	Programming Languages
R2.1.1	Theory	D.1	Programming Techniques
R2.1.7	Computer Oriented Languages; Machine Languages	D.3.2	Programming Languages--Language Classifications-- <i>Macro and Assembly Languages</i>
R2.1.8	Metaprogram Languages	D.3.2	Programming Languages--Language Classifications
R2.1.8.4	Assembly Languages	D.3.2	Programming Languages--Language Classifications-- <i>Macro and Assembly Languages</i>
R2.1.8.4-1802		D.3.2-1802	Programming Languages--Language Classifications-- <i>Macro and Assembly Languages</i>
R2.1.8.5AWK		D.3.2AWK	Programming Languages--Language Classifications
R2.1.8.5BCPL		D.3.2BCPL	Programming Languages--Language Classifications
R2.1.9	Computer-Independent Languages	D.3.2	Programming Languages--Language Classifications
R2.1.9.2	Procedure-Oriented (Algorithmic)	D.3.2	Programming Languages--Language Classifications

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R2.1.9.4	Systems-Oriented	D.3.2	Programming Languages--Language Classifications
R2.1.9.6	Symbolic Languages (Logic Programmng, PROLOG, PARLOG etc..)	D.3.2	Programming Languages--Language Classifications
R2.1.9.6LDL		F.4.1LDL	Mathematical Logic and Formal Languages--Mathematical Logic
R2.1.9.6PARLOG		D.3.2PARLOG	Programming Languages--Language Classifications
R2.1.9.6PROLOG		D.3.2PROLOG	Programming Languages--Language Classifications
R2.1.9.7	Algebraic Languages	D.3.2	Programming Languages--Language Classifications
R2.1.8.4		D.3.2ASSEMBLY	Programming Languages--Language Classifications
R2.2	ALGOL and other Scientific Languages	D.3.2	Programming Languages--Language Classifications
R2.2ALGOL		D.3.2ALGOL	Programming Languages--Language Classifications
R2.2ALGOLW		D.3.2ALGOW	Programming Languages--Language Classifications
R2.2ANSIC		D.3.2ANSIC	Programming Languages--Language Classifications
R2.2APL		D.3.2APL	Programming Languages--Language Classifications
R2.2BASEX		D.3.2BASEX	Programming Languages--Language Classifications
R2.2BASIC		D.3.2BASIC	Programming Languages--Language Classifications
R2.2C		D.3.2C	Programming Languages--Language Classifications
R2.2C++		D.3.2C++	Programming Languages--Language Classifications
R2.2CLU		D.3.2CLU	Programming Languages--Language Classifications
R2.2EIFFEL		D.3.2EIFFEL	Programming Languages--Language Classifications
R2.2FORTH		D.3.2FORTH	Programming Languages--Language Classifications
R2.2FORTRAN		D.3.2FORTRAN	Programming Languages--Language Classifications
R2.2FORTRAN77		D.3.2FORTRAN77	Programming Languages--Language Classifications
R2.2Fortran90		D.3.2FORTRAN90	Programming Languages--Language Classifications
R2.2GENSTAD		D.3.2GENSTAD	Programming Languages--Language Classifications
R2.2GW-BASIC		D.3.4GW-BASIC	Programming Languages--Processors
R2.2Java		D.3.2JAVA	Programming Languages--Language Classifications
R2.2LOGO		D.3.2LOGO	Programming Languages--Language Classifications
R2.2LUCID		D.3.2LUCID	Programming Languages--Language Classifications
R2.2Miranda		D.3.2Miranda	Programming Languages--Language Classifications
R2.2ML		D.3.2ML	Programming Languages--Language Classifications
R2.2MODULA		D.3.2MODULA	Programming Languages--Language Classifications
R2.2MODULA2		D.3.2MODULA2	Programming Languages--Language Classifications
R2.2MODULA-2		D.3.2MODULA-2	Programming Languages--Language Classifications
R2.2OBERON		D.3.2OBERON	Programming Languages--Language Classifications
R2.2OCCAM		D.3.2OCCAM	Programming Languages--Language Classifications

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R2.2OCCAM2		D.3.2OCCAM2	Programming Languages--Language Classifications
R2.2PASCAL		D.3.2PASCAL	Programming Languages--Language Classifications
R2.2Perl		D.4.9PERL	Operating Systems--Systems Programs and Utilities
R2.2PORTAL		D.3.2PORTAL	Programming Languages--Language Classifications
R2.2QUICKBASIC		D.3.2QUICKBASIC	Programming Languages--Language Classifications
R2.2SETL		D.3.2SETS	Programming Languages--Language Classifications
R2.2SML		D.3.2SML	Programming Languages--Language Classifications
R2.2Tcl		D.3.2CL	Programming Languages--Language Classifications
R2.2Z		D.3.2Z	Programming Languages--Language Classifications
R2.3	COBOL and other Commercial Languages	D.3.2COBOL	Programming Languages--Language Classifications
R2.3COBOL	COBOL and other commercial languages	D.3.2COBOL	Programming Languages--Language Classifications
R2.4	FORTRAN and other Higher Level Languages	D.3.2FORTRAN	Programming Languages--Language Classifications
R2.5	Symbol Manipulation; List Processing Languages	D.3.2	Programming Languages--Language Classifications
R2.5.1		D.1.6	Programming Techniques--Logic Programming
R2.5.9.6PROLOG		D.3.2PROLOG	Programming Languages--Language Classifications
R2.5LISP		D.3.2LISP	Programming Languages--Language Classifications
R2.5POSTSCRIPT		D.3.2POSTSCRIPT	Programming Languages--Language Classifications
R2.5SCHEME		D.3.2SCHEME	Programming Languages--Language Classifications
R2.5STARLOGO		D.3.2STARLOGO	Programming Languages--Language Classifications
R2.5T		D.3.2T	Programming Languages--Language Classifications
R2.6	Simulation Languages	D.3	Programming Languages
R2.6SLAMII		D.3.2LAMII	Programming Languages--Language Classifications
R2.8		D.3.2	Programming Languages--Language Classifications
R2.8.2.8		D.3.2	Programming Languages--Language Classifications
R2.8.2ADA		D.3.2ADA	Programming Languages--Language Classifications
R2.8.2ADA		D.3.2ADA	Programming Languages--Language Classifications
R2.8.8		D.3	Programming Languages
R2.8NPL		D.2.1NPL	Software Engineering--Requirements/Specifications
R2.9		D.3	Programming Languages
R2.9.3		D.3	Programming Languages
R2.9.3APT		D.1APT	Programming Techniques
R2.9.8	Special Purpose Engineering Languages	D.3	Programming Languages
R3	Program Preparation; Metaprograms	D.1	Programming Techniques
R3.2	Translation	D.3.4	Programming Languages--Processors-- <i>Translator writing systems and compiler generators</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
R3.3	Interpretative Programs (Interpreters)	D.3.4	Programming Languages--Processors-- <i>Interpreters</i>
R3.4	Assembly; Assembly Programs; Disassemblers	D.3.4	Programming Languages--Processors-- <i>Compilers</i>
R3.5	Compilation; Compiling Programs	D.3.4	Programming Languages--Processors-- <i>Compilers</i>
R3.5.5	Compilers for Specific Languages	D.3.4	Programming Languages--Processors-- <i>Compilers</i>
R3.5.5.9		D.3.4	Programming Languages--Processors-- <i>Compilers</i>
R3.6	Generating Programs	D.3.4	Programming Languages--Processors-- <i>Code generation</i>
R3.7	Reprogramming; Recompilation; Emulation; Simulation	D.3.4	Programming Languages--Processors-- <i>Compilers</i>
R4	Program and Storage Management	D.4.2	Operating Systems--Storage Management
R4.3	Program Diagnostics; Testing; Debugging	D.2.5	Software Engineering--Testing and Debugging
R4.5	Program Simplification	D.4.2	Operating Systems--Storage Management
R4.7	Storage Allocation	D.4.2	Operating Systems--Storage Management-- <i>Allocation/deallocation strategies</i>
R6	Program Execution; Data processing	D.4.1	Operating Systems--Process Management
R6.1	Principles and Basic Concepts	D.4.1	Operating Systems--Process Management
R6.2	Operating Systems; Executive and Monitor Programs	D.4	Operating Systems
R6.2.1	Principles and Basic Concepts	D.4	Operating Systems
R6.2.5	Specifying Operating Systems	D.4	Operating Systems
R6.2.5CAP		D.4.0CAP	Operating Systems
R6.2.5LINUX		D.4.0LINUX	Operating Systems
R6.2.5OBERON		D.4.0OBERON	Operating Systems
R6.2.5PICK		D.4.0PICK	Operating Systems
R6.2.5PULSE		D.4.0PULSE	Operating Systems
R6.2.5UNIX		D.4.0UNIX	Operating Systems
R6.2.5UNIX+		D.4.0UNIX+	Operating Systems
R6.2.5UNIXV		D.4UNIXV	Operating Systems
R6.2.5XINU		D.4.0XINU	Operating Systems
R6.2.8UNIX	Executive and Supervisory Programs	D.4.0UNIX	Operating Systems
R6.4.2	Sequential Processing	D.1.4	Programming Techniques--Concurrent Programming--Sequential Programming
R6.4.3	Parallel Processing; Concurrency	D.1.3	Programming Techniques--Concurrent Programming-- <i>Parallel programming</i>
R6.4MINIX		D.4.0MINIX	Operating Systems
R6.5	Real-Time and Online Programming	D.4.7	Operating Systems--Organization and Design-- <i>Real-time systems and embedded systems</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
R6.6	Multiprogramming	D.4.1	Operating Systems--Process Management-- <i>Multiprocessing/multiprogramming/multitasking</i>
R6.7	Time sharing; Multiple access; Simultaneous Operation	D.4.3	Operating Systems--File Systems Management-- <i>Access methods</i>
R6.7.6	Time Sharing Languages and Programming Systems	D.4	Operating Systems
R6.8	Multiprocessing	D.4.1	Operating Systems--Process Management-- <i>Multiprocessing/multiprogramming/multitasking</i>
R7	Software for Specific Computers	D.0	Software--General
R71-2-3		H.4.1-1-2-3	Information Systems Applications--Office Automation-- <i>Spreadsheets</i>
R71802		D.3.2-1802	Programming Languages--Language Classification-- <i>Macro and Assembly Languages</i>
R73D		I.3-3D	Computer Graphics
R74WORD		H.4.1WORD	Information Systems Applications--Office Automation-- <i>Word processing</i>
R768000		C.5.3-68000	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R780286		C.5.3-8086-88	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R780386		C.5.3-80386	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R780386-80286		C.5.3-80386-80286	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R78080A		C.5.3-8080A	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R78086-88		C.5.3-8086-88	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7AMIGA		C.5.3AMIGA	Computer System Implementation-Microcomputers
R7AMIGADOS		D.4AMIGADOS	Operating Systems
R7APPLE		C.5.3APPLE	Computer System Implementation--Microcomputers
R7APPLEII		C.5.3APPLEII	Computer System Implementation--Microcomputers
R7APPLEWORKS		H.4.1APPLEWORKS	Information Systems Applications--Office Automation-- <i>Spreadsheets</i>
R7AUTOCAD		J.6AUTOCAD	Computer-Aided Engineering-- <i>Computer-aided design (CAD)</i>
R7AUTOCAD12		J.6AUTOCAD12	Computer-Aided Engineering-- <i>Computer-aided design (CAD)</i>
R7CM		D.4.1CM	Operating Systems--Process Management
R7COMMODORE		C.5.3COMMODORE	Computer System Implementation--Microcomputers
R7COMMODORE64		C.5.3COMMODORE	Computer System Implementation--Microcomputers
R7CP-M		D.4.0CP-M	Operating Systems

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
R7CP-M80		D.4.0CP-M80	Operating Systems
R7CP-M-86		D.4.0CP-M-86	Operating Systems
R7D3D		I.3-3D	Computer Graphics
R7DOS		D.4.0DOS	Operating Systems
R7DOS4		D.4.0DOS4	Operating Systems
R7EGA		I.3.2EGA	Computer Graphics--Graphics Systems
R7EGA-VGA		I.3.2EGA-VGA	Computer Graphics--Graphics Systems
R7Emacs		I.7.1Emacs	Document and Text Processing--Document and Text Editing
R7EXCEL		H.4.1EXCEL	Information Systems Applications--Office Automation-- <i>Spreadsheets</i>
R7GraphicJava		D.3.2JGraphicJAVA	Programing Languages--Languages Classification
R7HTML		I.7.2HTML	Document and Text Processing--Document Preparation-- <i>Markup Languages</i>
R7HYPERCARD		D.2.6HYPERCARD	Software Engineering--Programming Environments
R7I486		C.5.3I486	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7IAPX86		C.5.3IAPX86	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7IBM		C.5.3IBM	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7IBM/370		C.5.1IBM/370	Computer System Implementation--Large and Medium ("Mainframe") Computers
R7IBM360-370		C.5.1360/370	Computer System Implementation--Large and Medium ("Mainframe") Computers
R7IBMPC		C.5.3IBMPC	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7IBMPCJR		C.5.3IBMPCJR	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7INTEL		C.5.3INTEL	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7INTEL432		C.5.3INTEL432	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7INTEL80386		C.5.3INTEL80386	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7INTEL8086-8088		C.5.3INTEL8086-8088	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
R7INTEL8088		C.5.3INTEL8088	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7INTELI8086		C.5.3INTEL8086-8088	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7Java		D.3.2JAVA	Programming Languages--Languages Classifications
R7LOTUS1-2-3		H.4.1LOTUS1-2-3	Information Systems Applications--Office Automation-- <i>Spreadsheets</i>
R7MAC		D.4.0	Operating Systems
R7MICROSOFTWORD		H.4.1WORD	Information Systems Applications--Office Automation-- <i>Word processing</i>
R7MOTOROLA68000		C.5.3MOTOROLA68000	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7MOTOROLA68020		C.5.3MOTOROLA6820	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7MPW		D.1MPW	Programming Techniques
R7MS-DOS		D.4DOS	Operating Systems
R7MULTIPLAN		G.4MULTIPLAN	Mathematical Software
R7NETWARE		C.2.5NETWARE	Computer-Communication Networks-- Local and Wide-Area Networks
R7NSC800		C.5.3NSC800	Computer System Implementation--Microcomputers-- <i>Microprocessors</i>
R7OBERON		D.4.0OBERON	Operating Systems
R7OS-2		D.4OS-2	Operating Systems
R7PC		C.5.3PC	Computer System Implementation--Microcomputers-- <i>Personal computers</i>
R7PCDOS		D.4.0DOS	Operating Systems
R7PDP-11		D.3.2PDP-11	Programming Languages--Languages Classifications
R7SEM		I.2.1SEM	Applications and Expert Systems
R7SMALLTALK		D.3.2SMALLTALK	Programming Languages--Languages Classifications
R7SMALLTALK-80		D.3.2SMALLTALK	Programming Languages--Languages Classifications
R7SYMPHONY		K.8.1SYMPHONY	Personal Computing--Application Packages
R7TKSOLVER		D.2.2TKSOLVER	Software Engineering--Design Tools and Techniques
R7UCSD P		C.5.3	Computer System Implementation--Microcomputers
R7UP		C.5.3	Computer System Implementation--Microcomputers
R7VisualBasic		D.2.2VISUALBASIC	Software Engineering--Design Tools and Techniques
R7VisualBasic4		D.2.2VISUALBASIC	Software Engineering--Design Tools and Techniques
R7visualC++		D.2.2VISUALC++	Software Engineering--Design Tools and Techniques
R7VRML		I.3.7VRML	Computer-Graphics--Three-Dimensional Graphics and Realism

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
R7WINDOWS		D.4.0WINDOWS	Operating Systems
R7WINDOWS95		D.4.0WINDOWS95	Operating Systems
R7WindowsNT		D.4.0WINDOWSNT	Operating Systems
R7WindowsNT4		D.4.0WINDOWSNT	Operating Systems
R7Z8000		C.1.1	Processor Architectures-- Single Data Stream Architectures
R8	Programming Methods	D.1	Programming Techniques
R8.3	Sorting	E.5	Files--Sorting and Searching
R8.4	Programming of Files and Data Management Systems; Databases	H.2	Database Management
R8.4CLIPPER		D.3.4CLIPPER	Programming Languages--Processors
R8.4DB2		H.2.3DBII	Database management
R8.4DBASEII		H.2.3DBII	Database management
R8.4DBASEIII		H.2.3DBIII	Database management
R8.4DBASEIIIPLUS		H.2.3DBIIIPLUS	Database management
R8.4FOCUS		H.2F.3OCUS	Database management
R8.4INGRES		H.2INGRES	Database management
R8.4ODMG2.0		H.2ODMG2.0	Database management
R8.4PARADOX		H.2.3PARADOX	Database management
R8.4SQL		H.2.3SQL	Database management--Languages-- <i>Query Languages</i>
R8.5	Symbol Manipulation; Symbol Programming; List Processing; String Manipulation	D.1	Programming Techniques
R8.6	Graphical Programming	H.2	Database management
S	Programming; Programs; Algorithms and Simulations for Specific Applications	J.2	Physical Sciences and Engineering--Engineering
S1		J.2	Physical Sciences and Engineering-- <i>Mathematics and statistics</i>
S2		F.2	Analysis of Algorithms and Problem Complexity
T	Mathematical Software	G.4	Mathematical Software
U	Artificial intelligence; Expert Systems	I.2.1	Artificial intelligence--Applications and Expert Systems
U1	General Aspects of Artificial Intelligence	I.2.0	Artificial Intelligence--General
U2	Pattern Recognition	I.5	Pattern Recognition
U2.1.2	Statistical Pattern Recognition	I.5.1	Pattern Recognition--Models-- <i>Statistical</i>
U2.3	Methods of Pattern recognition	I.5	Pattern Recognition
U2.3.1	Pattern Analysis	I.5.2	Pattern Recognition--Design Methodology-- <i>Pattern Analysis</i>
U2.3.3	Pattern Classification	I.5.2	Pattern Recognition--Design Methodology-- <i>Classifier design and evaluation</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
U.2.3.5	Pattern Scanning	I.7.5	Document and Text Processing--Document Capture--Scanning
U2.5.1	Spatial Characters; Visual Pattern Recognition; Computer Vision	I.5.4	Pattern Recognition--Applications-- <i>Computer Vision</i>
U.2.9.7	Picture Processing; Image Processing	I.4	Image Processing and Computer Vision
U2.9	Applications of Pattern Recognition	I.5.4	Pattern Recognition--Applications
U3	Speech Recognition and Synthesis	I.2.7	Artificial Intelligence--Natural Language Processing-- <i>Speech recognition and synthesis</i>
U3.3	Methods of Speech Analysis	I.2.7	Artificial Intelligence--Natural Language Processing-- <i>Speech recognition and synthesis</i>
U3.5	Speech Recognition	I.2.7	Artificial Intelligence--Natural Language Processing-- <i>Speech recognition and synthesis</i>
U3.6	Speech Synthesis	I.2.7	Artificial Intelligence--Natural Language Processing-- <i>Speech recognition and synthesis</i>
U4	Bionics (Biotechnology; Biological Cybernetic); Computer Vision; Robotics	J.3 / I.2.9	Life and Medical Sciences / Artificial Intelligence--Robotics
U4.5	Neurocybernetics	J.2	Physical Sciences and Engineering
U5	Learning and Adaptation; Machine Intelligence	I.2.6	Artificial Intelligence--Learning
U5.6		I.2	Artificial Intelligence
U5.8	Machine Capable of Learning and Adaptation	I.2.6	Artificial Intelligence--Learning
U5.8.2	Self-Organizing Systems; Perceptrons	I.2.6	Artificial Intelligence--Learning-- <i>Connectionism and neural nets</i>
U5.9.1	Game Playing	I.2.1	Artificial Intelligence--Applications and Expert Systems-- <i>Games</i>
U6	Thinking	I.2.0	Artificial Intelligence--General
U6.8	Mechanization of Thought Processes	I.2.0	Artificial Intelligence--General
U7	Theorem Proving	I.2.3	Artificial Intelligence--Deduction and Theorem Proving
U7.7	Algorithms and Programs for Theorem proving	I.2.3	Artificial Intelligence--Deduction and Theorem Proving
U8	Problem Solving	I.2.8	Artificial Intelligence--Problem Solving, Control Methods, and Search
U8.1	Principles and Basic Concepts of Problem Solving	I.2.8	Artificial Intelligence--Problem Solving, Control Methods, and Search
U8.3.1	Heuristic Programming	I.2.8	Artificial Intelligence--Problem Solving, Control Methods, and Search-- <i>Heuristic method</i>
U9	Game Playing	I.2.1	Artificial Intelligence--Applications and Expert Systems-- <i>Games</i>
V	Computational Linguistics and Computer Applications in the Liberal Arts	I.2.7	Artificial Intelligence--Natural Language Processing
V1	General Linguistics	I.2.7	Artificial Intelligence--Natural Language Processing
V1.1	Principles and Basic Concepts of Linguistics	I.2.7	Artificial Intelligence--Natural Language Processing
V1.2	Properties of Natural Languages	I.2.7	Artificial Intelligence--Natural Language Processing
V1.3	Analysis of Natural Languages	I.2.7	Artificial Intelligence--Natural Language Processing

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
V1.5	Grammar of Natural Languages	I.2.7	Artificial Intelligence--Natural Language Processing
V1.6	Semantics	I.2.7	Artificial Intelligence--Natural Language Processing
V1.9	Specific Natural Languages	I.2.7	Artificial Intelligence--Natural Language Processing
V2	Computational Linguistics; Mechanical Translation	I.2.7	Artificial Intelligence--Natural Language Processing-- <i>Machine Translation</i>
V2.1	Principles and Basic Concept of Computational Linguistics	I.2.7	Artificial Intelligence--Natural Language Processing
V2.3.1	Syntax Analysis; Parsing	I.2.7	Artificial Intelligence--Natural Language Processing-- <i>Language parsing and understanding</i>
V2.3.3	Grammar Coding	I.2.7	Artificial Intelligence--Natural Language Processing
V2.3.5	Semantic Analysis	I.2.7	Artificial Intelligence--Natural Language Processing
V2.5	Textual Data Processing	I.2.7	Artificial Intelligence--Natural Language Processing
V2.6	Content Analysis	I.2.7	Artificial Intelligence--Natural Language Processing
V2.7	Mechanical Translation	I.2.7	Artificial Intelligence--Natural Language Processing-- <i>Machine Translation</i>
V3	Human Communication Patterns; Man-Computer Interfaces	H.1.2	Models and Principles--User/Machine Systems-- <i>Human information processing</i>
V3.4	Modes of Human Communication	H.1.2	Models and Principles--User/Machine Systems-- <i>Human information processing</i>
V3.5	Technology Transfer; Information Transfer (Exchange)	H.1.2	Models and Principles--User/Machine Systems-- <i>Human information processing</i>
V3.7	Communication in Organizations	H.1.2	Models and Principles--User/Machine Systems-- <i>Human information processing</i>
V4	Documentation	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing
V4.1	Principles and Basic Concept of Documentation	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing
V4.4	Characterization of Documents	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing
V4.4.2	Descriptors; Uniterms; Coordinate Indexes	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing--Indexing methods
V4.4.3	Subject Indexes; Indexing	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing--Indexing methods
V4.4.4	Keywords; Contextual Phrases	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing-- <i>Linguistic processing</i>
V4.4.5	Classification	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing-- <i>Linguistic processing</i>
V4.4.6	Citations; References	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing-- <i>Linguistic processing</i>
V4.4.7	Thesauri	H.3.1	Information Storage and Retrieval--Content Analysis and Indexing-- <i>Thesauruses</i>
V4.5	Representation of Documents	H.3.6	Information Storage and Retrieval--Library Automation

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
V5	Information storage; Retrieval and Dissemination; Information Management; Question Answering Systems; Libraries	H.3 / H.3.4 / H.3.6	Information Storage and Retrieval / Systems and Software-- <i>Question-answering (fact retrieval) systems / Information Storage and Retrieval--Library Automation</i>
V5.1	Principles and Basic Concepts of Information Storage and Retrieval	H.3	Information Storage and Retrieval
V5.2	Techniques of Information Storage and Retrieval	H.3	Information Storage and Retrieval
V5.4	Types of Information Storage, Retrieval and Dissemination Systems	H.3	Information Storage and Retrieval
V5.6	Photographic Information Storage and Retrieval	H.3	Information Storage and Retrieval
V5.8	Mechanized Information Storage and Retrieval	H.3	Information Storage and Retrieval
V5.9	Applications of Information Storage and Retrieval	H.3	Information Storage and Retrieval
V5.9.2	Information Dissemination	H.3.4	Information Storage and Retrieval--Systems and Software-- <i>Current awareness systems (Selective Dissemination of Information--SDI)</i>
V5.9.3	Question Answering	H.3.4	Information Storage and Retrieval--Systems and Software-- <i>Question-answering (fact retrieval) systems</i>
V5.9.4	Libraries and Information Centers	H.3.6	Information Storage and Retrieval--Library Automation
V6	Text preparation; Typesetting	I.7.2	Document and Text Processing--Document Preparation
V7	Computer Applications in the Behavioral and Social Sciences	J.4	Social and behavioral science
V7.1	Psychology and Psychiatry; Cognitive Psychology	J.4	Social and behavioral sciences-- <i>Psychology</i>
V7.2	Sociology	J.4	Social and behavioral sciences-- <i>Sociology</i>
V7.3	Anthropology	J.4	Social and behavioral sciences-- <i>Sociology</i>
V7.7	Economics	J.4	Social and behavioral sciences-- <i>Economics</i>
V8	Computer Applications in the Humanities	J.5	Arts and humanities
V9	Computer Applications in the Fine Arts	J.5	Arts and humanities-- <i>Fine arts</i>
V9.6	Music	J.5	Arts and humanities--Music
W	Computers in Biomedical and Life Science	J.3	Life and Medical Sciences
W1	Biomedical Applications of Computers	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W1.1	Biomedical Cybernetics and Automation	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W1.2	Biomedical Electronics	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W1.3	Biomedical Simulation and Modeling	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W2	Computer Applications in Medical Research	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W2.3	Methods and Techniques of Medical Research	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W2.4		J.3	Life and Medical Sciences
W.2.4.1	Brain and Nervous System; Neurophysiology	J.3	Life and Medical Sciences-- <i>Health</i>
W2.4.2	Hearth and Circulatory (Cardiovascular)	J.3	Life and Medical Sciences-- <i>Health</i>
W2.4.3	Respiratory Systems; Respiration	J.3	Life and Medical Sciences-- <i>Health</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
W2.4.6	Sensory Mechanism and Functions; Speech	J.3	Life and Medical Sciences-- <i>Health</i>
W2.4.6.1	Eyes; Vision; Computer Vision	J.3	Life and Medical Sciences-- <i>Health</i>
W2.4.6.2	Ears	J.3	Life and Medical Sciences-- <i>Health</i>
W2.4.7	Bones and Muscolature; Spine	J.3	Life and Medical Sciences-- <i>Health</i>
W2.4.9	Metabolism	J.3	Life and Medical Sciences-- <i>Health</i>
W2.6.1	Radiology	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W2.6.6	Psycophysiology	J.3	Life and Medical Sciences
W3	Computer Applications in Clinical Medicine	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W4	Computer Applications in Prosthetics	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W5	Computer Applications in Pharmacy and Pharmaceuticals	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W6	Computer Applications in Nutrition and Public Health	J.3	Life and Medical Sciences-- <i>Medical information systems</i>
W7	Computer Applications in Biological Science and Engineering	J.3	Life and Medical Sciences-- <i>Biology and genetics</i>
W7.1	Biophysics	J.3	Life and Medical Sciences
W7.2	Biochemistry	J.3	Life and Medical Sciences
W7.3	Genetics	J.3	Life and Medical Sciences-- <i>Biology and genetics</i>
W7.7	Ecology	J.3	Life and Medical Sciences
W7.9	Zoology	J.3	Life and Medical Sciences
X	Computers in Physical Sciences and Engineering	J.2	Physical sciences and engineering
X1	Physics - General	J.2	Physical sciences and engineering-- <i>Physics</i>
X1.1	Mathematical Physics - General	J.2	Physical sciences and engineering-- <i>Physics</i>
X1.3	Statistical Mechanics	J.2	Physical sciences and engineering-- <i>Mathematics and statistics</i>
X1.5	Wave Mechanics; Quantum Mechanics	J.2	Physical sciences and engineering-- <i>Physics</i>
X1.7	Solid State Physics	J.2	Physical sciences and engineering-- <i>Physics</i>
X1.9	Sound and Acoustics	J.2	Physical sciences and engineering-- <i>Physics</i>
X2	Electrical and Magnetic Science and Engineering; Electronics	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.1	Electromagnetic	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.1.3	Electromagnetic Waves in Free Spaces	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.1.4	Guided Electromagnetic Waves	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.1.5		J.2	Physical sciences and engineering
X2.1.6	Microwave Systems	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.1.8	Radiation; Antennas	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.2	Physical Electronics	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.3	Plasmas	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.4	Electrical and Magnetic Properties of Materials	J.2	Physical sciences and engineering-- <i>Physics</i>
X2.5	Electronic Devices	J.2	Physical sciences and engineering-- <i>Electronics</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
X2.6	Circuit Theory and Design; Network Analysis	J.2	Physical sciences and engineering-- <i>Electronics</i>
X2.7	Basic Circuits	J.2	Physical sciences and engineering-- <i>Electronics</i>
X2.8	Electrical Power and Machines (Applied Electricity)	J.2	Physical sciences and engineering-- <i>Electronics</i>
X2.9	Applied Electronics; Electronics Systems	J.2	Physical sciences and engineering-- <i>Electronics</i>
X2.9.1	Electronic Systems - General	J.2	Physical sciences and engineering-- <i>Electronics</i>
X2.9.2	Communications Systems; Radar	J.2	Physical sciences and engineering-- <i>Electronics</i>
X2.9.4	Instrumentation	J.2	Physical sciences and engineering
X3	Optical Science and Engineering	J.2	Physical Sciences and Engineering-- <i>Engineering</i>
X3.4	Optical Properties of Materials	J.2	Physical sciences and engineering-- <i>Electronics</i>
X3.5	Spectroscopy	J.2	Physical sciences and engineering-- <i>Electronics</i>
X3.6		J.2	Physical sciences and engineering-- <i>Electronics</i>
X3.7	Optical Systems	J.2	Physical sciences and engineering
X3.9	Photography	J.2	Physical sciences and engineering
X4	Mechanical Science and Engineering; Civil Engineering	J.2	Physical Sciences and Engineering-- <i>Engineering</i>
X4.1	Mechanical Engineering - General	J.2	Physical Sciences and Engineering-- <i>Engineering</i>
X4.2	Classical Mechanics	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.3	Mechanics of Fluids (including Aerodynamics)	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.3.3	Methods and Techniques of Fluid Mechanics	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.3.5	Flow of Fluids	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.3.7	Waves in Fluids	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.3.8	Hydromechanics	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.4	Mechanics of Solids	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.4.3	Methods and Techniques of Solid Mechanics	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.4.5	Deformations of Solids	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.4.7	Waves in Solids	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.5	Mechanics of Structures	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.5.3	Methods of Structural Analysis	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.5.7	Vibration of Structures	J.2	Physical sciences and engineering-- <i>Physics</i>
X4.6	Civil Engineering and Construction	J.2	Physical Sciences and Engineering-- <i>Engineering</i>
X4.9		J.2	Physical sciences and engineering
X5	Thermodynamics and Heat Engineering	J.2	Physical sciences and engineering-- <i>Physics</i>
X5.1	Thermodynamics	J.2	Physical sciences and engineering-- <i>Physics</i>
X5.3	Heat Transfer	J.2	Physical sciences and engineering-- <i>Physics</i>
X5.5	Heating and Cooling	J.2	Physical sciences and engineering-- <i>Physics</i>
X6	High Energy Physics; Nuclear Science and Engineering	J.2	Physical sciences and engineering-- <i>Physics</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
X6.2	Accelerators	J.2	Physical sciences and engineering-- <i>Physics</i>
X6.4	Nuclear Reactors	J.2	Physical sciences and engineering-- <i>Physics</i>
X6.7	Nuclear Instruments and Measurements	J.2	Physical sciences and engineering-- <i>Physics</i>
X7	Chemical Science and Engineering; Metallurgy	J.2	Physical sciences and engineering-- <i>Chemistry</i>
X7.2	Chemical Properties of Materials	J.2	Physical sciences and engineering-- <i>Chemistry</i>
X7.3	Chemical Reactions	J.2	Physical sciences and engineering-- <i>Chemistry</i>
X7.4	Organic Chemistry	J.2	Physical sciences and engineering-- <i>Chemistry</i>
X7.5	Chemical Engineering; Chemical Processes	J.2	Physical sciences and engineering-- <i>Chemistry</i>
X7.9		J.2	Physical sciences and engineering
X8	Earth and Space Sciences	J.2	Physical sciences and engineering-- <i>Earth and atmospheric sciences</i>
X8.1.2	Cartography	I.2.1	Artificial Intelligence--Applications and Expert Systems
X8.1.5	Terrain	I.2.1	Artificial Intelligence--Applications and Expert Systems
X8.1.8	Hydrography	I.2.1	Artificial Intelligence--Applications and Expert Systems
X8.2	Geology	J.2	Physical sciences and engineering-- <i>Earth and atmospheric sciences</i>
X8.2.4	Seismology	J.2	Physical sciences and engineering-- <i>Earth and atmospheric sciences</i>
X8.3	Geophysics and Geochemistry	J.2	Physical sciences and engineering-- <i>Physics / Chemistry</i>
X8.4	Oceanography	J.2	Physical sciences and engineering
X8.5	Metereology; Aerology	J.2	Physical sciences and engineering-- <i>Earth and atmospheric sciences</i>
X8.5.9	Weather Prediction	J.2	Physical sciences and engineering-- <i>Earth and atmospheric sciences</i>
X8.6	Atmospheric Physics	J.2	Physical sciences and engineering-- <i>Earth and atmospheric sciences</i>
X8.7	Space Physics	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X8.8	Astronomy; Celestial Mechanics	J.2	Physical sciences and engineering-- <i>Astronomy</i>
X9	Transportation, Military and Space Engineering	J.7	Computers in other systems-- <i>Military</i>
X9.1	Engines	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.5	Aeronautical Engineering	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.8	Rocket and Missile Engineering	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9	Space Engineering	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9.2	Space vehicles; Space Systems	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9.4	Space Electronics	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9.4.3	Guidance Systems	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9.4.5	Navigation Systems; Celestial Guidance	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9.5	Space Flight; Space Operations	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9.5.5	Flight Control	J.2	Physical sciences and engineering-- <i>Aerospace</i>
X9.9.8	Space Data Processing	J.2	Physical sciences and engineering-- <i>Aerospace</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
Y	Computer Applications in Control and Industrial Engineering; Automation; Cybernetics; Robotics	J.7	Computers in other systems--Industrial control
Y1	Principles and Concept of Control Systems; Automation and Cybernetics	J.7	Computers in other Systems-- <i>Command and control</i>
Y3	Analysis Design and Synthesis of Control Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y3.5	Optimization of Control Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y4	Types of Control Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y4.3	Closed Loop (Feedback) Control Systems; Servo Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y4.4	Continuous - Discontinuous Control Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y4.6	Remote Control Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y4.8	Adaptive (Learning) Control Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y6	Control Systems Components	J.7	Computers in other Systems-- <i>Command and control</i>
Y7	Instrumentation for Control Systems	J.7	Computers in other Systems-- <i>Command and control</i>
Y8	Computers and Control	J.7	Computers in other Systems-- <i>Command and control</i>
Y9	Control Systems by Applications	J.7	Computers in other Systems-- <i>Command and control</i>
Y9.2	Process Control	J.7	Computers in other Systems-- <i>Process control</i>
Y9.3	Numerical Control	J.7	Computers in other Systems-- <i>Command and control</i>
Z	Computer Applications in Management Government and Education	K.6	Management of Computing and Information Systems
Z1	Management Science and Engineering	K.6	Management of Computing and Information Systems
Z1.1	Economics	K.6	Management of Computing and Information Systems-- <i>Economics</i>
Z1.2	Theory of Management	K.6	Management of Computing and Information Systems
Z1.2.3	Management Analysis	K.6	Management of Computing and Information Systems-- <i>Systems analysis and design</i>
Z1.3	Management Decision Making; Decision Support Systems	K.6	Management of Computing and Information Systems
Z1.4	Management Information and Communication Systems; Information Systems	K.6	Management of Computing and Information Systems
Z1.5	Management planning; Scheduling and Control Systems; Automated Production Management	K.6	Management of Computing and Information Systems
Z1.5.1	Budget Planning and Control	K.6	Management of Computing and Information Systems-- <i>Economics</i>
Z1.5.2	Project (Network) Planning; Scheduling and Control	K.6.1	Management of Computing and Information Systems--Project and People Management
Z1.5.4	Production Planning; Scheduling and Control	K.6.1	Management of Computing and Information Systems--Project and People Management
Z1.5.5	Quality Control and Inspection	K.6.4	Management of Computing and Information Systems--System Management-- <i>Quality assurance</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
Z1.5.6	Inventory (Stock) Control	K.6	Management of Computing and Information Systems
Z1.6	Sales Management	K.6	Management of Computing and Information Systems
Z1.8	Management of Research and Development; New Product	K.6.1	Management of Computing and Information Systems--Project and People Management-- <i>Systems development</i>
Z1.9	Other aspects of Office and Plant Management	K.6	Management of Computing and Information Systems
Z2	Administrative (Business) Data processing (ADP, EDP); Office Automation	J.1 / H.4.1	Administrative data processing--Business / Information Systems Applications--Office Automation
Z2.1	General Considerations for Business Data Processing	J.1	Administrative data processing--Business
Z2.7	Auditing and Financial Analysis	J.1	Administrative data processing--Financial
Z3	Computer Applications in the Management of Service Industries	J.1	Administrative data processing--Financial
Z3.1	Financial Services	J.1	Administrative data processing--Financial
Z4	Computer Applications in Transportations Management and Public Utilities	K.4	Public Policy Issues
Z4.1.3	Scheduling of Transportation	K.4	Public Policy Issues
Z4.2	Transportation by Road	K.4	Public Policy Issues
Z4.3	Transportation by Rail	K.4	Public Policy Issues
Z4.8	Public Utilities	K.4	Public Policy Issues
Z4.8.1	Electricity	K.4	Public Policy Issues
Z5	Computer Applications in the Management of other Industries	J.7	Computers in Other Systems-- <i>Industrial control</i>
Z5.1	Natural Resources	J.0	Computer Applications--General
Z5.2	Agriculture and Agriculture Service	J.0	Computer Applications--General
Z5.5	Manufacturing (Nondurable Goods)	J.0	Computer Applications--General
Z5.5.2	Chemicals and Chemical Products	J.0	Computer Applications--General
Z5.6	Construction	J.0	Computer Applications--General
Z5.8	Trade	J.0	Computer Applications--General
Z6	Computer Applications in Military Management	J.1	Administrative data processing-- <i>Military</i>
Z7	Computer Applications in Government Politics and Law	J.1	Administrative data processing-- <i>Government</i>
Z7.2	State Government	J.1	Administrative data processing-- <i>Government</i>
Z7.3	Local and Municipal Government	J.1	Administrative data processing-- <i>Government</i>
Z7.4	Politics	J.1	Administrative data processing-- <i>Government</i>
Z7.5	Political Science	J.1	Administrative data processing-- <i>Government</i>
Z7.6	Law	J.1	Administrative data processing-- <i>Law</i>
Z7.8	Computer Applications in Hospital and Health Service Management	K.4.1	Public Policy Issues-- <i>Computer-related health issues</i>

Classi CCC	Descrittori CCC	Classi ACM-CCS	Descrittori ACM-CCS
Z9	Computer Applications in Educating (Educational Data Processing)	K.3.1	Computers and Education--Computer Uses in Education
Z9.3	Computer Use at Various Educational Levels (including Computer Centers in Educational Institutions)	K.3.1	Computers and Education--Computer Uses in Education
Z9.6	Computer Use in Teaching	K.3.1	Computers and Education--Computer Uses in Education
Z9.6.1	Programmed Instruction; Teaching Machines	K.3.1	Computers and Education--Computer Uses in Education
Z9.6.2	Computer-Aided Teaching (Computer Assisted Instruction)	K.3.1	Computers and Education--Computer Uses in Education-- <i>Computer-assisted instruction (CAI)</i>
Z9.6.4	Teaching about Information Processing	K.3.1	Computers and Education--Computer Uses in Education