

1979 - 2020

Core words

space set case
number linear
property
problem
solution time
function
matrix order
algorithm
point

1979-1981 topic 4

technique
decision cost
solving process
dynamic computational
procedure mathematical
program

1982-1984 topic 1

process type program
computation
search
procedure transformation
technique decision simple

1985-1987 topic 4

dimensional
control
edge controller image
object technique adaptive
dynamic

1991-1993 topic 14

node log path
neural learning
network training
search size parallel

1994-1996 topic 16

minimum path
filter
vertex size
log

1997-1999 topic 13

xprove theorem
vertex edge
log

2000-2002 topic 15

mesh prove
vertex
element dimensional

2003-2005 topic 9

computation
search cost

2006-2008 topic 18

neural
nonlinear
dynamic
parameter fuzzy

2009-2011 topic 17

particle solving
genetic robot

2012-2014 topic 18

parameter
filter random
probability
nonlinear input
error control
distribution estimation

2015-2017 topic 7

computational
solve math
solving

2018-2020 topic 17

analysis
provide quantum
agent
distribution probability
framework

1979 - 2020

Core words

set
point function
solution
optimization
algorithm
computational
time number
problem
constraint optimal

1979-1981 topic 4

mathematical
program
programming
dynamic

1997-1999 topic 5

size test
computation
path circuit
fault
vector heuristic

2000-2002 topic 19

parameter
rule
strategy
fuzzy

2012-2014 topic 19

compression
local
high
edge
multi
image
quality
objective
compared

2015-2017 topic 7

complexity
math

2018-2020 topic 17

distribution
framework
agent
theory quantum
probability
provide

1979 - 1993

Core words

type logic
class theorem
theory proof
set structure
property abstract
language definition
function form

1979-1981 topic 1
computation
operation
complexity verification
context log
cell
array
machine introduced

1982-1984 topic 14
integer element
database
string sequence
bo functional
query
attribute
subset relational

1985-1987 topic 3

concept
prolog

1988-1990 topic 12

variable
classification representation
case
space
pattern

1991-1993 topic 17

italic
constraint
operator
chapter
calculus

1979 - 2017

Core words

processor
technique processing
architecture
hardware parallel
performance
level memory
time high
task implementation
application

1979-1981 topic 8

structure
microprocessor
instruction
abstract feature
microcomputer
compiler
language
operating unit

1982-1984 topic 12

array access
presented traffic flow
network
structure
control
protocol cost

1985-1987 topic 20

number message
control
computation
network
multiprocessor

1988-1990 topic 8

multiprocessor
knowledge
mechanism
language
computation reasoning
environment expert
object rule
domain representation

1994-1996 topic 19

methodology
synthesis
requirement fault
analysis
product visualization circuit
development generation

1997-1999 topic 4

instruction
module
code
cache

2003-2005 topic 5

component framework
technology support
analysis
requirement grid
object
modeling platform developed
development environment

2006-2008 topic 14

analysis
code
test
platform
dynamic
testing

2009-2011 topic 20

flow efficient
optimal core speed
efficiency computational
cost
number multi

2012-2014 topic 2

power e
energy core low
load control
efficiency speed grid
cost dynamic
consumption

2015-2017 topic 8

implemented block
code
core low
logic
test
testing
circuit work

1979 - 2020

Core words

protocol
scheme
network
routing
transmission
time
traffic
link communication
performance
node packet
delay

1979-1981 topic 14
queue probability
buffer distribution
presented capacity
tree average flow
area switching

1985-1987 topic 9
voice optical
queue curve
radio satellite
distribution point
local surface

1988-1990 topic 7
neural presented
etx learning
local cache
neuron
architecture
connection neuron
interconnection

1991-1993 topic 2
architecture failure
etx high load
station fault
application

1994-1996 topic 9
station connection
source buffer
radio signal
switch antenna call
atm receiver

1997-1999 topic 17
resource buffer allocation
ip high loss
cell multicast
atm connection

2000-2002 topic 7
application ip flow
cache qos
resource

2003-2005 topic 1
qos resource
scheduling ip
hoc load ad peer

2006-2008 topic 19
error efficient multi
interference energy
capacity technique
sensor power complexity
problem optimal cost compared

2009-2011 topic 9
problem key
sensor topology
security ad
energy attack route

2012-2014 topic 4
mobility agent ad hoc
problem topology
fuzzy destination
dynamic connectivity
neural

2018-2020 topic 9
user driver road
sensor scenario
station power radio
interference vehicle

1979 - 2020

Core words

noise error
time
signal performance
frequency rate
channel

1979-1981 topic 18

fault bandwidth
processing spectral speech
estimation image
detection test
transform

1982-1984 topic 6

measurement sampling component
parameter characteristic switch
analysis quality effect current
probability analog operation clock
analog case voltage analog

1985-1987 topic 18

sampling cmos circuit
delay gate response
clock voltage analog

1988-1990 topic 15

processing response
block delay etx

1991-1993 topic 16

probability correlation
response sample spectral
analysis distribution etx
detection transform

1994-1996 topic 3

vector block number
sequence memory
cache cdma
encoding video
quality

1997-1999 topic 19

estimate sequence spl
cdma code estimation
parameter

2000-2002 topic 4

code fault
estimation detection
spl

2009-2011 topic 1

communication gain
carrier user relay
station capacity multi
radio modulation mimo
wireless

2012-2014 topic 5

relay radio user
cell throughput network
wireless capacity
access delay station
communication

2015-2017 topic 19

wireless optical
measurement network
radio sensing energy
sensor communication

2018-2020 topic 7

measurement numerical
analysis compared flow
equation element waves
parameter field coefficient
structure

1982 - 2020

Core words

support user tool developed
design
application engineering
development environment
software process

1982-1984 topic 2

specification communication capability graphic interactive discussed high operating integrated hardware abstract communication

1985-1987 topic 17

interactive program capability package control specification ada hardware ada module graphic language abstract

1988-1990 topic 9

integrated control service network area quality cost computing future expert management discussed communication

1991-1993 topic 15

object methodology language oriented description specification structure programming

1994-1996 topic 5

report standard package version virtual parallel platform performance laboratory workstation program library programming code computing

1997-1999 topic 12

methodology test testing quality simulation

2000-2002 topic 17

distributed task management real virtual object agent architecture

2006-2008 topic 4

object agent book chapter domain behavior context interaction rule ontology security resource architecture

2009-2011 topic 5

structure specific web task domain complex chapter

2015-2017 topic 16

review future practice context business field challenge management

2018-2020 topic 5

simulation material industrial industry quality testing complex safety machine structure production building

1982 - 2020

Core words

engineering
software
development
process^{project}
application
product
tool**design**

1982-1984 topic 2
abstract integrated
technique operating
communication interactive
implementation implementation
specification hardware high
hardware capability graphic
describes discussed

1985-1987 topic 17
hardware language
interactive control package ada
specification module program abstract
graphic

1988-1990 topic 9
control provide
communication network
cost discussed future
service integrated expert area

1991-1993 topic 15
concept implementation
object language
programming oriented
specification description modeling
technique structure problem

1994-1996 topic 5
library virtual workstation
laboratory programming performance package
computing report implementation
program code platform parallel version standard

1997-1999 topic 12
concept framework
technique simulation testing
problem modeling test

2006-2008 topic 10
decision factor
customer market impact
risk future production
enterprise cost evaluation

2009-2011 topic 4
online community communication
company risk year
organization website
decision library public digital
internet customer social enterprise
factor article people

2012-2014 topic 20
decision impact
making cost factor evaluation
risk framework organization challenge

2015-2017 topic 16
challenge future
concept practice provide
framework field context review

2018-2020 topic 5
simulation structure
building machine complex
test industrial
production manufacturing operation
testing material safety

1982 - 2017

Core words

visual shape space
spatial processing map
object
camera point dimensional
image surface pixel
scene 3d real feature
region motion resolution
technique

1982-1984 topic 7
representation
pattern
version
analysis
picture coordinate
boundary
display
abstract

1988-1990 topic 19
boundary
sequence
etx
analysis

1991-1993 topic 5
force etx
robot
joint
control
sensor
manipulator

1994-1996 topic 20

matching
scale

1997-1999 topic 10

graphic
texture
compression

2000-2002 topic 1
quality
time frame
compression

2003-2005 topic 10

frame

2009-2011 topic 6
area
sensor
view
tracking

2015-2017 topic 1
virtual action
tracking
view hand
task environment
time human depth
movement

1985 - 2011

Core words

cmos current gate
technology
circuit
voltage
power
chip high low
device output

1985-1987 topic 18

noise component
response
channel function
time
delay operation
sampling spectrum bit

1988-1990 topic 5

array field
transistor
mu
electrical
logic etx beam
antenna element

1994-1996 topic 15

noise
measurement
time
spl
band radar

1997-1999 topic 7

area
radar
measurement
sensor measured surface
developed field single

2000-2002 topic 2

chain stage
process cost
load

2003-2005 topic 20

spl

2006-2008 topic 13

flow process
area integrated water
bus
battery attack

2009-2011 topic 8

gene pulse
array
simulation

1985 - 2008

Core words

member portion contact
position
device
surface
head
side
provided utility
force body pressure
movement
element
vehicle mechanism
direction assembly

1985-1987 topic 5

power
operation beam
beam field
high
laser pulse engine
mode includes detector

1988-1990 topic 18

defect mounted comprising
comprises
inspection group
apparatus reaction
profile safety
wheel

1994-1996 topic 12

human angle
flow
ring hand trajectory
joint
robot
motion

1997-1999 topic 15

grid joint hand mobile
joint
hand
mobile
air

2000-2002 topic 3

flow support fluid compound
support layer ring molecular
structure
cell protein chemical

2003-2005 topic 4

satellite
driving

motion

2006-2008 topic 7

structure
support
angle
arranged
light positioning
comprises

1988 - 2020

Core words

controller
adaptive **dynamic**
feedback presented
control design
simulation
nonlinear condition
time state
stability
parameter
linear

1988-1990 topic 4
graph
structure motion
edge path degree
sensor space trajectory
force tree joint
vertex manipulator

1991-1993 topic 7
estimate
etx numerical matrix

1994-1996 topic 7
measure modeling
variable estimation
estimate measurement
distribution
numerical procedure
solution process statistical

1997-1999 topic 20
fuzzy
plant learning
uncertainty environment
behavior real function

2000-2002 topic 9
behavior function
network speed
sensor vehicle
neural motor
motion force

2003-2005 topic 19
signal
phase rate delay
noise high detection
frequency

2015-2017 topic 13
phase
strategy designed
effectiveness mode

2018-2020 topic 1
uncertainty
fuzzy disturbance
effectiveness

1988 - 2014

Core words

education
learning
student
teaching
computer

university
science
school
skill
material group

1988-1990 topic 10
role medical
theory
task human
strategy decision

1991-1993 topic 13
technical
test
document report

1994-1996 topic 2
text
topic
level

1997-1999 topic 9
reference
english
introduction
topic
chapter
basic reader

2000-2002 topic 13
quality
management
organization community
social communication

2003-2005 topic 16
management
concept product
design quality
organization resource

2006-2008 topic 5
strategy
game
theory

2009-2011 topic 14
atom college
ring compound
child ability music
title classroom course

2012-2014 topic 1
test
design
english
child

1988 - 2020

Core words

word
language
sentence rule
text context
character grammar
natural english
type semantic
translation analysis

1988-1990 topic 20

pattern
recognition
unification
feature clause
prolog input version
final parser parsing

2000-2002 topic 11

pattern diagram
specification
theory
programming
program
class machine concept
code mining formal

2003-2005 topic 7

concept
knowledge
formal
fuzzy
reasoning verification
theory fault property

2006-2008 topic 12

lexical
satellite
land category uml
meaning road urban
phrase city

2009-2011 topic 19

lexical
neuron
recognition phrase
meaning fuzzy
feature

2015-2017 topic 17

question
task
ontology
sentiment
journal topic
source article
content

2018-2020 topic 20

entity
ontology
style event
sentiment
question domain
knowledge representation
document

1991 - 1999

Core words

concept
set domain
representation
structure
knowledge
rule problem
language

1994 - 2008

Core words

access management resource
user
internet electronic server
application multimedia
provide site library
web
technology
service

1994-1996 topic 4

cost area future
organization project work
problem issue wide
medium quality

1997-1999 topic 18

business
virtual
distributed architecture
mobile
environment

2000-2002 topic 16

commerce
digital
customer public key
file

2006-2008 topic 3

workflow search composition
semantic peer p2p
grid schema online engine

1994 - 2020



1994-1996 topic 4

electronic multimedia issue area
medium project problem standard organization
wide standard development work future
library cost quality

1997-1999 topic 18

site virtual interface standard business
security library development electronic
multimedia

2003-2005 topic 6

terminal secure request content
wireless protocol interface message
broadcast cache authentication key
security interface message module

2006-2008 topic 8

node mechanism message ip
wireless station connection protocol
qos traffic packet request transmission

2009-2011 topic 3

game grid mechanism smart agent peer
virtual platform

2015-2017 topic 15

policy efficient solution storage
cost scheduling performance real algorithm
energy demand task efficiency consumption

2018-2020 topic 11

edge solution thing iot challenge
smart blockchain performance
platform processing storage

1994 - 2014

Core words

time processing
includes output
device
display operation
unit input
storage user
provided apparatus
signal apparatus
memory plurality terminal

1994-1996 topic 14

command stored
program address
game read
color copy
computer access
disk processor

1997-1999 topic 11

mpeg frame
stream digital station
sound recording stored transmission

2000-2002 topic 14

transmission module
computer message connected
program game station
mobile number

2003-2005 topic 8

sensor detecting
recording area
location medium state
measurement monitoring

2006-2008 topic 11

module comprising
key image electronic
connected authentication

2009-2011 topic 11

comprising state table
read cell set
equipment configuration
request access

2012-2014 topic 12

camera image
object equipment
server request
mobile frame 3d position

1997 - 2020

Core words

set **feature**^{vector}
classification
learning
accuracy analysis
detection
recognition
experimental experiment
technique
performance
classifier

1997-1999 topic 2
hidden error rate
extraction speaker input
test automatic
speech rule acoustic
parameter character

2000-2002 topic 8
statistical probability class
cluster word sound
distribution gene sequence
speech

2003-2005 topic 12
criterion number selection
statistical quality cluster factor
test metric correlation evaluation
selection compared distance

2006-2008 topic 15
point map space
color
spatial mining
face real region 3d

2009-2011 topic 10
estimation adaptive time
parameter target
noise filter
error compared

2012-2014 topic 10
extraction
face tracking

2015-2017 topic 14
deep datasets art problem
network state

2018-2020 topic 12
datasets multi
network art deep
state video problem

2009 - 2020

Core words

ct ^{heart} ^{blood}
diagnosis
disease
patient
^{clinical}
^{drug} ^{cell}
medical
^{treatment} ^{hospital}