A Complete Bibliography of *ACM Transactions on Mathematical Software*

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**Title word cross-reference**

- $-1/2, 1/2, 3/2, 5/2$ [942]. 0 $- 1$ [498]. 1 [1127]. 2  
  [1059, 1265, 1228, 1590, 1406, 1226, 1161, 1595]. 2$^p$ $- 1$ [925]. 3  
  [792, 1590, 1406, 1403, 1466]. 64 [1565]. $A - B$ [784]. $A - \lambda B$ [785].
- $a = \pm 2^p \pm 2^r$ [995]. $ab + cd$ [1438]. $A_{*} = b_{*}$ [351]. $AX^2 + BX + C = 0$ [415].  
  $AXB^T + CXD^T = E$ [1071, 753, 752]. $\beta$ [1515]. $C^1$ [1114, 660, 683]. $C^2$  
  [683, 682, 286]. $E_n(x)$ [437]. $\ell_1$ [283, 316, 315]. $F$ [803, 802, 617, 12]. $f(x)$  
  [403]. $F_2$ [1565]. $H_p$ [453, 452]. $hp$ [1433, 1432]. $h \to \infty$ [445]. $i$ [105].  
  $I_0$ [150]. $I_1(x)/I_0(x)$ [336, 332]. $I_{1,5}(x)/I_{0,5}(x)$ [336, 332]. $I_p(x)$ [126, 125, 207].  
  ith $i$th [30]. $J_0(x)$ [282, 281, 317, 314, 908]. $l_2$ [1455]. $L_{\infty}$ [512]. $LDL^T$ [1535]. $m$ [1515].
- $MDM^T$ [876]. $N$ [1180, 1584, 105, 30, 1455, 213]. $O(\log_2 k)$ [789].  
  $O(n(1 + \log(N/n)))$ [841]. $O(n^{1/2} \tau)$ [616]. $\omega$ [1362]. $\pm 2^{k_1} \pm 2^{k_2}$ [925]. $Q$  
  [1048, 1555, 1420]. $QR$ [1545, 1499, 1460, 1505, 1552, 953, 952, 1412]. $rc$  
  [804, 19, 79]. $r \times c$ [542]. $s$ [1347]. $T$ [1543, 1036, 14, 15, 338, 339, 228].
$U(a, x) [1165, 1164]$. $UTV [1587]$. $v [566, 619]$. $V(a, x) [1165, 1164]$. $\varphi [1285, 1364]$. $W(a, x) [1348]$. $x_{n+1} = f(x_n) [149]$. $x \geq 0, v \geq 0 [126, 125, 207]$.


-Test [617, 12]. -Vectors [1455].


3D [896]. 3m [1541].


[376, 321, 137, 1517, 143, 1454, 147, 1436, 1449, 569, 641, 943, 1301, 951, 1228, 1102, 1136, 1023, 1032, 1303, 1398, 1209]. **Generator**
[73, 599, 495, 587, 317, 314, 805, 807, 1612, 769, 768, 264, 1610, 219, 1442, 754, 1614, 1008, 1079, 1251, 1036]. **Generators**
[1616, 1580, 409, 560, 500, 1565, 995, 221, 1491, 1216, 1161, 886, 925]. **Generic**
[1268, 1454, 1356, 1059, 1275]. **Genome**
[1427]. **Genome-Wide**
[135x574]. **Genus**
[1495]. **Geometric**
[167x574]. **GERK**
[92]. **GF**
[1304]. **GFUN**
[822]. **gHull**
[1403]. **Gibbs**
[378, 377]. **Gibbs-King**
[378, 377]. **Gibbs-Poole-Stockmeyer**
[378, 377]. **Given**
[612]. **Givens**
[1063, 1107]. **GIZ**
[1075]. **Global**
[625, 624, 1383, 853, 46, 569, 862, 92, 89, 451, 1453, 247, 1102, 1290, 1085]. **Globally**
[922, 580, 939, 1215]. **GloptiPoly**
[1085]. **glsurf**
[1115]. **GMRES**
[1141, 1257]. **GNU**
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[987]. **Gradient**
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[1373]. **Graph-Theoretical**
[143]. **Graphic**
[1384]. **Graphics**
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[907]. **Grid**
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[602, 1567]. **Group**
[671]. **Growth**
[1568]. **Guaranteed**
[63, 830, 1166]. **Guarantees**
[1548]. **H**
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[627]. **Hager**
[1072]. **Half**
[1470]. **Half-Range**
[1470]. **Halley**
[490]. **Hamiltonian**
[1003, 1179, 1485, 406]. **Hamiltonian/Hamiltonian**
[1485]. **Hammarling**
[1223]. **Hand**
[680, 1118]. **hand-coding**
[1118]. **Handling**
[611, 825, 928, 897]. **Hankel**
[392, 391, 988]. **Hardware**
[1501, 420]. **Harmonic**
[1267]. **Harmonics**
[1435]. **Harrison**
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[904, 1378]. **HDG**
[1451]. **Heap**
[304]. **Heat**
[100, 1033]. **Helmholtz**
[577, 576, 254, 1371, 337, 210, 404, 1536]. **Helmholtz-Type**
[254]. **HERMCOL**
[525]. **Hermite**
[99, 652, 1470, 524, 525, 682]. **Hermitian**
[1094, 1416, 134, 1604]. **Hessenberg**
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[522, 521]. **Hessians**
[1410, 1225]. **Heteroclinic**
[1360]. **Heterogeneity**
[918, 1572]. **Heuristic**
[1439]. **Heuristics**
[451]. **HFFT**
[577]. **Hierarchical**
[1586, 798, 1434, 1422, 686, 1158, 1139, 1046]. **Hierarchically**
[1489, 1488, 1482]. **Hierarchy**
[718]. **High**
[994, 577, 730, 874, 1545, 1561, 1607, 1257, 1248, 248, 1441, 534, 941, 1425, 1358, 1507, 1388, 1449, 718, 943, 1549, 1563, 1593, 1501, 1346, 1541, 1326, 673, 1140, 1152, 1141, 1234, 955, 1237, 1005, 1229]. **High-Accuracy**
[534]. **High-Dimensional**
[994]. **High-Level**
[730, 673]. **High-Order**
[577, 248, 1358, 943, 1152, 1237]. **High-Performance**
Integrals
Integrand
Integrate
Integrated
Integrating
Integration
Integrator
Integrators
INTEL
Intelligent
Interactive
Interchange
Interface
Interchange
interior
interior-point
Internal
Internet
Interoperable
Interpolants
Interpolating
Interpolation
Interpolation-Based
Interpolatory
Interval
INTERVAL
ARITHMETIC
Intervals
INTLIB
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Introduction
Invariant
Inverse
Inverses
Inversion
Invert
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Isolated
Isolation
ISSUE
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Iteration
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ITPACK
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JNF
John
K2
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KBLAS
Kernel
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Keywords
Kind
Knot
Knowledge
knowledge/database
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Kohn
Kolmogorov
Kronecker
Kronrod
Krylov
KSSOLV
Kutta
L
L-BFGS
L-BFGS-B
L2A
L-BFGS
L-BFGS-B
L2A
Lagrange [1265], Lanczos [1322, 329]. Language [1569, 673, 1409, 1049].
Languages [409]. LAPACK [881, 1394, 884, 1295]. LAPACK-based [881].
[915, 873, 872, 1590, 495, 361, 1428, 613, 387, 1474, 761, 569, 1493, 603, 1596, 744, 740, 741, 614, 758, 488, 1094, 1286, 1205, 1108, 1096, 1119, 1204, 1251, 1289, 1144, 1349, 1233, 1413, 1311, 1098, 1306, 940]. Large-Scale
[873, 1590, 495, 1428, 1474, 569, 744, 740, 741, 578, 488, 1286, 1205, 1096, 1251, 1289, 1349, 1233, 1413, 940]. Larger
[8, 141]. Larkin [497, 536]. Last
[724]. Lattice [808, 826, 1476, 1330, 1542, 1476]. Leading
[311]. Least
[457, 509, 508, 920, 348, 347, 1416, 1200, 1197]. Least-Squares
[509, 508, 348, 407, 1531, 742, 920, 347, 1416, 1200, 1197]. Legendre
[8, 141, 328, 324]. Lehman [463]. Length
[358, 33]. Lengths
[305, 418]. Level
[730, 823, 756, 664, 663, 931, 1381, 690, 1498, 673, 1248, 1014, 956, 955, 845, 1287, 1546, 992, 931, 1173]. Level-3
[823, 756, 1381, 1498, 1248]. Lexicographical
[137, 1209]. Libraries
[1295, 1154]. Library
[358]. Like
[797, 1563, 1346]. Likelihood
[780, 900, 1250, 1249]. Lilliefors
[123]. Limited
[1424]. Limited-Memory
[1424]. Line
[612, 830]. Linear
[1511, 502, 114, 246, 268, 1191, 897, 1132, 1131, 1416, 1400, 889, 890, 1108, 1406, 1119, 1204, 1312, 1083, 1274, 1199, 1281, 1161, 1098, 1189, 1307, 1007]. Linear-quadratic
[845]. Linearly
[1511, 502, 114, 246, 268, 1191, 897, 1132, 1131, 1416, 1400, 889, 890, 1108, 1406, 1119, 1204, 1312, 1083, 1274, 1199, 1281, 1161, 1098, 1189, 1307, 1007]. Location
[301, 296, 138, 463, 697]. log
[900, 1008, 900]. log-concave
[1008]. log-F
[900]. log-likelihood
[900]. Logarithm
[1323, 1264, 679, 692]. Logarithmic
[142, 1213, 1214]. long
[1161]. long-period
[1161]. Longest
[358]. Loops
[558, 1537]. LOPSI
[335]. Loss
[1606]. Low
[564, 1585, 842, 926, 476, 1513]. Low-discrepancy
[842, 926]. Low-Rank
[1585]. Low-Space
[564]. Low-Variance
[1513]. Lower
[53]. LSA
[1289]. LSNNO
[758]. LSQR
[625, 496, 832, 104, 130, 440, 21, 44, 744, 740, 741, 526, 76, 318, 982, 961]. Minimizing
[579, 922, 1162, 653]. Minimum
[301, 296, 292, 451, 499, 1526, 1123, 1122, 1121]. Minimum-Cut
[1239, 1371, 1016, 1157, 1312, 1062]. mixed-order [1016].
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[1117]. Moment [1494, 1435]. Monitoring [51]. Monodromy
[1436]. MRRR [1188, 1296]. MSS [1428]. MTIEU1 [796]. MTIEU2 [796]. Multi
[1014, 1261, 1136]. Multi-Adaptive [1261]. multi-dimensional
[301, 296]. Multifrontal
[1508, 1585, 656, 972, 422, 550, 578, 657, 1482, 1230, 1113, 1112, 1162, 1350].
null-space, numerical, numeric, numerical, numbers, numbers, numeric, numerically, Nyström, O1, Object, object-oriented, observation, obtaining, octave, octave/matlab, ode, ODEs, ODEss, odeToJava, ODEXPERT, ODRPACK, ODRPACK95, off, off-mesh, one, one-dimensional, one-norm, one-pass, one-sided, one-way, online, open, open-source, OpenAD, OpenAD/F, OpenGL, OpenMP, operands, operation, operations, operator, operators, OPT, optimal, optimality, optimally, optimization, optimizations, optimzed, optimizing, optimizer, option, orbits, order, ordering, ordered, oriented, oriented, oriented, oriented, oriented, oriented, oriented, oriented, oriented, Oscillating, oscillatory, oscillatory, osculatory, osculatory, osculatory, Oscillating, oscillatory, oscillatory, oscillatory.
Other [686, 434]. Out-of-Core [550, 1367, 1133, 1183, 1282, 1104, 1314].
Overhead [290]. Overlapped [1526]. Overlapping [815]. overloaded
[1172, 1389]. Overloading [1472, 1556]. overview [1146, 1064, 1151, 1147].

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PCOMP [864, 1017]. Pcp2Nurb [954]. PDE [1059, 1591, 944, 1373].
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PDEtwo/PSETM/GEARB [326]. PDFIND [553]. PDS [1613]. Peano
[1363]. penultimate [1078]. Percentiles [803, 802]. Performance
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Student [14, 15, 33, 339, 228]. Studies [1427].

Subdivision [686, 1192]. Subject [302, 297]. Subprograms [1061, 1060, 241, 240, 397, 592, 628, 591, 664, 663, 931, 1064, 581, 238, 237, 609].

Subresultant [188]. Subroutine


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Tridiagonalization

TRIEX

Trigonometric

Trilinos

trimmed

TRIPACK

Trivariate

Truncated

trust

Trust-Region

TSHEP2D

TSPACK

TTC

Tucker

Turbulent

Tutte

Twister

Two

Two-Dimensional

Two-Sided

Two-Stage

Two-step

Type

UIMP

UMFPACK

Uncertainty

Unconstrained

Underdetermined

Unified

Uniform

Unifrontal

Unifrontal/Multifrontal

Union

Unitary

Units

Univariate

universal

University

Unknowns

Unordered

Unstructured

Unsymmetric

unsymmetric-pattern

UPC

Update

Update/Downdate

Updated

Updates

Updating

User

uses

Using

V4.3

Validated

Validation

Value

Valued

Values

Variable
Ellenberger:1960:NSP


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