A Bibliography of Publications of Nicholas John Higham

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Abstract

This bibliography records publications of Nicholas John Higham.

Title word cross-reference

1 [CH01a, CH01b, HT00]. 2 [HR14b]. 3×3 [HN16]. **$57.00** [Hig05a]. ^{T} [Hig99f]. a [CDHJ07]. $\mathbf{A}^\alpha$, $\log(\mathbf{A})$ [HHT08]. $AX - XB = C$ [Hig92f, Hig93f, Hig93e]. $C_n(x)$ [Hig93b, Hig96b, Hig97a]. f [DH05]. $f(A)b$ [DH05]. J [Hig03a]. LU [DHS95, FH21b, HHP21, HM22b]. LDL$^{\mathrm{T}}$ [Hig97f]. p [BHM05, GH06, Hig92a, HL11a]. QR [CH97b, Hig90h, Hig91b, Hig98a, Hig00a, Hig03b]. $S_n(x)$ [Hig93b, Hig96b, Hig97a]. $s \exp(s) = a$ [CDHJ07]. W [CDHJ07, FHI15].

-Norm [CH01a, CH01b, HT00, Hig92a]. **-Orthogonal** [Hig03a]. **-th** [HL11a].

0 [Hig05a]. **0-471-11111-2** [Hig99a]. **0-89871-561-X** [Hig05a].

100-Digit [Hig05a]. **17th** [HWG98]. **18th** [WG00]. **1986** [IP87]. **1992** [MGD93]. **1997** [HWG98].

2017 [BBdD17]. **2022** [Ano22]. **24th** [BBdD17]. **29th** [WG00]. **2nd** [WG00].

60th [Ano22, Hig92b]. **679** [DDHD90].

'98 [ALM99].

accelerate [HBT+20]. **Accelerating** [CH18]. **acceleration** [HS16a]. **Accuracy** [CH97a, CH99c, Hig89a, Hig96a, Hig98e, Hig99d, Hig02a, Hig05a, CH00a, CHKL01, Hig93a]. **Accurate** [BHM20, Hig90f, Hig98a, CH17, Hig00a, Hig00b]. **Accurately** [BHH21]. **Acta** [Hig96d]. **Action** [AMH11, HK17, Fis17]. **Adaptive** [ADF+19]. **Add** [BHL+19, BHL+20].

Advanced [MGD93]. **Advances** [Ano22]. **Again** [HS98]. **Al** [Fis17]. **Al-Mohy** [Fis17]. **Alan** [Hig06a]. **Algebra** [ACD+21, Ano22, DDHD90, HH22, Hig85b, HS87, Hig94d, Hig94e, Hig95e, Hig97d, Hig97j, Hig98e, Hig99a, Hig99b, Hig00c, HHL01, Hog07, MGD93, HM20, HM22a, MP93, Hig99e]. **Algebraic** [Bro07, GH07, Wil23]. **Algorithm** [AMH10b, BHH93, CH96b, CH98a, CH01a, CH01b, DH03, GHT10, Hig88a, Hig91a, HP94a, HP94b, HT00, Hig03b, HL11b, HL21, AMH09b, BH10, FHI15, FH19, Fis17, GHT09b, HL13, HN16, DDHD90, Hig89c]. **Algorithms** [AMH12, AMHL22, AH16, BHM05, BHM20, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, Hig96a, Hig98e, Hig99d, Hig02a, Hig06b, NH13, AMHR15, BHP03a, DGH20, FH18a, HH05a, HM22a, Hig23, Hig96f]. **Alley** [Hig01b]. **alternating** [HS16a]. **always** [CDHJ07]. **Analysis** [ALM99, BHL+19, CH23, DHT01, FHL+23b, Hig87b, Hig90a, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, Hig06a, HM19a, IP87, THDC09, BBDH14, BHL+20, CH17, CHM21, DW97, Hig93e, HWG98, HK00, HM20, WG00, ALM99, Hig02d]. **Analyst** [Hig99c]. **analyzing** [GHT11]. **Anderson** [HS16a]. **Anonymous** [Hig92c]. **Anton** [Hig95e]. **Anymatrix** [HM22c]. **Appl.** [Hig93b, Hig96b, Hig97a]. **Application** [AMH09a, AMH11, BHL+19, FHL+23b, HT00, HSŠ16, HPZ19, AMH08, AH14, BHL+20, CH17, GHP18]. **Applications** [Hig86a, Hig88a, Hig89c, Hig89e, Hig90j, Hig95e, Hig07b, MP93, MGD93, TH02, HT02, TH01, Hig06b]. **Applied** [GH04, Hig99a, Hig00c, Hig02e, HDG+15, MP93, Hig14]. **Applied/Computational** [GH04]. **Approach** [HM19a, AHTW01]. **approximants** [Hig01a]. **Approximate** [ABH+23]. **Approximating** [CH00a, CHKL01]. **approximation** [AMH10a]. **Approximations** [HM19b]. **April** [IP87]. **Arbitrary** [AMHL22, HS90, FH19]. **Arc** [GHT10, GHT09b]. **Arising** [HC96, HC98]. **ARITH** [BBdD17]. **Arithmetic** [BBdD17, FHL+23b, Hig91d, HK95, Hig02e, Hig17a, Hig18e, HP19, HTDH18, HP21]. **Arnold** [Hig02d]. **Art** [IP87, DW97]. **associated** [HTV02]. **asynchronous** [BBDH14]. **August** [Bro07, MGD93].

Backward [CH98c, CH98d, CH99b, CH00b, HH92a, Hig92f, HH96b, HH98, HH99, HLT07, HLT08, NH12, CHM21, Hig93f, Hig93e, HM20]. **Baker** [HF17]. **Baltimore** [Hig90i]. **Barnett** [Hig90j]. **barycentric** [Hig04]. **Based** [CH96b, CH98a, AHH16, CHP20, SLEK19]. **Basic** [ACD+21, DDHD90, HM20, Hig85a, Hig86c]. **Batched** [ACD+21]. **Be** [HS22]. **Behavior** [HK93b, Hig07c, FHMP21]. **Belgium** [MGD93]. **bfloat16** [Hig18e]. **Biennial** [HWG98, WG00]. **Bini** [Hig96f]. **Birkhäuser** [Hig96f]. **Birmingham** [IP87]. **Birthday** [Ano22, Hig92b]. **Björck** [Hig87b]. **BLAS** [DDP94, DH90b, DH92a, Hig90e]. **Block** [BHL+19, CH01a, CH01b, DDP94, DH90b, DHS92, DH92a, DHS95, Hig97f, HT00, HSŠ16, ADF+19, BHL+20, Hig99f, HM22b]. **block-Jacobi** [ADF+19]. **Bohemian** [Hig18b]. **Book** [Hig98b, Hig99a, Hig99b, Hig05a]. **Books** [Hig99b]. **Bornemann** [Hig05a]. **Bounding** [Hig90b]. **Bounds** [CH98c, DH90a, DH93, Hig90c, HT01, HT03, HS16b, CH99b, Hig83b]. **Bruaset** [Hig96e]. **Bur.** [Hig93b, Hig96b, Hig97a].

C [Hig90i, Hig90j, Hig93b, Hig96b, Hig97a, Hig00c]. **Cambridge** [Hig96d, Hig02d]. **Canada** [Bro07]. **Canonical**

[HMT10, HMT10]. **Cayley** [Hig08a]. **Celebrating** [Ano22, HH19]. **centrality** [AHH16]. **CERFACS** [HHK93]. **chains** [MP93]. **Challenge** [Hig05a]. **Chebyshev** [Hig93b, Hig96b, Hig97a]. **Cholesky** [CH96b, CH98a, DHT01, Hig90a]. **Chris** [Hig95e]. **Christoph** [Hig98b]. **Christopher** [HF17]. **Chu** [Hig06b]. **Class** [BHM20]. **Cleve** [Hig99c]. **closest** [AHTW01]. **Codes** [Hig88a, Hig89c]. **Collection** [Hig89b, Hig91a, BHM$^+$13, HM22c, ZH16]. **Combining** [ABH$^+$23]. **Commentaries** [CGO07]. **Commentary** [Hig07b, Hig93b, Hig96b, Hig97a]. **Companion** [HDG$^+$15]. **Complete** [Hig98a, Hig00a, Hig00b]. **completion** [GHP18]. **Complex** [Hig88a, Hig89c, Hig92e, Hig96c, AMH10a, Hig98c]. **Componentwise** [HH92b, HK93a, Hig94d, Hig94e]. **Computation** [Bro07, CGO07, Hig98b, Hig98a, Hig02c, Hig08b, Hig15, Hig00a, Hig00b]. **Computational** [GH04, DGH20]. **Computations** [HHK93, Hig85a, Hig86c, Hig89d, Hig90i, Hig93d, Hig96f]. **compute** [HN16]. **Computer** [BBdD17]. **Computers** [Hig00c]. **Computing** [AMH08, AMH09a, AMH11, AMHR13, AMHL22, BHR10, BH95, BH96, DH03, DH05, FHL23a, HHT08, Hig86a, Hig86b, Hig87a, HS87, Hig88b, Hig90c, HP94a, HP94b, Hig02b, Hig02e, HS03, HMMT04, Hig05a, HAM10, HK17, HL21, NH18, NH12, THDC09, AMHR15, AH14, BHH21, FH18a, Fis17, HS16a]. **Computing/Numerical** [THDC09]. **Condition** [AMH09a, FH21b, Hig83a, Hig86b, Hig87c, Hig88a, Hig89c, HH92a, HH96b, HH98, HH99, HR14b, AMH08, AMHR13, FH21a, Hig83b, HR14a]. **conditioned** [CH17]. **Conditioning** [HMT06]. **Conference** [HWG98, HHL01, IP87, WG00]. **Confluent** [Hig90k]. **Connection** [BHH93]. **Conquer** [NH13]. **Constrained** [CH97a, CH98c, CH98d, CH99c, CH00b, BHP03a, CH99b]. **Continuation** [BH95, BH96]. **contour** [HHT08]. **Contribution** [HH22]. **control** [HT02]. **Cores** [BHL$^+$19, FHL$^+$23b, BHL$^+$20, FHMP21, HTDH18, HBT$^+$20]. **Correlation** [BHR10, DH00, HS16b, HSŠ16, AHTW01, BH10, GHP18, Hig02b, HS16a]. **Corrigendum** [Hig89c]. **Cosine** [AMHL22, HS03, AMHR15, HH05a]. **Course** [HL15]. **Covariance** [LHP14]. **Craft** [Hig01b]. **Creative** [HS22]. **creativity** [HS23].

D [Hig99a, Hig99e]. **Danny** [Hig00c]. **Dario** [Hig96f]. **data** [Hig18d, HM20]. **days** [WG00]. **Decomposition** [Hig86a, Hig90a, HS90, HP93, Hig94c, HP94a, HP94b, HMMT04, HMT10, NH12, NH13, HMT10, HN16]. **Definite** [CH98b, DHT01, GHT10, Hig96c, HMT09, CH99a, GHT09b, Hig90a, Hig98c, HTV02, HP21]. **Definiteness** [HSŠ16]. **Dense** [Hig97d]. **Depot** [ZH16]. **Derivative** [AMH09a, AMHL22, HL21, AMH08, AMH10a, AMHR13, HR14a]. **Derivative-Free** [HL21]. **Derivatives** [HR14b, HL13]. **Detecting** [GHT08, GHT09a, GHT10, HTV02, GHT09b]. **Developing** [THDC09]. **Developments** [Hig97d]. **Diagonal** [Hig95c, Hig95b, Hig97g]. **Dictionary** [Hig94f]. **difference** [Hig18a]. **Differentiation** [Hig18a]. **Digit** [Hig05a]. **Direct** [Hig93d]. **Dirk** [Hig05a]. **discovery** [HS23]. **Distance** [HS16b]. **Distributed** [SLEK19]. **Distributed-memory** [SLEK19]. **Divide** [NH13]. **Dongarra** [Hig00c, HH22]. **Duff** [Hig00c]. **Dundee** [HWG98, WG00]. **during** [WG00].

early [Hig08a]. **Editing** [Hig01b]. **Edition** [Hig90i, Hig95e]. **eds** [Hig90j]. **Efficient** [HH05a, Hig86b, NH13]. **Eigenproblem** [DHT01]. **Eigenproblems**

[HLT08, GHT11, HLT07]. **Eigenvalue** [CH98b, GHT09a, HH96b, HH98, HH99, Hig06b, NH13, TH02, BHM+13, CH99a, GHT08, HTV02, HT02, HMTG08, TH01]. **Eigenvalues** [HT01, HT03]. **Eighth** [HHL01]. **Elementary** [Hig95e]. **Elements** [HR16]. **Elimination** [CH98d, CH00b, HH89, Hig90b, Hig90f]. **elliptic** [HTV02]. **Embree** [Hig07c]. **Engineers** [Hig01b, Hig06a]. **Enhances** [Hig90h, Hig91b]. **entropy** [LHP14]. **EPSRC** [ALM99]. **Equality** [CH97a, CH98d, CH99c, CH00b, BHP03a]. **Equation** [GH07, HK02, HK00, HK01]. **Equations** [Hig90h, Hig91b, Hig91c]. **Error** [BHL+19, CH23, CH98c, DH90a, DH93, FHL+23b, Hig87b, Hig90b, Hig90c, HH92a, Hig92f, HK93a, HH96b, HH98, HH99, HLT08, HM19a, HM19b, BHL+20, CHM21, CH99b, Fis17, Hig93f, Hig93e, HLT07, HM20]. **Errors** [Wil23, DH13]. **Essex** [Hig96e]. **Estimating** [Hig88a, Hig89c, Hig92a, HR14a, HR16, AMHR13]. **Estimation** [AMH09a, CH01a, CH01b, Hig87c, Hig88a, Hig89c, HT00, AMH08, Fis17]. **Estimator** [Hig90d]. **Evaluating** [Hig01a]. **Ever** [HS98]. **Exact** [HK02, HK01]. **Exercises** [Hig02e]. **exp** [BHH21]. **Experience** [Hig90d]. **Explicit** [GHP18]. **Exploiting** [Hig90e, HP21]. **Exploits** [HM19b]. **Exponential** [AMH09a, AMH10b, AMH11, Hig05d, Hig09, AMH08, AMH09b, AH14, AHH16, FH19, Fis17]. **exponential-based** [AHH16]. **extensible** [HM22c, ZH16]. **extreme** [FH21a, Hig23]. **extreme-scale** [FH21a].

F [Hig90i]. **Fête** [Hig92b]. **Factor** [BHR10]. **factorisations** [HLS21]. **Factorization** [BHP03b, CH96b, CH98a, CH23, CH97b, CH98e, DHS92, DHS95, FH21b, Hig90h, Hig91b, Hig97f, Hig98a, HM19b, HHP21, Hig99f, Hig00a, Hig00b, HM22b]. **Factorizations** [ABH+23, Hig07b]. **Factorizing** [Hig96c, Hig98c, HL22]. **Factors** [DH00, HH89]. **Fast** [BHM20, DH90b, DH92a, Hig88c, Hig90e, Hig90g, HS90, HTDH18]. **Featured** [Hig99b]. **Field** [BH95, BH96]. **FIMA** [FH18b]. **finance** [Hig02b]. **Finite** [HK93b, HK95]. **Fitting** [Hig99c]. **Fixed** [HSŠ16]. **Floating** [Hig91d, Hig02e, HP19, Hig93a]. **Floating-Point** [HP19]. **focus** [Hig18d]. **Folkmar** [Hig05a]. **form** [HLS21]. **FORTRAN** [Hig88a, Hig89c]. **fp16** [Hig18e, HTDH18]. **Fractional** [HL11b, HL13]. **Framework** [SLEK19, GHT11]. **Fréchet** [AMH08, AMH09a, AMH10a, AMHR13, AMHL22, HL13, HR14a, HR14b]. **Free** [HL21]. **FTP** [Hig92c]. **Function** [DH16, Hig08e, AMH10a, AH14, CDHJ07, FHI15, HR14a, LHP14]. **Functions** [AH16, DH03, HMMT05, Hig07a, Hig08b, HR14b, HL15, HK17, HL21, NH18, BHH21, DH05, HHT08, HAM10]. **Fundamental** [Hig96f]. **Fused** [BHL+19, BHL+20].

G [Hig90i]. **Gaussian** [HH89, Hig90b, Hig90f]. **Gene** [Hig06b, CGO07, Hig08c, Hig08d]. **Generalized** [CH98b, DHT01, HH96b, HH98, HH99, HMT10, CH99a, HMT10]. **Generating** [FH21a, HHP21]. **Generation** [DH00, Hig03a]. **given** [MP93]. **Gives** [Hig16a]. **GMRES** [CHP20]. **GMRES-based** [CHP20]. **Golub** [Hig90i, Hig06b, CGO07, Hig92b, Hig08c, Hig08d]. **Gover** [Hig90j]. **GPU** [BHL+19, BHL+20, FHL+23b, HTDH18]. **GPUs** [HBT+20]. **Graduate** [ALM99]. **Greet** [GH04]. **Groups** [HMMT04, HMMT05]. **Growth** [HH89, HHP21]. **Guide** [ALM99, HH00, Hig01b, HS22, HH05b, HH17].

H [CGO07, Hig90i, Hig06b, HF17]. **Half**

[Hig18e, HPZ19]. **Hamilton** [HS23]. **Hand** [HH92b]. **Handbook** [Hig93c, Hig94b, Hig98d, Hig20, Hog07]. **hardcover** [Hig05a]. **Hardy** [HH19]. **Harnessing** [HTDH18]. **held** [IP87, MP93, WG00]. **Henk** [Hig00c]. **Hermitian** [CH98b, CH99a, GHT09b, GHT10, HTV02]. **High** [Hig00c, Hig05a, THDC09, DGH20]. **High-Accuracy** [Hig05a]. **High-Performance** [Hig00c, THDC09, DGH20]. **Higham** [Ano22, Ano24a, Ano24b, Fis17, HT24, NN24]. **Higher** [HR14b]. **Historical** [Hig16b]. **Hopkins** [Hig90i]. **Hosts** [HHK93, Hig97c]. **Householder** [CH23, CH97b, CH98e]. **Howard** [Hig95e]. **Hundred** [Hig02e]. **Hyperbolic** [AH16, BHP03b, GHT09a, HK17, GHT08, HTV02].

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Lagrange [Hig04]. **Lambert** [CDHJ07, FHI15]. **Lancaster** [Hig05b, Hig05c]. **Lanczos** [Hig93b, Hig96b, Hig97a, BH95, BH96]. **LAPACK** [ACD+21, CH01a, Hig92d, Hig95d, Hig95a, Hig97b]. **Large** [HH89, HHP21, MGD93]. **Largest** [HR16]. **Laub** [Hig06a]. **Laurie** [Hig05a]. **Lax** [Hig99a, Hig99e]. **LDL** [Hig99f]. **Least** [BHP03b, CH97a, CH97b, CH98c, CH98d, CH98e, CH99c, CH00b, BHP03a, CHP20, CH99b, HP21]. **Lecture** [ALM99, Hig16a]. **lectures** [MP93]. **Leuven** [MGD93]. **Level** [DDP94, DH90b, DH92a, Hig90e, HR14b, DDHD90]. **Level-** [HR14b]. **Level-3** [DDP94, DH92a]. **like** [Hig88c, Hig90k]. **Line** [HK02, HK01]. **Linear** [ACD+21, Ano22, CH18, DDHD90, HH22, Hig85b, HS87, Hig90h, Hig91b, Hig91c, HH92a, HH92b, Hig94d, Hig94e, Hig95d, Hig95e, Hig97d, Hig97j, Hig98e, Hig99a, Hig99b, Hig00c, HHL01, HPZ19, Hog07,

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M [Hig90j]. **Machine** [BHH93]. **Magnus** [Hig96e]. **management** [GHP18]. **Managers** [Hig01b]. **Manchester** [GH04, Hig97c]. **Manycore** [SLEK19]. **March** [Hig92d]. **Mark** [Hig07c]. **Markov** [MP93]. **Maryland** [Hig90i]. **Matching** [AHH16]. **Math.** [Hig93b, Hig96b, Hig97a]. **Mathematical** [Hig93c, Hig94b, Hig94f, Hig98d, Hig16b, Hig20, HS22]. **Mathematicians** [GH04]. **Mathematics** [Hig96e, Hig99a, Hig00c, Hig02e, HDG+15, MP93, Hig14, HS23]. **MATLAB** [Hig89b, Hig91a, HH00, Hig02c, HH05b, HH17, HM22c, Hig93g, Hig95g]. **Matrices** [DH00, FH21b, Hig87c, Hig89b, Hig91a, Hig92e, Hig96c, HC96, HC98, Hig03a, Hig07c, Hig08b, HSŠ16, HHP21, FH21a, Hig98c, Hig07a, HL11a, Hig18b]. **Matrix** [AMH09a, AMH10b, AMH11, AMH12, AMHL22, AH16, BHH93, BHR10, CGO07, CH01a, CH01b, DH03, DH16, DH90c, DH92b, FHL23a, FHL+23b, GH06, Hig83a, Hig85a, Hig86b, Hig86c, Hig86d, Hig87a, Hig88a, Hig88b, Hig89c, Hig89d, Hig89e, Hig90a, Hig90e, Hig90d, Hig90g, HS90, Hig90i, Hig90j, Hig92a, Hig92e, Hig93d, Hig93g, Hig94c, HK95, Hig95g, Hig96f, Hig97e, Hig97f, Hig97h, HT00, HT01, HK02, HS03, HMMT04, HMMT05, Hig05d, HMT06, Hig07b, HMMT07b, HMT09, Hig09, HL11b, HR14b, Hig15, HL15, HS16b, HR16, HK17, HPZ19, HL21, HL22, NH18, AMH08, AMH09b, AMH10a, AMHR13, AMHR15, AHTW01, AH14, BHM05, BH10, CH00a, CHKL01, DH05, FHI15, FH18a, FH19, Fis17, GHP18, HHT08, HH05a, Hig83b, Hig97i, Hig99f, HK00, Hig01a, HK01, Hig02b, HT03, HMMT07a, Hig08a, HAM10]. **matrix** [HL13, HR14a, HS16a, HN16, HLS21, HM22c, ZH16, Hig02c, Hig06a, Hig08e, ZH16]. **Measures** [Hig91d, AHH16]. **Meeting** [Hig97c]. **memory** [SLEK19]. **Method** [BH95, BH96, CH97a, CH99c, DHT01, GH06, Hig86d, Hig92e, HP94c, Hig95b, Hig97g, HK02, Hig05d, Hig09, BBDH14, HK01, HS16a]. **Methods** [CH98d, CH00b, DH90c, DH92b, Hig90h, Hig91b, HK93a, Hig96e, Hig98b]. **Michael** [Hig01b, Hig02e]. **Microcomputer** [Hig85a, Hig86c]. **Milestones** [CGO07]. **MIMD** [DDP94]. **Mixed** [ABH+23, BHL+19, BHL+20, HBT+20, HM22a, HTDH18]. **Mixed-precision** [ABH+23, HBT+20, HTDH18]. **Model** [DDHD90]. **models** [MP93]. **Modified** [CH96b, CH98a]. **Modifying** [HC96, HC98]. **Mohy** [Fis17]. **Moler** [Hig99c]. **Moody** [Hig06b]. **MPI** [BBDH14]. **Multiple** [HH92b]. **Multiplication** [FHL+23b, Hig90e, Hig90g]. **Multiplications** [Hig92e]. **Multiply** [BHL+19, BHL+20]. **Multiply-Add** [BHL+19, BHL+20]. **Multiplying** [Hig92e]. **Multiprecision** [FH18a, Hig17a, HL21, Hig17b]. **Multiword** [FHL+23b].

N [Hig07c]. **Nat.** [Hig93b, Hig96b, Hig97a]. **NATO** [MGD93]. **Nearest** [BHR10, CH98b, Hig88b, HS16b, BH10, CH99a, Hig02b, HS16a]. **Nearness** [Hig85b, Hig89e, HTV02]. **Need** [FH21b]. **Neumaier** [Hig02d]. **Neumann** [Hig16a].

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