

A Bibliography of Publications by, and about, Michael J. D. Powell

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Abstract

This bibliography records publications of Michael J. D. Powell.

Title word cross-reference

A [IP81]. $\cdot$ [YGL10]. ℓ_∞ [BPR72]. L_1 [PR80, PY84]. L_2 [Pow68b]. L_∞ [PBR71, PY84]. LDL^T [FP74]. QR [CP88]. $\sqrt{3}$ [VWBD02].

-acceptability [IP81]. **-approximation** [BPR72]. **-subdivision** [VWBD02].

0-19-853614-3 [Gri87].

12th [Jac77]. **13th** [GW90]. **14th** [GW92].

15th [Jac77, Lig92]. **18th** [WG00]. **1968** [Mor69]. **1970** [RMR70]. **1973** [Eva74]. **1974** [GM74]. **1975** [Dix76, Wat76]. **1976** [Jac77, Pré79]. **1977** [GL79, MMR78, Pow77a, Ric77, Wat78]. **1981** [Wat82]. **1982** [BGK83]. **1983** [CSW83, CO80, GMSV84]. **1984** [BBS85]. **1985** [MC87]. **1986** [IP87, Gri87]. **1988** [MC90]. **1989** [HJ90]. **1990** [Lig92]. **1991** [GW92]. **1992** [LLC92]. **1996** [BI97].

2004 [DR06]. **2015** [BFIT17, BFIT18]. **23-27** [Pré79]. **29th** [WG00]. **2D** [LZ13]. **2D-3D** [LZ13]. **2nd** [WG00].

3D [LZ13]. **3rd** [Lig92].

60 [Sco23]. **6H2O** [YGL10]. **6th** [Pow77a, Wat76].

'87 [MT88].

9th [Pré79, Wat82].

A&M [CSW83]. **Accelerating** [AMF06]. **acceptability** [IP81]. **accuracy** [HP77]. **achieve** [DP91a]. **Action** [Dix76]. **Ado** [Kah87]. **Advanced** [Pow82]. **Advances** [Lig92, Pow71b]. **AlCl3** [YGL10]. **Algebra** [HS87]. **algebraic** [Pow68a, Pow70b]. **Algorithm** [AMF06, Bur73, GSY18, Qia17, RSR22, TtJ15, XJY⁺13, ZCW⁺20, AF03, AOF21, BPR72, CP87, DMP94, FGP05, KYO05, LZ13, Pow70f, Pow70g, Pow71a, PBR71, Pow72c, Pow76c, Pow77d, Pow78c, Pow81b, Pow85a, PY86, Pow88a, Pow89b, Pow90a, PY91, Pow92a, Pow93a, Pow95a, Pow97a, Pow98b, Pow00, SWL⁺06, TZP17, ZTBL11, WA15]. **Algorithms** [MC87, MC90, Pow75c, Pow78a, Pow79a, Pow86a, Pow87b, Pow98a, CPLP82, CP66b, DSS80, Pow72a, Pow72b, Pow73c, Pow74d, Pow75a, Pow83a, Pow84b, Pow84c, Pow88c, Pow90c, Pow94b, Pow96a, Pow98d, Pow07, Pow12, MC87, MC90]. **algorithmus** [Bur73]. **AMS** [RSS96]. **AMS-SIAM** [RSS96]. **Analysis** [AOF21, BC10, DW97, Gri87, GW92, IP87, Jac77, LD15, Pow79b, Wat78, Wat82, DMP94, GW90, Lig92, Pow77a, RSS96, Wat76, WG00, ZTBL11]. **antenna** [LD15]. **Application** [Qia17, TZP17, HP84, KYO05].

Applications

[Eva74, LLC92, PS00, RSR22, Fle69].

Applied [GL79, MT88, RSS96]. **Applying** [PR68b, PR68a, PR69]. **approach** [BS76].

Approximation [BI97, CP66a, GMSV84, Hay70, Pow81a, BPR72, BP92b, HJ90, MC87, MC90, PBR71, PR80, Pow83a, Pow90b, Pow92e, Pow02, CSW83, Chu82].

Approximations

[Pow67c, PS77, BP94, CP66b, IP81, Pow68b, Pow69b, Pow88b, Pow98d]. **April** [BFIT17, BFIT18, Eva74, IP87, Jac77].

Aproksimatsiya [Pau02]. **Arieh** [PN08].

array [MCPS86]. **Art**

[BGK83, DW97, Gri87, IP87, Jac77].

Artificial [LSLM15, DÖAK12]. **augmented** [Miz99]. **August** [BGK83, CO80, HJ90, Lig92, Mor69, Pré79, RSS96]. **Automatic** [WA15].

Bad [Pow86b]. **balance** [DMP94].

balance-based [DMP94]. **band** [Pow98d].

barrier [Pow92c, Pow95b]. **Bartels**

[Pow87b]. **Base** [YZM⁺18]. **Based**

[CSA16, TtJ15, XJY⁺13, ZCW⁺20, AF03, DMP94, GSY18, KLL12, LZ13, MC87, MC90, SWL⁺06, Sug14, YGL10, wZyTL⁺23, ZTBL11]. **Basis** [Buh03, BP90, FP00,

Pow87c, Pow88b, Pow92e, Pow99b]. **Beale**

[AOF21]. **beam** [LD15, MCPS86]. **Bee**

[LSLM15, DÖAK12]. **Bergamo** [DSS80].

best [Pow68b]. **Beyond** [Pow13]. **BFGS**

[Pow86b, Pow87d]. **Biennial**

[Wat76, Wat78, Wat82, WG00].

Birmingham [IP87]. **Birth** [BC10].

birthday [PN08]. **Bit** [Kah87]. **Bonn**

[BGK83]. **Book** [Chu82, Gri87, Pow69a,

Pow73a, Pow74a, Pow76a]. **Boulder**

[BBS85]. **bounds** [Pow75b, Pow88a, Pow14].

Box [EM06]. **BP** [YGL10]. **Branch**

[Kah87]. **breaker** [wZyTL⁺23]. **brief**

[Sco23]. **Bristol** [Dix76]. **Broyden** [Pow13].

Budapest [Pré79]. **Building** [EA22].

Building-Integrated [EA22].

Calculating

[Pow64a, Pow65, CP66b, Pow64b].

Calculation [Pow68c, And69].

Calculations [Pow98a, Pow78b, Pow78c, Pow83a, Pow84a, Pow86c, Pow87a, Pow89b, Pow92b, Pow92c, Pow98c]. **Cambridge**

[BI97, Pow82, PS00, Pow99b]. **Canada**

[EA22]. **Carlo** [PS66]. **Cartesian** [EM06].

Case [RSR22]. **CDS** [DÖAK12]. **Center**

[Ric77, RMR70]. **change** [DP91b]. **Channel**

[YZM⁺18]. **Channel-Base** [YZM⁺18].

Chaotic [ZCW⁺20]. **characterization** [PR80]. **circuit** [DMP94, wZyTL⁺23]. **City** [RSS96]. **Clarendon** [Gri87]. **class** [Pow75a]. **classical** [Pow69b].
Classification [Qia17]. **College** [CSW83, MC87, MC90]. **Colony** [LSLM15, DÖAK12]. **Colorado** [BBS85].
Coloring [RSR22]. **combination** [WZL⁺23]. **Combined** [Sas69]. **Committee** [Pow82]. **comparison** [Pow69b]. **Complex** [Kah87]. **complexity** [Pow92a].
comprehensive [LSLM15]. **computation** [Pow74d]. **computer** [Pow61]. **Computing** [GL79, HS87]. **conditionally** [MPJ81].
Conditions [CP66a, PY84, Pow80a, Pow04a].
Conducted [RMR70, Ric77]. **Conf** [Wat76].
Conference [BBS85, Eva74, GMSV84, Gri87, GW92, IP87, Jac77, LLC92, MC87, MC90, MT88, Pow73b, PS00, Wat78, Wat82, WG00, BI97, Dix76, GW90]. **Congress** [CO80, Mor69]. **Conjugate** [AOF21, EA22, Pow87d, Pow76b, Pow77e, Pow84a, Pow90c].
Constrained [GM74, CPLP82, Pow74b, Pow78b, Pow78c, Pow79c, Pow80b, Pow83b, Pow85b, Pow89a, Pow89b, PY91, TS99].
constraint [Pow94a]. **constraints** [Pow67b, Pow69e, Pow74e, Pow78a, Pow79a, Pow86c, Pow87a, Pow15]. **content** [YGL10].
Continuous [THB18]. **contour** [LD15, Pow74c]. **Contrast** [CSA16].
Contribution [Pow77a]. **control** [TS99].
Convergence [BP75, Pow75a, Pow86a, Bur73, CPLP82, CP66b, FP99, GP83, Pow71a, Pow76b, Pow76c, Pow78b, PY84, Pow84b, Pow84c, Pow94c, Pow95b, Pow00, Pow10b, Pow12].
Convergent [FP63]. **convexity** [DP91b].
Cooled [EA22]. **correction** [BPR72, CP87, PBR71]. **Correspondence** [And69]. **Courses** [RSR22]. **cover** [Gri87].
Criteria [Pow67c]. **Cubic** [MP73, Pow69d, Pow70a, Pow67a]. **Cuckoo** [GSYP18]. **Current** [YZM⁺18]. **Curve** [Pow67a, Pow70a, Pow99a]. **curves** [Pow95a, Pow96b]. **Cuts** [Kah87]. **Cyclic** [BP75]. **cycling** [Pow81b].
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Davidon [AF03, AMF06, Pow77d]. **days** [WG00]. **December** [GL79, GMSV84].
decomposition [MPJ81, WA15].
Dedicated [PN08]. **Defined** [Pow67c, Pow01]. **Dependence** [Pow69d].
Derivative [CSA16, Pow81c, Pow98d].
Derivative-Free [CSA16]. **Derivatives** [Pow64a, Pow65, Pow75c, Pow64b, Pow70c, Pow70d, Pow74d, Pow03, Pow04b, Pow06, Pow07, Pow08, Pow12, Pow13]. **Descent** [FP63]. **design** [DÖAK12, KYO05, SWL⁺06]. **designing** [LCL⁺10]. **Developments** [Pow08, Fle87].
DFP [Pow86b, Pow00]. **diagnosis** [wZyTL⁺23]. **differences** [CP82, DP97].
differentiable [PY86]. **Differential** [THB18, XD04, BPR72, CP87, PBR71, WZL⁺23]. **difficult** [Pow85b]. **dimensional** [Pow92d]. **dimensions** [BGP96, BPT07, FP99, FGP05, Pow94c, Pow95a, Pow96a, Pow96b, Pow97a, Pow98b, Pow99a]. **Direct** [Pow98a, SRK12, Pow94a]. **Direction** [EA22, ZGGZ09, XD04]. **Directions** [Pow87d, Pow73c, Pow90c]. **discrete** [PR80, Pow83a]. **discussion** [Pow69b, Pow72a]. **Displacement** [ZTBL11]. **Distribution** [AOF21].
distributional [SWL⁺06]. **divided** [CP82]. **dividers** [KYO05]. **Do** [Pow75c]. **dogleg** [Miz99]. **Dr.** [Pow77a]. **dual** [Pow14].
Duisburg [HJ90]. **Dundee** [GW90, GW92, Wat76, Wat78, Wat82, WG00]. **during** [WG00]. **Dyadic** [VWBD02].
Edinburgh [Mor69]. **Editorial** [MP81]. **eds** [Gri87]. **Efficient** [Pow64a]. **Eigenvalue**

[Wil87]. **elastography** [ZTBL11]. **Electric** [AOF21, EHL82a, EHL82b]. **Elementary** [Kah87]. **elimination** [HP84]. **employs** [BP94]. **Engineering** [GL79]. **England** [DSS80, Fle69]. **Entropy** [CSA16, Pow88a]. **equality** [PY91]. **equations** [HP77, Pow68a, Pow70b, Pow70e, Pow75b, PY84, Pow88c, TZP17]. **Erice** [DR06]. **Error** [Pow87b]. **Errors** [Pow67c]. **Estimation** [PT79, ZCW⁺20, ZTBL11]. **evaluation** [BPT07, Pow93b]. **evolution** [WZL⁺23, XD04]. **Evolutionary** [THB18]. **exact** [Pow76c, PY86]. **example** [Pow81b]. **exchange** [CP66b]. **expanded** [LZ13]. **expansions** [Pow93b]. **exponential** [IP81]. **Extensions** [EM06, Pow74e].

Fabrication [KLL12]. **factorization** [CP88, Pow89a]. **Factorizations** [Pow87b, FP74]. **Fast** [BPT07, AF03, Pow78c, Pow93b, Pow15]. **fault** [wZyTL⁺23]. **FDG_CT** [WA15]. **feasible** [Pow81b]. **Federation** [Mor69]. **Fiacco** [Pow69a]. **film** [KLL12, LCL⁺10]. **Filter** [SRK12, DÖAK12]. **filters** [KLL12, LCL⁺10]. **Finding** [Pow62, Pow64a]. **fine** [Pow92d]. **finite** [BP92a]. **Firefly** [XJY⁺13]. **First** [MT88, Pow70c, Pow70d]. **Fitting** [Pow70a, DS08, DP97, Pow67a, Pow74c, Pow77c]. **Fixed** [EHL82a, EHL82b]. **Fixed-Head** [EHL82a, EHL82b]. **Fletcher** [AF03, AMF06, Bur73, BS76, Bur73, MCPS86, Pow87b, Sas69]. **Florida** [GMSV84]. **Flows** [Sas69]. **FLT_CT** [WA15]. **fly** [TZP17]. **forcing** [CPLP82]. **forest** [wZyTL⁺23]. **Foreword** [Pow77b, PN08]. **Formula** [Pow87d]. **formulae** [Pow81c]. **FORTRAN** [MP73, Pow70c, Pow70d, Pow68a, Pow69c, Pow70b]. **fourth** [Lig92]. **France** [MT88]. **Free** [CSA16]. **Frobenius** [Pow04a]. **fruit** [TZP17]. **full** [Pow69c]. **Function** [MP73, Pow62, Pow64a, Pow86b, YZM⁺18,

BP90, FP00, IP81, Pow70c, Pow70d, Pow88b, Pow92e]. **Functions** [Buh03, Hay70, Kah87, MC87, Pow65, BP94, CP87, HP84, Pow61, Pow64b, Pow77c, Pow78a, Pow79a, PY86, Pow87c, Pow94a, Pow94b, Pow99b, Pow01]. **fuzzy** [TS99].

G [Pow69a]. **gains** [HP77]. **Gaussian** [HP84]. **General** [Pow83a]. **generalized** [CP87, HP84]. **Genetic** [WA15]. **German** [Bur73]. **gives** [DP91b]. **Global** [WZL⁺23, Pow76c, Pow84b, SWL⁺06]. **Goldfarb** [Pow85a]. **Golub** [Pow87b]. **Gradient** [AOF21, Pow80a, Pow76b, Pow77e, Pow84a]. **Graph** [RSR22]. **grid** [BP92a, BP90, Pow92d]. **Group** [MMR78]. **Growth** [Pow87b]. **Guided** [THB18].

H [Pow77a]. **Handling** [SRK12, Pow61]. **hard** [Gri87]. **harmonic** [DMP94]. **Hartley** [CSA16]. **Hartley-Entropy-Based** [CSA16]. **Hatfield** [DSS80]. **Head** [EHL82a, EHL82b]. **Held** [Wat78, BGK83, DR06, Dix76, DSS80, Eva74, GM74, GMSV84, HJ90, IP87, Jac77, MC87, MC90, Pow77a, Pow82, Wat82, WG00]. **Hessian** [Miz99, PT79]. **Hestenes** [Sug14]. **high** [wZyTL⁺23]. **history** [Sco23]. **Householder** [PR68b, PR68a, PR69]. **HS** [Qia17]. **HSL** [Sco23]. **Hybrid** [EHL82a, EHL82b, ZCW⁺20, Pow70e]. **Hydro** [EHL82a, EHL82b]. **Hydro-Thermal** [EHL82a, EHL82b]. **hypercube** [CP88].

ICA [CSA16]. **ICIAM** [MT88]. **Identifying** [YZM⁺18]. **Idnani** [Pow85a]. **IFIP** [Mor69, PS00]. **IFIP-TC7** [PS00]. **II** [MC90, Lig92, Pow72b]. **III** [Ric77]. **IIR** [DÖAK12]. **IMA** [Gri87, IP87, MC87]. **IMA/SIAM** [IP87]. **Image** [Qia17, TtJ15, XJY⁺13, ZGGZ09, LZ13, XD04]. **images** [WA15]. **implementation** [SWL⁺06].

Implementations [Buh03]. **improved** [LZ13]. **Incremental** [Yav22, DÖAK12]. **Indian** [LD15]. **Industrial** [MT88]. **infinite** [BP90, Pow91a, Pow92b, Pow92c]. **Information** [Mor69, LZ13, Mor69]. **Institute** [Eva74, Fle69, Pow82]. **Integer** [Aba70]. **Integrated** [EA22]. **integrating** [WA15]. **Interest** [MMR78]. **Interior** [Pow92b]. **International** [CSW83, CO80, GL79, LLC92, MC90, MT88, Mor69, Pré79, BGK83, DSS80, HJ90]. **interpolate** [IP81]. **Interpolation** [DS08, GP76, GMSV84, Pow67c, Pow97b, BP92a, BP92b, BP94, BGP96, BP90, FP99, FP00, FGP05, HP84, HJ90, Pow69b, Pow87c, Pow91b, Pow94a, Pow94b, Pow94c, Pow96a, Pow97a, Pow01, Pow04a]. **Interview** [Sun06, Vic03, Dav05]. **Introduction** [Pow74b]. **Inverse** [Pow69g, Sug14]. **invert** [Pow69c]. **ISBN** [Gri87]. **Iserles** [Gri87, PN08]. **Italy** [DR06, DSS80]. **iterations** [Pow93a]. **Iterative** [Pow62, BP94, FP99, Pow97a].

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Kalman [SRK12]. **Karmarkar** [Pow90a, Pow91a, Pow92a, Pow93a]. **Keele** [Fle69]. **kinematics** [Sug14]. **Kingdom** [GMSV84]. **konvergenzordnung** [Bur73]. **Krylov** [FP00, FGP05].

Laboratory [GM74]. **Lagrange** [BP94, Pow80a, Pow01, Pow14]. **Lagrangian** [Pow78a, Pow79a]. **Lancaster** [Lig92]. **Large** [DR06, BS76, DR06]. **Large-scale** [DR06]. **Lattice** [EM06]. **Laurent** [Pow93b]. **Learning** [AMF06, TS99, Yav22, LSLM15, Miz99]. **Least** [DP91a, DP97, Pow67c, PR68b, PR68a, PR69, Pow69d, Pow04a, CP88, Miz99]. **least-squares** [CP88, Miz99]. **library** [Sco23]. **Lightning** [YZM⁺18]. **line** [Pow76c]. **Linear** [HS87, MCPS86, Pow65, PR68b, PR68a, PR69, BP92a, CP88, Fle87, HP77, Pow64b, Pow67b, Pow68a, Pow75b, PR80, Pow90b, Pow92a, Pow93a, Pow94a, Pow95a, Pow95b, Pow98b, Pow15]. **linearly** [Pow89a, Pow89b]. **Load** [Sas69]. **Local** [Pow69d]. **Localization** [SRK12]. **Log** [Pow92c, Pow95b]. **London** [Pow77a]. **Lorenz** [ZCW⁺20]. **Loughborough** [Eva74, Pow73b]. **Ltd** [Pow69a].

M [Chu82, Gri87]. **M.** [BI97, Vic03]. **Madison** [MMR78, Ric77, RMR70]. **manifolds** [DS08]. **many** [FGP05]. **mapping** [Pow96b]. **March** [Ric77]. **Mathematical** [BGK83, MMR78, Pow82, Pré79, Sco23, Pow73b, Ric77]. **Mathematicians** [CO80]. **Mathematics** [BI97, Eva74, Fle69, MT88, Ric77, RSS96, RMR70]. **Matrices** [PT79, Rei87, GP83, MPJ81, Pow81c, PT81, Pow90c, Pow98d]. **Matrix** [Pow69g, Pow87b, Pow69c, Pow81d, Pow89a]. **Matthews** [Pow87b]. **maximizing** [Pow88a]. **Maximum** [Pow67c]. **May** [RMR70]. **McCormick** [Pow69a]. **Medical** [TtJ15, XJY⁺13, LZ13, XD04]. **Method** [CSA16, EHL82a, EHL82b, EA22, FP63, Pow62, Pow64a, Pow65, PR68b, SRK12, THB18, YZM⁺18, Yav22, ZGGZ09, BP94, KLL12, LCL⁺10, LZ13, Pow64b, Pow67b, Pow69e, Pow70e, Pow76b, Pow77e, Pow81d, Pow84a, Pow91a, Pow94a, Pow95b, Pow96b, Pow14, SWL⁺06, Sug14, TS99, WA15, WZL⁺23, XD04, ZTBL11]. **Methods**

[BP75, GM74, GL79, Pow70i, Pow81a, Pow86b, Pow86c, Pow87a, Pow97b, PS00, Sas69, FP00, Pow69b, Pow69f, Pow70h, Pow77c, Pow78b, Pow79c, Pow80b, Pow83b, Pow92b, Pow92c, Pow03, Pow10b, Pow15, SDV08, Chu82]. **Metodi** [Pau02]. **metric** [GP83, Pow71a, Pow72c, Pow76c, Pow77d, Pow78b, Pow79c, Pow80b, Pow83b, Pow84c]. **Metropolitan** [AOF21]. **Michael** [Sun06, BFIT17, BFIT18, Dav05]. **Microstrip** [LD15]. **Middlesex** [GM74]. **Mike** [CGTxY15]. **Military** [MC87, MC90]. **Minimax** [CP66a, CP66b, HP77, Pow75b]. **minimising** [Pow64b]. **Minimization** [FP63, Pow69a, Pow75c, Pow67b, Pow69e, Pow70c, Pow70d, Pow72a, Pow72b, Pow73c, Pow74d, Pow74e, Pow75a, Pow76c, Pow84b, Pow84a, Pow03, Pow04b, Pow08, Pow12, Pow13]. **Minimizing** [CSA16, Pow65]. **Minimum** [Pow64a, DP91b]. **modeling** [YGL10]. **Modelling** [PS00]. **models** [Pow94a, Pow01, Pow04a, Pow04b, Pow13, Pow15]. **modification** [DMP94, FP74]. **Modifications** [Pow69g]. **modified** [LZ13, LSLM15, Pow95b, WZL⁺23]. **monotonicity** [DP91a]. **Monte** [PS66]. **moving** [Pow99a]. **Much** [Kah87]. **Multi** [THB18, XJY⁺13, KYO05]. **Multi-Objective** [THB18]. **Multi-Resolution** [XJY⁺13]. **Multi-Tasking** [THB18]. **multi-way** [KYO05]. **Multigrid** [SDV08, BGP96]. **Multilayer** [AMF06, AF03, KLL12, LCL⁺10]. **multiplier** [Sug14]. **multipliers** [Pow80a]. **multiprocessor** [CP88]. **multiquadric** [BP92a, BP92b, FGP05, Pow90b, Pow91b]. **Multivariable** [Pow97b, Pow87c]. **Multivariate** [HJ90]. **mutual** [LZ13].

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[DMP94, EHL82a, EHL82b, Miz99, Pow81c]. **NEWUOA** [Pow06, Pow08]. **Non** [Pow65, Pow64b, Pow67b, Pow68a]. **Non-Linear** [Pow65, Pow64b, Pow67b, Pow68a]. **Nonconvex** [Pow84a]. **Nonlinear** [Aba70, MMR78, Pow82, Pow86a, RMR70, Sas69, DR06, Miz99, Pow69e, Pow70b, Pow70e, Pow78a, Pow79a, Pow80a, Pow83a, PY84, Pow86c, Pow87a, Pow88c, Pow90a, Pow10a, TZP17, DSS80, Pow69a]. **nonlinearly** [Pow78b, Pow78c]. **norm** [Pow04a]. **note** [Pow81c]. **Notes** [Mor82]. **Nothing** [Kah87]. **Notice** [LD15]. **number** [Pow93a]. **Numerical** [BBS85, BI97, BC10, DW97, Eva74, GM74, Gri87, GW92, Hay70, HS87, IP87, Jac77, Pow70i, Pow77c, Pow79b, Wat76, WG00, Lig92, Pow77a, RSS96, ZTBL11, BBS85, GW90, Wat78, Wat82, WG00].

Obituary [CGTxY15]. **Object** [SRK12]. **Objective** [Pow86b, THB18, Pow70c, Pow70d, Pow94a]. **occasion** [PN08]. **Occlusion** [SRK12]. **One** [Pow69g, Pow69f, Pow70h]. **only** [Pow00]. **onto** [Pow99a]. **Operation** [EHL82a, EHL82b]. **optical** [KLL12, LCL⁺10]. **Optimal** [GP76, Sas69, Pow99a]. **optimisation** [DSS80]. **Optimization** [BI97, Dix76, EA22, GM74, LD15, Pow70i, Pow82, Pow86a, Pow98a, PS00, THB18, YZM⁺18, ZGGZ09, BS76, BBS85, CPLP82, DR06, GP83, KLL12, KYO05, MCPS86, Mor82, Pow69f, Pow70f, Pow70g, Pow70h, Pow71b, Pow74b, Pow76d, Pow78b, Pow78c, Pow79c, Pow80b, Pow83b, Pow84c, Pow85b, Pow86c, Pow87a, Pow88c, Pow89a, Pow89b, PY91, Pow90c, Pow94a, Pow00, Pow02, Pow06, Pow07, Pow10b, Pow10a, SWL⁺06, TZP17, WZL⁺23, ZTBL11, Fle69, LLC92]. **optimized** [wZyTL⁺23]. **optimizer** [LSLM15]. **Optimum** [EHL82a, EHL82b].

order [Bur73]. **organized** [Mor69].
Orthogonal [Pow68c, And69].
overdetermined [HP77, PY84]. **Oxford**
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P [Pow69a]. **pages** [Pow69a]. **panel**
 [Pow82]. **Parallel** [KYO05, SWL+06].
Parameter [ZCW+20]. **Parameters**
 [YZM+18]. **Paris** [MT88]. **Park** [RSS96].
Particle [YZM+18, ZGGZ09]. **path**
 [Pow98b]. **penalty** [PY86]. **Perceptron**
 [AMF06, AF03]. **performance** [Pow85b].
Photovoltaics [EA22]. **Physical** [GM74].
Piecewise
 [Pow74c, PS77, DP91a, Pow95a, Pow98b].
plate
 [BP94, BGP96, FP99, Pow92d, Pow93b,
 Pow94b, Pow94c, Pow96a, Pow96b, Pow97a].
Plotting [MP73, Pow74c]. **plus** [BP92a].
point [Pow81b, Pow92b]. **Points**
 [Pow97b, Pow99a]. **polyharmonic** [BPT07].
Polynomial [Pow67c, BP92a]. **polynomials**
 [Pow88b, Pow90b]. **Polytechnic** [DSS80].
Population [Yav22]. **positive** [MPJ81].
positive-semidefinite [MPJ81]. **Powell**
 [BFIT17, BFIT18, Bur73, Chu82, Gri87,
 AF03, AMF06, AOF21, BS76, BI97, Bur73,
 CGTxY15, CSA16, DMP94, Dav05, DS08,
 DÖAK12, EHL82a, EHL82b, EA22, EM06,
 GSY18, KLL12, KYO05, LD15, LCL+10,
 LZ13, LSLM15, MCPS86, Miz99, Qia17,
 RSR22, SRK12, Sas69, SWL+06, SDV08,
 Sug14, Sun06, TS99, TZP17, TtJ15, THB18,
 VWBD02, Vic03, WA15, WZL+23, XJY+13,
 XD04, YGL10, YZM+18, Yav22, ZGGZ09,
 wZyTL+23, ZTBL11, ZCW+20].
Powell-based [GSYP18]. **Powell-BP**
 [YGL10]. **Powell/Beale** [AOF21]. **Power**
 [EHL82a, EHL82b, BS76, KYO05]. **Press**
 [Gri87]. **prioritized** [Sug14]. **problem**
 [PR80]. **Problems**
 [PR68b, PR68a, PR69, Wil87, CP88,
 Pow67b, Pow69e, Pow85b, Pow89a]. **Proc.**
 [Wat76]. **procedure** [AF03, PT81].

procedures [Pow77e]. **Proceedings**
 [CSW83, Eva74, GMSV84, GW92, IP87,
 Jac77, Pow77a, Ric77, RMR70, Wat78,
 Wat82, BGK83, BBS85, Dix76, DSS80,
 GM74, GW90, HJ90, MC87, MC90, MT88,
 Mor69, Pow82, Pré79, CO80, GL79, Lig92,
 MMR78]. **processing** [KYO05, Mor69].
Professor [Sun06]. **programme** [Pow82].
Programming
 [Aba70, BGK83, MMR78, Pow69a, Pow82,
 RMR70, Sas69, Fle87, Pow80a, Pow81d,
 Pow85a, PY86, Pow90a, Pow91a, Pow92a,
 Pow92b, Pow92c, Pow93a, Pow95b, Pré79].
projected [DS08]. **Proof** [FP99]. **Proofs**
 [Pow72b]. **Properties**
 [Pow86a, Pow72a, Pow72b, Pow72c, Pow75a,
 Pow76b, Pow76c, Pow77d, Pow95b]. **PSO**
 [wZyTL+23].

QPSO [TtJ15]. **Quadratic** [Pow72a,
 Pow72b, PS77, Pow77d, Pow86b, Fle87,
 Pow74c, Pow81d, Pow85a, PY86, Pow01,
 Pow02, Pow04a, Pow04b, Pow13, Pow15].
quasi [BP92b, Miz99, Pow81c].
quasi-interpolation [BP92b].
quasi-Newton [Miz99, Pow81c].

Radial [BP90, Buh03, Pow87c, Pow88b,
 FP00, Pow92e, Pow99b]. **random**
 [wZyTL+23]. **range** [Pow10b]. **Rank**
 [Pow69f, Pow69g, Pow70h, Pow69c].
Raphson [EHL82a, EHL82b]. **Rapidly**
 [FP63]. **rate** [Pow84c]. **rational** [BPR72,
 CP87, HP84, IP81, PBR71, GMSV84]. **Real**
 [SRK12]. **Real-Time** [SRK12].
Reconstruction [EM06]. **rectangular**
 [Pow69c]. **recursive** [PY86]. **reducing**
 [PS66]. **Reflectarray** [LD15]. **region**
 [Miz99, Pow84b, PY91, Pow98c, Pow98d,
 Pow03, Pow10b, Pow12, Pow15].
Registration [TtJ15, XJY+13, ZGGZ09,
 LZ13, WA15, XD04]. **regular**
 [BP92a, BP90]. **Remote** [ZGGZ09].
Removal [LD15]. **repeated** [DSS80].

reproduction [Pow90b]. **Require** [Pow75c]. **requiring** [Pow70c, Pow70d]. **Research** [Pow82, Ric77, RMR70, TtJ15, wZyTL⁺23, Pow99b]. **Resolution** [XJY⁺13]. **Restart** [Pow77e]. **Restarts** [AOF21]. **restrictions** [DP97]. **results** [Pow72a, Pow91b]. **Review** [Chu82, Gri87, Pow69a, Pow73a, Pow74a, Pow76a, Pow97b, Pow87c, Pow88c, Pow96a]. **revisited** [Pow98c]. **Riemannian** [CSA16]. **Robust** [Sug14]. **Royal** [MC87, MC90]. **rules** [TS99].

Sabin [DS08, SDV08, VWBD02]. **sampling** [PS66]. **SAO** [Pow14]. **satisfy** [Pow04a]. **scale** [DR06]. **Scattered** [Pow97b, BP92b, DS08]. **Scheduling** [RSR22]. **Scheme** [Pow61]. **School** [Lig92, DSS80]. **Science** [MC87, MC90, Pow82]. **Sciences** [GL79]. **Scotland** [Wat82]. **Search** [GSYP18, Pow98a, THB18, LSLM15, Pow73c, Pow94a]. **searches** [Pow76c]. **Second** [MC90, DP97, Pow81c, Pow98d]. **semi** [Pow91a, Pow92b, Pow92c]. **semi-infinite** [Pow91a, Pow92b, Pow92c]. **semidefinite** [MPJ81]. **Seminar** [RSS96]. **Senior** [Yav22]. **Sensing** [ZGGZ09]. **sensor** [YGL10]. **September** [DSS80]. **sequence** [Pow99a]. **Sequential** [Pow69a]. **Series** [Gri87]. **Set** [SRK12, ZGGZ09, XD04]. **Several** [Pow62, Pow64a]. **Shanno** [PT81]. **shaping** [MCPS86]. **Shrivenham** [MC87, MC90]. **SIAM** [BBS85, IP87, RSS96]. **Sign** [Kah87]. **signs** [DP97]. **simple** [Pow88a]. **Simulative** [AOF21]. **since** [Pow10a]. **Singapore** [LLC92]. **sixtieth** [PN08]. **smoothing** [CP82, DP91a]. **smooths** [Pow95a]. **Society** [Pow82]. **Soft** [YGL10]. **Software** [Eva74, Pow73b, Mor82, Pow06, Ric77, Sco23]. **solution** [HP77, Pow75b, Sug14]. **solutions** [PY84, TZP17]. **Solving** [THB18, Pow68a, Pow70b]. **Some** [Pow72c, Pow76b, Pow76c, Pow94b, Pow95b, Pow85b, Pow91b]. **Sons** [Pow69a]. **Sparse** [PT79, Rei87, Pow81c, PT81]. **Special** [MMR78, Pow82]. **speed** [HP77]. **Spline** [EM06, MP73, BP94, BGP96, FP99, Pow68b, Pow69b, Pow94b, Pow94c, Pow96a, Pow96b, Pow97a]. **Splines** [Pow69d, Pow70a, BPT07, DS08, Pow67a, Pow92d, Pow93b, SDV08, VWBD02]. **sponsored** [Pow82]. **Squares** [Pow65, Pow67c, PR68b, PR68a, PR69, Pow69d, CP88, DP91a, DP91b, DP97, Miz99, Pow64b]. **State** [BGK83, DW97, Gri87, IP87, Jac77]. **Statement** [Pow72a]. **States** [GMSV84]. **Station** [CSW83]. **Stationary** [Pow62]. **Statistical** [HS87]. **steps** [Miz99]. **straightening** [Pow98b]. **straightens** [Pow95a]. **strain** [ZTBL11]. **Strategy** [Yav22]. **string** [Pow98b]. **Study** [RSR22]. **subdivision** [VWBD02]. **subject** [DP97, Pow75b, Pow88a]. **Subroutine** [MP73, Pow68a, Pow69c, Pow70b, Pow70c, Pow70d]. **subroutines** [Pow85b]. **subspace** [FP00, FGP05]. **suitable** [Pow91a]. **Sum** [Pow65, DP91b, Pow64b]. **Summer** [Lig92, RSS96, DSS80]. **superlinear** [PY84]. **surface** [Pow74c]. **Survey** [Pow70i, Pr 79]. **Swarm** [YZM⁺18, ZGGZ09]. **symmetric** [PT81, Pow13]. **Symposium** [CSW83, Fle69, GL79, MMR78, Pr 79, RMR70, BGK83, GM74, Pow77a, Ric77]. **System** [PS00, ZCW⁺20, BS76]. **Systems** [EHL82a, EHL82b, Pow68a, Pow70b, Pow82].

Tabulation [Pow92d]. **Tampa** [GMSV84]. **Tasking** [THB18]. **taut** [Pow98b]. **TC7** [PS00]. **technique** [CPLP82, FP99, HP77, PS66]. **Techniques** [LLC92, BGP96, Pow69a]. **Technology** [Eva74]. **Teddington** [GM74]. **Teoriya** [Pau02]. **termination** [Pow72a, Pow72b, Pow77d]. **test** [Pow85b]. **Texas** [CSW83]. **Theorem** [Pow69g, PR80]. **theorems** [Pow72b]. **Theory** [BI97, Buh03, Chu82, Pow81a, PS00, CSW83,

DSS80, Pow92e]. **there** [Pow00]. **Thermal** [EHL82a, EHL82b]. **thin** [BP94, BGP96, FP99, KLL12, LCL⁺10, Pow92d, Pow93b, Pow94b, Pow94c, Pow96a, Pow96b, Pow97a]. **thin-film** [KLL12, LCL⁺10]. **Third** [GL79]. **three** [BPT07]. **Time** [SRK12]. **Toint** [PT81]. **tolerant** [Pow89b]. **Tracking** [SRK12]. **training** [AF03]. **Transformations** [PR68a, PR69]. **Triangles** [PS77]. **triangular** [Pow81d]. **tributes** [BI97]. **Truncated** [Pow93b]. **Trust** [Pow98c, Miz99, Pow84b, PY91, Pow98d, Pow03, Pow10b, Pow12, Pow15]. **trust-region** [Miz99]. **two** [BGP96, FP99, Pow77c, Pow85b, Pow92d, Pow94b, Pow94c, Pow95a, Pow96a, Pow96b, Pow97a, Pow98b, Pow99a, Pow00]. **two-dimensional** [Pow92d].

UK [PS00]. **ultrasound** [ZTBL11]. **Unconstrained** [Pow69a, Pow70i, Pow74d, Pow74e, Pow75c, GP83, Pow69f, Pow70c, Pow70d, Pow70f, Pow70g, Pow70h, Pow71b, Pow76d, Pow84b, Pow84c, Pow88c, Pow00, Pow02, Pow03, Pow04b, Pow06, Pow10b, Pow12]. **uniform** [PS66, Pow94c, SWL⁺06, VWBD02]. **United** [GMSV84]. **Univ** [Wat76]. **Univariate** [BP92a, BP92b, Pow90b, Pow91b, DP91a, DP91b, DP97]. **University** [BGK83, CSW83, Dix76, DSS80, Eva74, IP87, Jac77, Lig92, MMR78, Ric77, RMR70, WG00, HJ90]. **unknown** [Pow79d]. **UOBYQA** [Pow02]. **Updating** [Pow87b, Pow87d, PT81, Pow90c, Pow04a, Pow13]. **upper** [Pow81d]. **Use** [Sas69, Pow78a, Pow79a, Pow98d, Pow04b]. **uses** [PY86]. **Using** [EA22, SRK12, AOF21, DS08, DÖAK12, LD15, MCPS86, RSR22, WZL⁺23]. **Utah** [RSS96].

V [Pow69a]. **Values** [Pow62]. **Variable** [Pow79c, Pow80b, Pow83b, GP83, Pow71a,

Pow72c, Pow76c, Pow77d, Pow78b, Pow84c]. **Variables** [Pow62, Pow64a, Pow75b, Pow77c, Pow94b, Pow00, Pow14]. **variance** [PS66]. **Vectors** [Pow68c, And69]. **Versailles** [GL79]. **Versus** [EHL82a, EHL82b]. **very** [Pow92d]. **View** [Pow75c, Pow76d, Pow90a, Pow07]. **Vol.** [Lig92]. **voltage** [wZyTL⁺23]. **Volumes** [LLC92]. **Volumetric** [EM06].

was [Pow82, WG00]. **watchdog** [CPLP82]. **wavelet** [WA15, ZTBL11]. **way** [KYO05, Pow99a]. **Weighted** [PS66]. **Welch** [RSR22]. **which** [Pow82]. **wide** [Pow10b]. **Wiley** [Pow69a]. **Wilkinson** [Pow77a]. **Wisconsin** [MMR78, Ric77, RMR70]. **Without** [Pow65, Pow64a, Pow64b, Pow74d, Pow76c, Pow03, Pow04b, Pow06, Pow07, Pow08, Pow12, Pow13]. **Workshop** [DR06, HJ90].

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