# Joab R Winkler

List of Publications by Year
in descending order



| 35 | 261 | 933447 10 | 1058476 14 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 35 | 35 | 35 | 71 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The application of regularisation to variable selection in statistical modelling. Journal of Computational and Applied Mathematics, 2022, 404, 113884. | 2.0 | 8 |
| 2 | An approximate factorisation of three bivariate Bernstein basis polynomials defined in a triangular domain. Journal of Computational and Applied Mathematics, 2021, 390, 113381. | 2.0 | 2 |
| 3 | The computation of the greatest common divisor of three bivariate Bernstein polynomials defined in a rectangular domain. Applied Numerical Mathematics, 2021, 166, 348-368. | 2.1 | 0 |
| 4 | Condition estimation for regression and feature selection. Journal of Computational and Applied Mathematics, 2020, 373, 112212. | 2.0 | 6 |
| 5 | The computation of the degree of the greatest common divisor of three Bernstein basis polynomials. Journal of Computational and Applied Mathematics, 2020, 373, 112373. | 2.0 | 3 |
| 6 | The Sylvester and BÃ©zout Resultant Matrices for Blind Image Deconvolution. Journal of Mathematical Imaging and Vision, 2018, 60, 1284-1305. | 1.3 | 2 |
| 7 | A non-linear structure-preserving matrix method for the computation of the coefficients of an approximate greatest common divisor of two Bernstein polynomials. Journal of Computational and Applied Mathematics, 2017, 320, 221-241. | 2.0 | 9 |
| 8 | The computation of the degree of an approximate greatest common divisor of two Bernstein polynomials. Applied Numerical Mathematics, 2017, 111, 17-35. | 2.1 | 9 |
| 9 | Polynomial computations for blind image deconvolution. Linear Algebra and Its Applications, 2016, 502, 77-103. | 0.9 | 4 |
| 10 | The Sylvester Resultant Matrix and Image Deblurring. Lecture Notes in Computer Science, 2015, , 461-490. | 1.3 | 1 |
| 11 | A structure-preserving matrix method for the deconvolution of two Bernstein basis polynomials. Computer Aided Geometric Design, 2014, 31, 317-328. | 1.2 | 0 |
| 12 | Structured matrix methods for the computation of multiple roots of a polynomial. Journal of Computational and Applied Mathematics, 2014, 272, 449-467. | 2.0 | 6 |
| 13 | Resultant matrices and the computation of the degree of an approximate greatest common divisor of two inexact Bernstein basis polynomials. Computer Aided Geometric Design, 2013, 30, 410-429. | 1.2 | 14 |
| 14 | An improved non-linear method for the computation of a structured low rank approximation of the Sylvester resultant matrix. Journal of Computational and Applied Mathematics, 2013, 237, 253-268. | 2.0 | 15 |
| 15 | Two methods for the calculation of the degree of an approximate greatest common divisor of two inexact polynomials. Calcolo, 2012, 49, 241-267. | 1.1 | 16 |
| 16 | The computation of multiple roots of a polynomial. Journal of Computational and Applied Mathematics, 2012, 236, 3478-3497. | 2.0 | 9 |
| 17 | The calculation of the degree of an approximate greatest common divisor of two polynomials. Journal of Computational and Applied Mathematics, 2011, 235, 1587-1603. | 2.0 | 10 |
| 18 | A non-linear structure preserving matrix method for the low rank approximation of the Sylvester resultant matrix. Journal of Computational and Applied Mathematics, 2010, 234, 3226-3242. | 2.0 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A unified approach to resultant matrices for Bernstein basis polynomials. Computer Aided Geometric Design, 2008, 25, 529-541. | 1.2 | 6 |
| 20 | Structured total least norm and approximate GCDs of inexact polynomials. Journal of Computational and Applied Mathematics, 2008, 215, 1-13. | 2.0 | 20 |
| 21 | High Order Terms for Condition Estimation of Univariate Polynomials. SIAM Journal of Scientific Computing, 2006, 28, 1420-1436. | 2.8 | 4 |
| 22 | The numerical condition of univariate and bivariate degree elevated Bernstein polynomials. Journal of Computational and Applied Mathematics, 2006, 191, 32-49. | 2.0 | 3 |
| 23 | Structured matrix methods for CAGD: an application to computing the resultant of polynomials in the Bernstein basis. Numerical Linear Algebra With Applications, 2005, 12, 685-698. | 1.6 | 11 |
| 24 | Numerical and Algebraic Properties of Bernstein Basis Resultant Matrices. , 2005, , 107-118. | | 2 |
| 25 | Backward Errors and Condition Numbers of Regular and Singular Points on Algebraic Curves. Lecture Notes in Computer Science, 2005, , 413-433. | 1.3 | 1 |
| 26 | A Comparison of Condition Numbers for the Full Rank Least Squares Problem. Lecture Notes in Computer Science, 2005, , 296-318. | 1.3 | 0 |
| 27 | The transformation of the companion matrix resultant between the power and Bernstein polynomial bases. Applied Numerical Mathematics, 2004, 48, 113-126. | 2.1 | 11 |
| 28 | A companion matrix resultant for Bernstein polynomials. Linear Algebra and Its Applications, 2003, 362, 153-175. | 0.9 | 24 |
| 29 | Properties of the Companion Matrix Resultant for Bernstein Polynomials. , 2002, , 185-198. | | 5 |
| 30 | Condition numbers of a nearly singular simple root of a polynomial. Applied Numerical Mathematics, 2001, 38, 275-285. | 2.1 | 10 |
| 31 | A comparison of the average case numerical condition of the power and bernstein polynomial bases. International Journal of Computer Mathematics, 2001, 77, 583-602. | 1.8 | 3 |
| 32 | A resultant matrix for scaled Bernstein polynomials. Linear Algebra and Its Applications, 2000, 319, 179-191. | 0.9 | 13 |
| 33 | A Class of Bernstein Polynomials that Satisfy Descartesâ€™ Rule of Signs Exactly. , 2000, , 424-437. | | 1 |
| 34 | Polynomial basis conversion made stable by truncated singular value decomposition. Applied Mathematical Modelling, 1997, 21, 557-568. | 4.2 | 8 |
| 35 | Tikhonov regularisation in standard form for polynomial basis conversion. Applied Mathematical Modelling, 1997, 21, 651-662. | 4.2 | 10 |