## Charles W Wampler

## List of Publications by Year in descending order

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1 Forward displacement analysis of general six-in-parallel sps (Stewart) platform manipulators using 2.7 ..... 155 soma coordinates. Mechanism and Machine Theory, 1996, 31, 331-337.Numerical Decomposition of the Solution Sets of Polynomial Systems into Irreducible Components.
11 Isosingular Sets and Deflation. Foundations of Computational Mathematics, 2013, 13, 371-403.12 A power series method for computing singular solutions to nonlinear analytic systems. NumerischeMathematik, 1992, 63, 391-409.

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19 Homotopies for Intersecting Solution Components of Polynomial Systems. SIAM Journal on Numerical
Analysis, 2004, 42, 1552-1571.

20 Regenerative cascade homotopies for solving polynomial systems. Applied Mathematics and

The Complete Solution of Altâ€"Burmester Synthesis Problems for Four-Bar Linkages. Journal of
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Mechanisms and Robotics, 2016, 8,
28

22 Cell decomposition of almost smooth real algebraic surfaces. Numerical Algorithms, 2013, 63, 645-678.
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23 Isotropic Coordinates, Circularity, and Bezout Numbers: Planar Kinematics From a New Perspective.,
1996,,.

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Numerical factorization of multivariate complex polynomials. Theoretical Computer Science, 2004, 315, 651-669.Solution of Polynomial Systems Derived from Differential Equations. Computing (Vienna/New York),2006, 76, 1-10.
29 Numerical Irreducible Decomposition Using PHCpack. , 2003, , 109-129.19
30 Geometric Design of Cylindric
32 A New Mobility Formula for Spatial Mechanisms. , 2007, , . ..... 16
33 On a Rigid Body Subject to Point-Plane Constraints. Journal of Mechanical Design, Transactions of the ..... 1.7 ..... 13
ASME, 2006, 128, 151-158.
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37 An efficient start system for multi-homogeneous polynomial continuation. Numerische Mathematik,
1993, 66, 517-523.

Synthesis of three-revolute spatial chains for body guidance. Mechanism and Machine Theory, 2017, 110, 61-72.

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41 Unification and extension of intersection algorithms in numerical algebraic geometry. Applied
Mathematics and Computation, 2017, 293, 226-243.
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43 Numerical computation of the genus of an irreducible curve within an algebraic set. Journal of Pure
Comparison of probabilistic algorithms for analyzing the components of an affine algebraic variety.
Applied Mathematics and Computation, 2014, 231,619-633. 1.4
47 The Inverse Function Approach to Kinematic Control of Redundant Manipulators. , 1988, , .6
48 Object impedance control using a closed-chain task definition. , 2010, , . ..... 6
49 Applying Numerical Algebraic Geometry to Kinematics. , 2013, , 125-159. ..... 6
Numerically intersecting algebraic varieties via witness sets. Applied Mathematics and Computation,

56 The geometry of singular foci of planar linkages. Mechanism and Machine Theory, 2004, 39, 1139-1153.
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57 A numerical algebraic geometry approach to regional stability analysis of polynomial systems. , 2013, , .
2

58 Singularity Traces of Single Degree-of-Freedom Planar Linkages That Include Prismatic and Revolute Joints. Journal of Mechanisms and Robotics, 2016, 8, .
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Exceptional Stewart--Gough Platforms, Segre Embeddings, and the Special Euclidean Group. SIAM
Journal on Applied Algebra and Geometry, 2018, 2, 179-205.
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60 A General Method for Constructing Planar Cognate Mechanisms. Journal of Mechanisms and
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Robotics, 2021, 13, .

Using the Singularity Trace to Understand Linkage Motion Characteristics. , 2013, , .

Homotopies for Connected Components of Algebraic Sets with Application to Computing Critical Sets.
Lecture Notes in Computer Science, 2017, , 107-120.
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63 Type Synthesis of Mechanisms for Variable Valve Actuation. , 1993, , .
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64 Locating N Points of a Rigid Body on N Given Planes. , 2004, , 513.
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