## Victor Petuya

## List of Publications by Year

 in descending orderSource: https:/|exaly.com/author-pdf/4368618/publications.pdf
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1 Synthesis and Design of a Novel 3T1R Fully-Parallel Manipulator. Journal of Mechanical Design, 2.9 ..... 58
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8 Position analysis of planar mechanisms with R-pairs using a geometricalâ $€^{\prime \prime}$ iterative method. Mechanism and Machine Theory, 2004, 39, 133-152.

19 Characterizing the configuration space of the 3-SPS-S spatial orientation parallel manipulator.
Meccanica, 2014, 49, 1101-1114.

Frequency domain modelling of a coupled system of floating structure and mooring Lines: An application to a wave energy converter. Ocean Engineering, 2021, 220, 108498.

A New General-Purpose Method to Solve the Forward Position Problem in Parallel Manipulators. Advanced Robotics, 2008, 22, 395-409.

A methodology to achieve the set of operation modes of reconfigurable parallel manipulators.
Meccanica, 2019, 54, 2507-2520.

Structural Synthesis of 3-DoF Spatial Fully Parallel Manipulators. International Journal of Advanced
Robotic Systems, 2014, 11, 101.

Design and analysis of an active 2-DOF lockable joint. Mechanics Based Design of Structures and
Machines, 2022, 50, 2736-2759.

Improving Skills in Mechanism and Machine Science Using GIM Software. Applied Sciences
(Switzerland), 2021, 11, 7850.

Planning Nonsingular Transitions Between Solutions of the Direct Kinematic Problem From the Joint
Space. Journal of Mechanisms and Robotics, 2012, 4, .

27 Researching into Non-Singular Transitions in the Joint Space., 2010, , 45-52.

A method for the solution of the forward position problems of planar mechanisms with prismatic and
28 revolute joints. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of
Mechanical Engineering Science, 2001, 216, 395-407.

29 Computing the Configuration Space for Tracing Paths Between Assembly Modes. Journal of
Mechanisms and Robotics, 2010, 2, .

30 Design procedure for cuspidal parallel manipulators. Mechanism and Machine Theory, 2011, 46, 97-111.
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37 Mooring System Design Approach: A Case Study for MARMOK-A Floating OWC Wave Energy Converter. ,
2018, ,.
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A robot for non-destructive testing weld inspection of offshore mooring chains. International Journal of Advanced Robotic Systems, 2018, 15, 172988141877053.
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Educational and Research Kinematic Capabilities of GIM Software. Mechanisms and Machine Science,
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Educational and Research Kinematic Capabilities of GIM Software. Mechanisms and Machine Science,
$2015,11-19$.

40 Protein Kinematic Motion Simulation Including Potential Energy Feedback., 2010, , 83-90.
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| 41 | Pa\<sup\> 2\&\|t;/sup\> kinematic bond in translational parallel manipulators. Mechanical Sciences, 2018, 9, 25-39. | 1.0 | 2 |
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| 42 | Computing the Configuration Space for Motion Planning between Assembly Modes. , 2009, , 35-42. |  | 2 |
| 43 | Design of an active reconfigurable 2R joint. Mechanisms and Machine Science, 2019, , 1423-1429. | 0.5 | 2 |
| 44 | Biokinematic protein simulation by an adaptive dihedral angle approach. Mechanism and Machine Theory, 2013, 69, 105-114. | 4.5 | 1 |
| 45 | Control distribution of partially decoupled multi-level manipulators with five DOFs. Robotica, 2017, 35, 337-353. | 1.9 | 1 |

46 Analysis of the Direct Kinematic Problem in 3-DOF Parallel Manipulators., 2010, , 445-456.
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47 Structural Dynamic Analysis of Low-Mobility Parallel Manipulators. , 2010, , 387-394.
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ESTADO DE LA TÃ\%CNICA DE LOS MANIPULADORES PARALELOS. APLICACIONES PRÃ€TICAS Y CRITERIOS CINEMÃđICOS DE DISEÃ‘O. Dyna (Spain), 2015, 90, 144-152.
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49 A Kinematic Approach to Calculate Protein Motion Paths. , 2009, , 69-76.
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50 Design and Testing of Two Haptic Devices Based on Reconfigurable 2R Joints. Applied Sciences
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51 Motion pattern singularity in lower mobility parallel manipulators., 2006, , 489-496.
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52 Three Error Estimators for Non-Linear Structural Problems. , 0, , .
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Computation of the protein molecular mechanism using adaptive dihedral angle increments. Frontiers
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Designing a Translational Parallel Manipulator Based on the 3SS Kinematic Joint. Journal of Mechanisms and Robotics, 2019, 11, .
57 A Robot for Welding Inspection in Offshore Mooring Chains. Mechanisms and Machine Science, 2019,
$406-412$.

| 59 | Considering the Ability for Nonsingular Transitions of Assembly Mode for Dimensional Synthesis. , 2009, , . |  | 0 |
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| 60 | Kinematics Study of Protein Chains and Protein Motion Simulation. Mechanisms and Machine Science, 2012, , 85-99. | 0.5 | 0 |
| 61 | Protein Folding Pathways Implementing Dihedral Angle Variable Speed. , 2012, , 277-284. |  | 0 |
| 62 | Restoration and Digital Display of Max Kohl Mechanisms in the Engineering School of USAL. Mechanisms and Machine Science, 2013, , 731-740. | 0.5 | 0 |
| 63 | Dimensional Synthesis of a Spatial Orientation 3-DoF Parallel Manipulator by Characterizing the Configuration Space. Mechanisms and Machine Science, 2014, , 85-92. | 0.5 | 0 |
| 64 | Using the ThinkMOTION Project Resources for the Teaching of Mechanism and Machine Theory. Mechanisms and Machine Science, 2014, , 229-237. | 0.5 | 0 |
| 65 | Side Chain Kinematics Simulation on Protein Conformational Changes. Mechanisms and Machine Science, 2015, , 121-132. | 0.5 | 0 |
| 66 | General Purpose Software to Solve the Inverse Dynamics and Compute the Internal Efforts of Non-redundant Planar Mechanisms. Mechanisms and Machine Science, 2015, , 365-375. | 0.5 | 0 |
| 67 | Axis Cross-Coupling Reduction on a High Bandwidth XY Flexure Stage. Mechanisms and Machine Science, 2015, , 61-71. | 0.5 | 0 |

