

# Súper Resolución

Comparativa de técnicas

Madrigal-Custodio, Jesús A., Tevera-Ruiz Alejandro, Torres-Martínez Luis Á.

*Departamento: Robótica y Manufactura Avanzada*

*Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional*

## Resumen

En el presente documento se explican los fundamentos, metodología y proceso de implementación para el desarrollo de algoritmos de súper resolución bajo diversos enfoques con el objetivo...

## Palabras Clave

Súper Resolución, Redes Convolucionales, Inteligencia Artificial

## I. INTRODUCCIÓN

## II. ANTECEDENTES

## III. IMPLEMENTACIÓN

## IV. RESULTADOS

## V. DISCUSIÓN

## VI. CONCLUSIONES

## REFERENCIAS

- [1] E. Olguín-Díaz, *3D Motion of Rigid Bodies: A Foundation for Robot Dynamics Analysis*. Springer, 2019.
- [2] E. Olguín-Díaz, *Rigid Multibody Systems Dynamics*. CINVESTAV, 2021.
- [3] MathWorks, "Convert symbolic expression to matlab function block," 2009. [Online]. Available: [https://la.mathworks.com/help/symbolic/matlabfunctionblock.html?s\\_tid=doc\\_ta](https://la.mathworks.com/help/symbolic/matlabfunctionblock.html?s_tid=doc_ta)
- [4] L. Susskind and G. Hrabovsky, *The theoretical minimum: what you need to know to start doing physics*. Basic Books, 2013.
- [5] MathWorks, "ode15s." [Online]. Available: <https://www.mathworks.com/help/matlab/ref/ode15s.html>
- [6] MathWorks, "Solve stiff odes." [Online]. Available: <https://www.mathworks.com/help/matlab/math/solve-stiff-odes.html>
- [7] I. Sarakoglou, A. Brygo, D. Mazzanti, N. G. Hernandez, D. G. Caldwell, and N. G. Tsagarakis, "Hexotrac: A highly under-actuated hand exoskeleton for finger tracking and force feedback," *2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2016. [Online]. Available: <http://ieeexplore.ieee.org/document/7759176/>
- [8] MathWorks, "Matlab app designer." [Online]. Available: <https://la.mathworks.com/products/matlab/app-designer.html>
- [9] MathWorks, "Simscape." [Online]. Available: <https://la.mathworks.com/products/simscape.html>
- [10] MathWorks. [Online]. Available: <https://la.mathworks.com/products/simscape-multibody.html>
- [11] Gazebo, "Urdf." [Online]. Available: [http://gazebo.org/tutorials/?tut=ros\\_urdf](http://gazebo.org/tutorials/?tut=ros_urdf)
- [12] S. Brawner, "sw\_urdf\_exporter," 2020. [Online]. Available: [http://wiki.ros.org/sw\\_urdf\\_exporter](http://wiki.ros.org/sw_urdf_exporter)
- [13] MathWorks, "Urdf import." [Online]. Available: <https://la.mathworks.com/help/physmod/sm/ug/urdf-import.html>

## VII. ANEXOS