

ISOGLIDE - PARALLEL ROBOT WITH DECOUPLED MOTIONS

AIMS

> modeling, simulation and control of ISOGLIDE parallel robot with Matlab/Simulink and dSpace

> optimal control of ISOGLIDE parallel robot

> numerical simulations of ISOGLIDE parallel robot with decoupled motions

Description

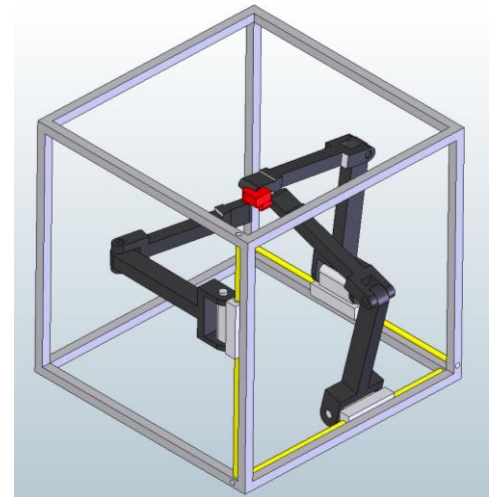
> fully-isotropic with decoupled motion

> three degrees of freedom with three translations

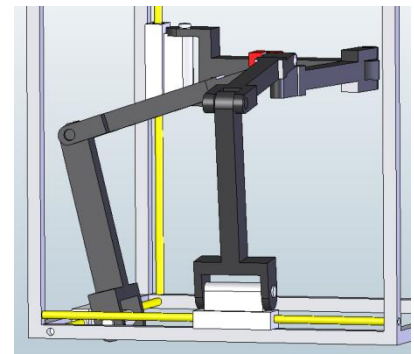
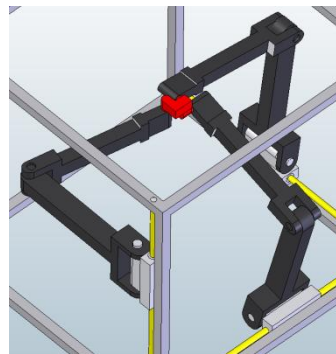
References

>G. GOGU. "Structural synthesis of fully-isotropic translational parallel robots via theory of linear transformations", European J. of Mechanics A/Solids, N°23(6), 2004, pp. 1021-1039.

><http://www.dspace.de>

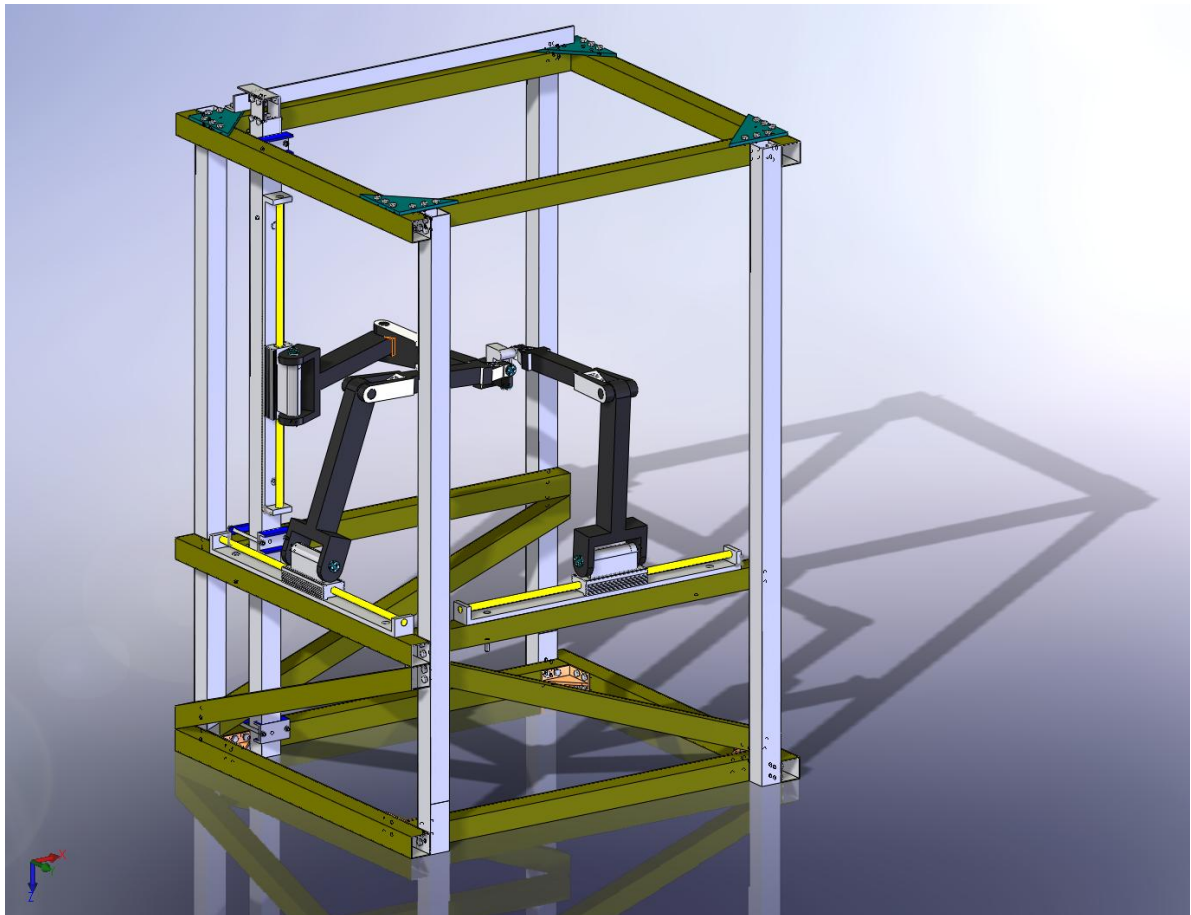


CAD model of ISOGLIDE parallel robot



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ISOGLIDE parallel robot realized at Dept. of Mechatronics, TU Cluj-Napoca, Romania