

## Prof. REŞİT SOYLU

### Personal Information

Email: soylu@metu.edu.tr

### Foreign Languages

English, C1 Advanced

### Advising Theses

- SOYLU R., Dynamic analysis, design and practical applications of an overconstrained mechanical force generator, Post Graduate, U.ERDİNÇ(Student), 2017
- SOYLU R., Theoretical and experimental dynamic performance optimization of planar mechanisms using adjustment systems and mechanical generators, Doctorate, H.MENCEK(Student), 2015
- SOYLU R., Kinematic analysis of a slider crank mechanism via a pre-calibrated vision system developed by using two commercial cameras, Post Graduate, M.HİLMİ(Student), 2014
- SOYLU R., Biomechanical modelling of a horse rider, Post Graduate, S.GÖZDE(Student), 2014
- SOYLU R., Locomotion and control of a modular snake like robot, Post Graduate, E.KURTULMUŞ(Student), 2010
- SOYLU R., Development of a two-fingered and a four-fingered robotic gripper, Post Graduate, B.DOĞAN(Student), 2010
- SOYLU R., Development of a 3-camera vision system and the saddle motion analysis of horses via this system, Post Graduate, G.DOĞAN(Student), 2009
- SOYLU R., An algorithm to resolve the optimal locomotion problem of modular robots, Post Graduate, H.MENCEK(Student), 2007
- SOYLU R., Dynamic stability analysis of modular, self-reconfigurable robotic systems, Post Graduate, T.ALİ(Student), 2005
- SOYLU R., Dynamic performances of kinematically and dynamically adjustable planar mechanisms, Post Graduate, E.İYİAY(Student), 2003
- SOYLU R., Trajectory planning algorithms for cooperating robots, Post Graduate, E.SELVİ(Student), 2003
- SOYLU R., Inertial parameter desing of spatial mechanisms, Post Graduate, F.CEMAL(Student), 2003
- SOYLU R., Inertial parameter design of planar mechanisms, Post Graduate, M.TURSUN(Student), 2000
- DARENDELİLER H., SOYLU R., Optimal shope design of two dimensional rigid bodies with constraints on their kinematic and inertial parameters, Post Graduate, S.GÜREL(Student), 2000
- SOYLU R., Suboptimal control of dynamic systems using polynomial parameterization symbolic manipulation, Post Graduate, E.YILMAZ(Student), 1997
- SOYLU R., A New methodology for the kinamatic synthesis of planar mechanisms, Post Graduate, G.BIÇAKÇI(Student), 1996
- SOYLU R., Motion modelling and time optimal trajectory planning for an industrial robot, Post Graduate, H.ÜTÜKLERLİ(Student), 1995
- SOYLU R., Visual simulation of an industrial robot, Post Graduate, S.DİNÇER(Student), 1995
- SOYLU R., Efficientmethods for the kinematic analysis of spatial mechanisms and robots, Post Graduate, M.BURAK(Student), 1994
- SOYLU R., Formulation of dynamics and lineerization of hybrid robots, Post Graduate, M.ÇETİN(Student), 1994
- SOYLU R., Computer aided generation and linearization of the equations of motion of serial robot manipulators, Post Graduate, A.SARRAFİ(Student), 1993
- SOYLU R., Kinematic nad dynamic performance of spherical wrist and planar wrist manipulators, Post Graduate,

E.BÜYÜKLİMANLI(Student), 1992

SOYLU R., Crank-rotatibility synthesis and automatic generation of the input-output equations of mechanisms, Post Graduate, A.KUNTER(Student), 1991

### **Refereed Congress / Symposium Publications in Proceedings**

- **Systematic and Rapid Construction of Test Beds for Planar Mechanism**  
Mencek H., SOYLU R.  
5th European Conference on Mechanism Science (EUCOMES), Guimaraes, Portugal, 16 - 20 September 2014,  
vol.24, pp.277-285
- **A Vision Based Approach for Assessing Equine Locomotion and Whole-Body Vibration Induced on a Horse Rider**  
(Dogan) G. T. , SOYLU R.  
World Congress on Engineering (WCE 2013), London, Canada, 3 - 05 July 2013, pp.2028-2036