

## Prof. REŞİT SOYLU

### Personal Information

**Email:** soylu@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/soylu>

### International Researcher IDs

ScholarID: Bed5EtkAAAAJ

ORCID: 0000-0002-6316-7276

Publons / Web Of Science ResearcherID: ABA-3211-2020

ScopusID: 6602358790

Yoksis Researcher ID: 9041

### Foreign Languages

English, C1 Advanced

### Supervised Theses

- SOYLU R., Investigation of haptic manipulators with linear equations of motion, Postgraduate, A.Kızılbey(Student), 2019
- SOYLU R., Dynamic analysis, design and practical applications of an overconstrained mechanical force generator, Postgraduate, 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., Biomechanical modelling of a horse rider, Postgraduate, S.GÖZDE(Student), 2014
- SOYLU R., Kinematic analysis of a slider crank mechanism via a pre-calibrated vision system developed by using two commercial cameras, Postgraduate, M.HİLMİ(Student), 2014
- SOYLU R., Kinematic analysis of a slider crank mechanism via a pre-calibrated vision system developed by using two commercial cameras, Postgraduate, M.Hilmi(Student), 2014
- SOYLU R., Locomotion and control of a modular snake like robot, Postgraduate, E.KURTULMUŞ(Student), 2010
- SOYLU R., Development of a two-fingered and a four-fingered robotic gripper, Postgraduate, B.DOĞAN(Student), 2010
- SOYLU R., Development of a 3-camera vision system and the saddle motion analysis of horses via this system, Postgraduate, G.DOĞAN(Student), 2009
- SOYLU R., An algorithm to resolve the optimal locomotion problem of modular robots, Postgraduate, H.MENCEK(Student), 2007
- SOYLU R., Dynamic stability analysis of modular, self-reconfigurable robotic systems, Postgraduate, T.ALİ(Student), 2005
- SOYLU R., Dynamic performances of kinematically and dynamically adjustable planar mechanisms, Postgraduate, E.İYİAY(Student), 2003
- SOYLU R., Trajectory planning algorithms for cooperating robots, Postgraduate, E.SELVİ(Student), 2003
- SOYLU R., Inertial parameter desing of spatial mechanisms, Postgraduate, F.CEMAL(Student), 2003
- SOYLU R., Inertial parameter design of spatial mechanisms, Postgraduate, F.Cemal(Student), 2003
- DARENDELİLER H., SOYLU R., Optimal shope design of two dimensional rigid bodies with constraints on their kinematic and inertial parameters, Postgraduate, S.GÜREL(Student), 2000
- SOYLU R., Inertial parameter design of planar mechanisms, Postgraduate, M.TURSUN(Student), 2000
- SOYLU R., Suboptimal control of dynamic systems using polynomial parameterization and symbolic manipulation., Postgraduate, E.Yılmaz(Student), 1997

SOYLU R., Suboptimal control of dynamic systems using polynomial parameterization symbolic manipulation, Postgraduate, E.YILMAZ(Student), 1997

SOYLU R., A new methodology for the kinematic synthesis of planar mechanisms, Postgraduate, G.Bıçakçı(Student), 1996

SOYLU R., A New methodology for the kinematic synthesis of planar mechanisms, Postgraduate, G.BIÇAKÇI(Student), 1996

SOYLU R., Motion modelling and time-optimal trajectory planning for an industrial robot, Postgraduate, H.ÜTÜKLERLİ(Student), 1995

SOYLU R., Visual simulation of an industrial robot, Postgraduate, S.DİNÇER(Student), 1995

SOYLU R., Formulation of dynamics and linearization of hybrid robots, Postgraduate, M.ÇETİN(Student), 1994

SOYLU R., Efficient methods for the kinematic analysis of spatial mechanisms and robots, Postgraduate, M.BURAK(Student), 1994

SOYLU R., Formulation of dynamics and linearization of hybrid robots, Postgraduate, M.Çetin(Student), 1994

SOYLU R., Computer aided generation and linearization of the equations of motion of serial robot manipulators, Postgraduate, A.SARRAFİ(Student), 1993

SOYLU R., Kinematic and dynamic performance of spherical wrist and planar wrist manipulators, Postgraduate, E.BÜYÜKLİMANLI(Student), 1992

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

## Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental Setup for a Novel Mechanical Force Generator**  
Ekinci M. B., YAMAN U., SOYLU R.  
2020 IEEE 16th International Workshop on Advanced Motion Control (AMC), Kristiansand, Norway, 14 - 16 September 2020
- II. **Experimental Setup for a Novel Mechanical Force Generator**  
Ekinci M. B., Yaman U., Soylu R.  
IEEE 16th International Workshop on Advanced Motion Control (AMC), ELECTR NETWORK, 14 - 16 September 2020, pp.147-152
- III. **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
- IV. **Systematic and Rapid Construction of Test Beds for Planar Mechanisms**  
SOYLU R.  
5th European Conference on Mechanism Science ( EUCOMES 2014), 16 September 2014
- V. **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

## Metrics

Publication: 5