

Res. Asst. HALUK ÖZAKYOL

Personal Information

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Biography

Haluk Ozakyol received his bachelor degrees on Mechatronics Engineering from Bochum University of Applied Sciences, Germany and Kocaeli University, Turkey in 2010. He got master degree in Control and Automation Engineering from Istanbul Technical University (ITU), Turkey in 2012. His master thesis is about Kinematic of Quadruped Walking. He started his Ph.D study at Mechatronics Engineering at Kocaeli University in 2012.

His PH.D. thesis is focused on Kinematic and Dynamic Analysis and Design of High-DOF Hybrid Multibody Robotic Systems. Advanced Robotics Analysis Toolbox (ARAT) was developed in this thesis. Serial, cooperative, parallel and hybrid robots can be analyzed kinematic and dynamically with ARAT. He is currently a full-time research assistant at the Department of Mechatronics Engineering at Kocaeli University, Turkey.

Education Information

2012 - Continues	Doctorate, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, Turkey
2010 - 2012	Post Graduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Control and Automation Engineering, Turkey
2005 - 2010	Under Graduate, Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, Turkey

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

2019	BIYOBETA Biyobenzetim ve Biyotasarım, Biyolojiden Esinlenen Mühendislik, Vocational Course, Ege University, MATAL (Central Research Test and Analysis Laboratory Application and Research Center)
2019	Dynamics & Real Time Simulation (DARTS) Laboratory, Advanced Topics Course, Vocational Course, Jet Propulsion Laboratory (JPL) / California Institute of Technology (Caltech)
2011	ITU SAVTEK (Savunma Teknolojileri) Havacılık Yaz Okulu, Innovative Product Design, Istanbul Technical University

Dissertations

Research Areas

Simulation, Modelling and Identification, Robotics and Mechatronics Systems, Field and Service Robots, Human and Robot Interaction, Humanoid Robots, Route and Motion Planning, Motion Analysis, Clinical Robots, Modeling and Simulation of Dynamic Systems

Academic Titles / Tasks

2012 - Continues Research Assistant, Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Advanced robotics analysis toolbox for kinematic and dynamic design and analysis of high-DOF redundant serial manipulators**
Özakoyol H., Karaman C., Bingül Z.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, 2019 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **Kinematic and dynamic analysis and design toolbox of high-DOF hybrid multibody systems**
ÖZAKYOL H., KARAMAN C., BİNGÜL Z.
44th Annual Conference of the IEEE Industrial Electronics Society, IECON 2018, Washington, United States Of America, 20 - 23 October 2018, pp.2558-2563
- **New design and development of reconfigurable-hybrid hexapod robot**
Ozyalcin K., Akay I. H. , Ozturk Y., Mengus B., ÖZAKYOL H., BİNGÜL Z.
44th Annual Conference of the IEEE Industrial Electronics Society, IECON 2018, Washington, United States Of America, 20 - 23 October 2018, pp.2583-2588
- **Robotics toolbox for kinematic analysis and design of hybrid multibody systems**
ÖZAKYOL H., KARAMAN C., BİNGÜL Z.
18th International Conference on Advanced Robotics, ICAR 2017, Hong Kong, China, 10 - 12 July 2017, pp.401-406

Memberships / Tasks in Scientific Organizations

2018 - Continues IEEE Industrial Electronics Society, Member
2017 - Continues IEEE - Institute of Electrical and Electronics Engineers, Member
2017 - Continues IEEE Robotics and Automation Society, Member

Citations

- Total Citations (WOS): 4
- h-index (WOS): 1

Scholarships

2012 - 2017

2211-E Domestic Doctoral Fellowship Program 2012/3, TUBITAK

2010 - 2012

2228-A Graduate (Master / Doctorate) Scholarship Program for Senior Students 2010/1,
TUBITAK