

## Teaching Assistant Sabri UZUNER



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<b>Research Interests</b>	<p><i>My general interest are using biomedical imaging processing programs such as MIMICS, 3- Matic and AMIRA is designed 3D model of knee joint. After designed 3D model of knee joint, fixed the model by using reverse engineering programs such as GEOMAGIC, SolidWORKS and Z-Brush for impeccable dynamic analyses. And after that, The 3D model is analyzed as dynamic character on load with ABAQUS, ANSYS etc. My current specific research are to obtain kinematics data of knee joint during a prolonged standing using Dual Fluoroscopy and Magnetic Resonance Images and to understand the mechanics of knee joint using the kinematics data of the knee joint. This understanding may be used for the prevention of knee injury and OA.</i></p> <p><i>In addition, I have experience about motion control, robotic arm. My thesis of Master is "Approach To The Solution Of Inverse Kinematics Of Industrial Robots With Offset Wrist".</i></p>
<b>Academic Qualifications</b>	<p><i>University of Kocaeli, Kocaeli, Turkey</i> <i>PhD, 2012 - Present</i> <i>Engineering of Biomechanics</i></p> <p><i>University of Marmara, Istanbul, Turkey</i> <i>2009-2011 – Postgraduate</i> <i>Engineering of Mechatronics</i></p> <p><i>University of Marmara, Istanbul, Turkey</i> <i>2003-2007 – Undergraduate</i> <i>Engineering of Mechatronics</i></p>
<b>Administrative Duties</b>	<p><i>Chief of Department- Selcuk University, Eregli Kemal Akman Vocational School, Department of Electronics and Automation 2009-2012</i></p> <p><i>ERASMUS Coordinator- Selcuk University, Eregli Kemal Akman Vocational School, 2009-2012</i></p> <p><i>Chief of Department- Duzce University, Cumayeri Vocational School, Department of Electronics and Automation 2012- 2015</i></p> <p><i>Assistant Manager- Duzce University, Cumayeri Vocational School, 2014- 2015</i></p> <p><i>ERASMUS Coordinator- Duzce University, Cumayeri Vocational School, 2015- continued</i></p>
<b>Skills</b>	<p><i>Mechatronics, Automatization, Programmable Logic Controller, C++, Fuzzy</i></p>

	<i>Logic, Robotic, Finite Element Method, Knee Joint, Design Optimization, 3D Modelling of Human Structure, Soft Tissue</i>
<b>Language</b>	<i>Turkish(Mother Language) and English (Advanced Level)</i>
<b>Work Experience</b>	<p>2012-Present Lecturer Düzce University, Cumayeri Vocational School, Düzce, Turkey</p> <p>2007- 2012 Lecturer Selcuk University, Ereğli Vocational School, Konya, Turkey</p>
<b>Lessons</b>	<p>Name of Lesson Hydraulic-Pneumatic System Analysis And Design Industrial Robots Programmable Logic Control Computer-Aided Electronic Circuit Design Digital Electronics Process Control Systems DC Circuit Analyses Medical Imaging Systems Biomedical Image Processing</p>
<b>Projects</b>	<ol style="list-style-type: none"> <li>1. <i>A New Approach To The Solution Of Inverse Kinematics Of Industrial Robots With Offset Wrist 2009-2011 (Researcher)</i></li> <li>2. <i>Three Dimensional Modeling and Analysis of Biomechanics of Human Knee Joint for with a Finite Element Method 2017-2018 (Researcher)</i></li> </ol>
<b>Honors</b>	<ol style="list-style-type: none"> <li>1. <i>ITEC (Indian Technical &amp; Economic Cooperation Programme) Diploma in Communication English, IT &amp; Networking Skills 2013 - 2014 (3 mounts), New Delhi, India</i></li> <li>2. <i>The Scientific and Technological Research Council of Turkey Science Fellowships and Grant Programmes 2017-2018 (1 year). Visited University: Department of Mechanical and Manufacturing Engineering, University of Calgary, Calgary, Canada</i></li> </ol>
<b>Academic Publication</b>	<p><b>INTERNATIONAL ARTICLES</b></p> <ol style="list-style-type: none"> <li>1. <i>Uzuner S, Akkus N, TOZ M., “Design, Implementation and Inverse Kinematic Solution For A 5-Dof Serial Robot Manipulator by Using Combination Of Analytical Method And Simple Search Technique”, Journal of Engineering Science and Technology (JESTEC), 2018 (Manuscript be submitted for processing)</i></li> <li>2. <i>Uzuner S., Rodriguez M. L., Li L., Kucuk S., “Dual Fluoroscopic Evaluation of Human Tibiofemoral Joint Kinematics during a Prolonged Standing: a Pilot Study”, Engineering Science and Technology, an International Journal (JESTECH), 2018 (Manuscript be submitted for processing)</i></li> </ol> <p><b>NATIONAL ARTICLES</b></p> <ol style="list-style-type: none"> <li>1. <i>Uzuner, S.; Akkus, N.; and Toz M. (2017). Trajectory planning of a 5-DOF serial robot manipulator in joint-space. Journal of Polytechnic, 20(1), 151-157.</i></li> </ol> <p><b>INTERNATIONAL CONFERENCE PROCEEDINGS</b></p> <ol style="list-style-type: none"> <li>1. <i>Uzuner, S. Zurnaci, E. and Nas E., 2018. Developing Unmanned Aerial Vehicle Landing Gear Using Topology Optimization, Engineers of Future International Student Symposium (EFIS), 7 - 9 June 2018, Zonguldak, Turkey</i></li> <li>2. <i>Uzuner, S. and Nas E., 2018. Modular Irrigation System Development with DTMF Module, Engineers of Future International Student Symposium (EFIS), 7 - 9 June 2018, Zonguldak, Turkey</i></li> <li>3. <i>Uzuner, S., Zurnaci, E., Rodriguez, M. and Kucuk, S., 2018. Investigation of the Effect of Mesh Density and Element Type on Behavior of Biphasic</i></li> </ol>

	<p><i>Soft Tissues in Finite Element Analysis, International Conference on Advanced Technologies Computer Engineering and Science, (ICATCES'2018), 11-12-13 May 2018 Safranbolu, Turkey</i></p> <p>4. <i>Rodriguez, M., L., Uzuner S., Kuntze G., Li L., Ronsky J. L., (2018). A Dual Fluoroscopy and Finite Element Study of Viscoelastic Response of Human Knee Joint. 8th World Congress of Biomechanics (Ireland)</i></p> <p>5. <i>Uzuner S., Rodriguez M. L., Li L., Kucuk S., (2018). An in-vivo study of human tibiofemoral joint kinematics by using dual fluoroscopy system. International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES)</i></p> <p><b>NATIONAL CONFERENCE PROCEEDINGS</b></p> <p>1. <i>Uzuner S., Akkus N. and Kaplanoglu E., (2010). Design and control of three axis fiber winding machine using LabVIEW. II. National Konya Ereğli Kemal Akman Vocational School Conference (Tukey)</i></p>
<b>Links</b>	<p><a href="#"><u>Sabri UZUNER Google Scholar</u></a></p> <p><a href="#"><u>Sabri UZUNER Researchgate</u></a></p> <p><a href="#"><u>Sabri UZUNER Personal Page</u></a></p>
<b>Activity</b>	<p><i>Llp Erasmus Teaching Staff Exchange Program, Szeged University- Exchange Staff 2013 - 20014 (1 weeks)</i></p> <p><i>Llp Erasmus Teaching Staff Exchange Program, Ventspils University- Exchange Staff 2015 - 20016 (1 weeks)</i></p>
<b>Professional Memberships</b>	<p><i>TEMA-The Turkish Foundation For Combating Soil Erosion, for Reforestation and Protection of Natural Habitats, 2004- contained</i></p>
<b>Hobbies &amp; Interests</b>	<p><i>Travel around the world, Football, Swimming, Researching about Mechatronic and Biomedical, Internet</i></p>