

Lect. PhD REZA VATANKHAH BARENJI

Personal Information

Office Phone: [+90 312 297 8950](tel:+903122978950) Extension: 117

Email: reza.vatankhah@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/reza.vatankhah>

Address: No319- Department of Industrial Engineering-Hacettepe Univeristy

Education Information

Doctorate, Dogu Akdeniz Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Cyprus (Kktc) 2007 - 2014

Post Graduate, Tahrán Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Iran 2002 - 2005

Under Graduate, Tahrán Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Iran 1998 - 2002

Foreign Languages

Azerbaijani, C1 Advanced

Arabic, B2 Upper Intermediate

Persian, C1 Advanced

English, C1 Advanced

Dissertations

Doctorate, A Novel Competency-Based Ontology for Enterprise Knowledge Management , Dogu Akdeniz Üniversitesi, 2013

Post Graduate, Simulation and analysis of forward extrusion process using FE method and experimental methods (In English), Khaje Nasir-Eddin Tosi (K.N.T) University Of Technology, Manufacturing Systems, 2005

Research Areas

Mechanical Engineering, Construction and Manufacturing, Computer Aided Design and Manufacturing, Engineering and Technology

Academic Titles / Tasks

Lecturer, Hacettepe Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2014 - Continues

Instructor, Tebriz Azad Üniversitesi, 2005 - 2007

Advising Theses

VATANKHAH BARENJI R., On a novel internet-based interface for plugging process of embedded devices with multi-agent system, Doctorate, A.Vatankhah(Student), Continues

VATANKHAH BARENJI R., Experimental Investigations on the Mechanical Properties and Microstructure of A7020

Surface Formed by FSP, Doctorate, A.Rahimzadeh(Student), Continues

VATANKHAH BARENJI R., GRİ KURT OPTİMİZASYONU ALGOTİMASINA DAYALI BİR RÜZGAR/FOTOVOLTAİK/YAKIT HÜCRELİ HİBRİT SİSTEMİN OPTİMAL BÜYÜKLÜKTEKİ TASARIMI, Post Graduate, I.ASGHARI(Student), 2018

VATANKHAH BARENJI R., Re-engineering of pump Components Utilizing indirect rapid tooling method, Post Graduate, B.Zamani(Student), 2014

VATANKHAH BARENJI R., An RFID-Based Distributed Control System for Flexible Manufacturing System, Post Graduate, A.Vatankhah(Student), 2013

VATANKHAH BARENJI R., An Automated Guided Vehicle (AGV) in Sprinkler Irrigation, Post Graduate, S.Jafari(Student), 2012

VATANKHAH BARENJI R., Design of a Capability-Based Information and Knowledge Model for a Manufacturing System: Case Study EMU CIM Lab, Post Graduate, A.Akbar(Student), 2012

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

- I. **Process sequencing for a pick-and-place robot in a real-life flexible robotic cell**
Nejad M. G. , Shavarani S. M. , Guden H., VATANKHAH BARENJI R.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.103, pp.3613-3627, 2019
(Journal Indexed in SCI)
- II. **Effect of tool pin profile on the microstructure and mechanical properties of friction stir processed Al6061/Al203-TiB2 surface hybrid composite layer**
Khojastehnezhad V. M. , Pourasl H. H. , VATANKHAH BARENJI R.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.233, pp.900-912, 2019 (Journal Indexed in SCI)
- III. **Underwater dissimilar friction stir welding of aluminum alloys: Elucidating the grain size and hardness of the joints**
Bijanrostami K., VATANKHAH BARENJI R.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.233, pp.763-775, 2019 (Journal Indexed in SCI)
- IV. **The origin of the maximum hardness of the friction stir welded single-phase Cu-Zn plates: RSM, EBSD, and TEM investigation**
Heidarzadeh A., Motaleb-nejad P., VATANKHAH BARENJI R., Khalili V., GÜLERYÜZ G.
MATERIALS CHEMISTRY AND PHYSICS, vol.223, pp.9-15, 2019 (Journal Indexed in SCI)
- V. **Optimizing the friction stir welding of the highest strength and elongation alpha/beta brass plates to obtain the**
Heidarzadeh A., VATANKHAH BARENJI R., Khalili V., GÜLERYÜZ G.
VACUUM, vol.159, pp.152-160, 2019 (Journal Indexed in SCI)
- VI. **Optimally sized design of a wind/photovoltaic/fuel cell off-grid hybrid energy system by modified-gray wolf optimization algorithm**
VATANKHAH BARENJI R., Nejad M. G. , Asghari I.
ENERGY & ENVIRONMENT, vol.29, pp.1053-1070, 2018 (Journal Indexed in SSCI)
- VII. **Trade-off between process scheduling and production cost in cyclic flexible robotic cells**
Nejad M. G. , Shavarani S. M. , Vizvari B., VATANKHAH BARENJI R.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.96, pp.1081-1091, 2018 (Journal Indexed in SCI)
- VIII. **An optimization model for cyclic scheduling problem in flexible robotic cells**
Nejad M. G. , Kovacs G., Vizvari B., VATANKHAH BARENJI R.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.95, pp.3863-3873, 2018 (Journal Indexed in SCI)
- IX. **A mathematical model and simulated annealing algorithm for solving the cyclic scheduling problem of a flexible robotic cell**

Nejad M. G., Gueden H., Vizvari B., VATANKHAH BARENJI R.

ADVANCES IN MECHANICAL ENGINEERING, vol.10, 2018 (Journal Indexed in SCI)

- X. **Effect of reinforcement amount, mold temperature, superheat, and mold thickness on fluidity of in-situ Al-Mg₂Si composites**
VATANKHAH BARENJI R.
CHINA FOUNDRY, vol.15, pp.66-74, 2018 (Journal Indexed in SCI)
- XI. **Quantifying the advantage of a kitting system using Petri nets: a case study in Turkey, modeling, analysis, and insights**
VATANKHAH BARENJI R., YÜKSEL ÖZKAYA B., Barenji A. V.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.93, pp.3677-3691, 2017 (Journal Indexed in SCI)
- XII. **Improving multi-agent manufacturing control system by indirect communication based on ant agents**
Barenji A. V., VATANKHAH BARENJI R.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.231, pp.447-458, 2017 (Journal Indexed in SCI)
- XIII. **A dynamic multi-agent-based scheduling approach for SMEs**
Barenji A. V., VATANKHAH BARENJI R., Roudi D., Hashemipour M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.89, pp.3123-3137, 2017 (Journal Indexed in SCI)
- XIV. **TS-04631394 Elucidating the effect of electrical discharge machining parameters on the surface roughness of AISI D6 tool steel using response surface method**
Pourasl H. H., VATANKHAH BARENJI R., Khojastehnezhad V. M.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.24, pp.83-90, 2017 (Journal Indexed in SCI)
- XV. **Effect of Traverse and Rotational Speeds on the Tensile Behavior of the Underwater Dissimilar Friction Stir Welded Aluminum Alloys**
Bijanrostami K., VATANKHAH BARENJI R., Hashemipour M.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.26, pp.909-920, 2017 (Journal Indexed in SCI)
- XVI. **Microstructure and mechanical properties of friction stir welded thick pure copper plates**
Azizi A., Barenji R. V., VATANKHAH BARENJI R., Hashemipour M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.86, pp.1985-1995, 2016 (Journal Indexed in SCI)
- XVII. **Electrical discharge machining of the AISI D6 tool steel: Prediction and modeling of the material removal rate and tool wear ratio**
VATANKHAH BARENJI R., Pourasl H. H., Khojastehnezhad V. M.
PRECISION ENGINEERING-JOURNAL OF THE INTERNATIONAL SOCIETIES FOR PRECISION ENGINEERING AND NANOTECHNOLOGY, vol.45, pp.435-444, 2016 (Journal Indexed in SCI)
- XVIII. **Influence of heat input conditions on microstructure evolution and mechanical properties of friction stir welded pure copper joints**
Barenji R.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.69, pp.1077-1085, 2016 (Journal Indexed in SCI)
- XIX. **Wear properties of Al-Al₂O₃/TiB₂ surface hybrid composite layer prepared by friction stir process**
Barenji R., Khojastehnezhad V. M., Pourasl H. H., Rabieezadeh A.
JOURNAL OF COMPOSITE MATERIALS, vol.50, pp.1457-1466, 2016 (Journal Indexed in SCI)
- XX. **Effect of tool traverse speed on microstructure and mechanical performance of friction stir welded 7020 aluminum alloy**
Barenji R.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.230, pp.663-673, 2016 (Journal Indexed in SCI)
- XXI. **Flexible testing platform for employment of RFID-enabled multi-agent system on flexible assembly line**
Barenji A. V., Barenji R. V., Hashemipour M.

- Advances in Engineering Software, vol.91, pp.1-11, 2016 (Journal Indexed in SCI)
- XXII. **Elucidating of tool rotational speed in friction stir welding of 7020-T6 aluminum alloy**
GOLEZANI A. S. , Barenji R. V. , HEIDARZADEH A., POURALIAKBAR H.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.81, pp.1155-1164, 2015 (Journal Indexed in SCI)
- XXIII. **Introducing natural hydroxyapatite-diopside (NHA-Di) nano-bioceramic coating**
KHANDAN A., ABDELLAHI M., Barenji R. V. , OZADA N., KARAMIAN E.
CERAMICS INTERNATIONAL, vol.41, pp.12355-12363, 2015 (Journal Indexed in SCI)
- XXIV. **Tensile Properties of Friction Stir Welds of AA 7020 Aluminum Alloy**
Heidarzadeh A., Barenji R. V. , Esmaily M., Ilkhichi A. R.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.68, pp.757-767, 2015 (Journal Indexed in SCI)
- XXV. **Mechanical activation process for self-propagation high-temperature synthesis of ceramic-based composites**
FARHANCHI M., Neysari M., VATANKHAH BARENJI R., HEIDARZADEH A., MOUSAVIAN R. T.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.122, pp.123-133, 2015 (Journal Indexed in SCI)
- XXVI. **A framework for modelling enterprise competencies: from theory to practice in enterprise architecture**
Barenji R., HASHEMIPOUR M., GUERRA-ZUBIAGA D. A.
INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING, vol.28, pp.791-810, 2015 (Journal Indexed in SCI)
- XXVII. **Establishing Mathematical Models to Predict Grain Size and Hardness of the Friction Stir-Welded AA 7020 Aluminum Alloy Joints**
ILKHICHI A. R. , SOUFI R., HUSSAIN G., Barenji R. V. , HEIDARZADEH A.
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.46, pp.357-365, 2015 (Journal Indexed in SCI)
- XXVIII. **A multi-agent RFID-enabled distributed control system for a flexible manufacturing shop**
Barenji R., BARENJI A. V. , HASHEMIPOUR M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.71, pp.1773-1791, 2014 (Journal Indexed in SCI)
- XXIX. **A FRAMEWORK FOR STRUCTURAL MODELLING OF AN RFID-ENABLED INTELLIGENT DISTRIBUTED MANUFACTURING CONTROL SYSTEM**
BARENJI A. V. , Barenji R. V. , HASHEMIPOUR M.
SOUTH AFRICAN JOURNAL OF INDUSTRIAL ENGINEERING, vol.25, pp.48-66, 2014 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **TOWARDS A DIGITAL TWIN FOR CLOUD MANUFACTURING-CASE STUDY**
Ngo D., Guerra-Zubiaga D. A. , Gonzalez-Badillo G., VATANKHAH BARENJI R.
ASME International Mechanical Engineering Congress and Exposition (IMECE2018), Pennsylvania, United States Of America, 9 - 15 November 2018
- II. **Enterprise competency modelling in practice-an exploratory case study**
VATANKHAH BARENJI R., Hashemipour M., Guerra-Zubiaga D. A.
8th International Conference on Digital Enterprise Technology (DET), Stuttgart, Germany, 25 - 28 March 2014, vol.25, pp.426-430

Citations

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