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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Eastern Mediterranean University, Faculty Of Engineering, Makina Mühendisliği, Cyprus (Kktc) 2007 - 2014

Postgraduate, University of Tehran, Mühendislik Fakültesi, Makina Mühendisliği, Iran 2002 - 2005

Undergraduate, University of Tehran, 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

Postgraduate, 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 University, 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 ALGOTİTMASINA DAYALI BİR RÜZGAR/FOTOVOLTAİK/YAKIT HÜCRELİ HİBRİT SİSTEMİN OPTİMAL BÜYÜKLÜKTEKİ TASARIMI, Postgraduate, I.ASGHARI(Student), 2018

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

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

VATANKHAH BARENJI R., An Automated Guided Vehicle (AGV) in Sprinkler Irrigation, Postgraduate, 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, Postgraduate, A.Akbar(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On the development of blockchain-based learning management system as a metacognitive tool to support self-regulation learning in online higher education**
Saadati Z., Zeki C. P., VATANKHAH BARENJI R.
INTERACTIVE LEARNING ENVIRONMENTS, vol.31, no.5, pp.3148-3171, 2023 (SSCI)
- II. **Casting fluidity, viscosity, microstructure and tensile properties of aluminum matrix composites with different Mg₂Si contents**
VATANKHAH BARENJI R.
RARE METALS, vol.41, no.8, pp.2767-2776, 2022 (SCI-Expanded)
- III. **A blockchain technology based trust system for cloud manufacturing**
VATANKHAH BARENJI R.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.33, no.5, pp.1451-1465, 2022 (SCI-Expanded)
- IV. **Towards Pharma 4.0 in clinical trials: A future-orientated perspective**
Hariry R. E., VATANKHAH BARENJI R., Paradkar A.
DRUG DISCOVERY TODAY, vol.27, no.1, pp.315-325, 2022 (SCI-Expanded)
- V. **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 (SCI-Expanded)
- VI. **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, no.5, pp.900-912, 2019 (SCI-Expanded)
- VII. **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, no.4, pp.763-775, 2019 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)

- IX. **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 (SCI-Expanded)
- X. **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, no.6, pp.1053-1070, 2018 (SSCI)
- XI. **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 (SCI-Expanded)
- XII. **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 (SCI-Expanded)
- XIII. **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, no.1, pp.66-74, 2018 (SCI-Expanded)
- XIV. **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, no.1, 2018 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **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, no.6, pp.447-458, 2017 (SCI-Expanded)
- XVII. **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 (SCI-Expanded)
- XVIII. **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, no.2, pp.909-920, 2017 (SCI-Expanded)
- XIX. **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, no.1, pp.83-90, 2017 (SCI-Expanded)
- XX. **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 (SCI-Expanded)
- XXI. **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 (SCI-Expanded)

- XXII. **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, no.5, pp.1077-1085, 2016 (SCI-Expanded)
- XXIII. **Wear properties of Al-Al₂O₃/TiB₂ surface hybrid composite layer prepared by friction stir process**
Barenji R., Khojastehnezhad V. M., Pourasl H. H., Rabiezhadeh A.
JOURNAL OF COMPOSITE MATERIALS, vol.50, no.11, pp.1457-1466, 2016 (SCI-Expanded)
- XXIV. **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, no.2, pp.663-673, 2016 (SCI-Expanded)
- XXV. **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 (SCI-Expanded)
- XXVI. **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 (SCI-Expanded)
- XXVII. **Introducing natural hydroxyapatite-diopside (NHA-Di) nano-bioceramic coating**
KHANDAN A., ABDELLAHI M., Barenji R. V., OZADA N., KARAMIAN E.
CERAMICS INTERNATIONAL, vol.41, no.9, pp.12355-12363, 2015 (SCI-Expanded)
- XXVIII. **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, no.5, pp.757-767, 2015 (SCI-Expanded)
- XXIX. **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, no.1, pp.123-133, 2015 (SCI-Expanded)
- XXX. **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, no.8, pp.791-810, 2015 (SCI-Expanded)
- XXXI. **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, no.1, pp.357-365, 2015 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- XXXIII. **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, no.2, pp.48-66, 2014 (SCI-Expanded)

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

Supported Projects

VATANKHAH BARENJI R., Project Supported by Higher Education Institutions, ECBA2016 Konferansı, 2016 - 2020

VATANKHAH BARENJI R., VATANKHAH BARENJİ A., Project Supported by Higher Education Institutions, Kitleli Bireyselleştirilmedeki Verimli Kaynak Ayrımı İçin Hizmet Odaklı Bir Yapının Tasarlanması, 2015 - 2020

Metrics

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Citation (Scopus): 232

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H-Index (Scopus): 9