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International Researcher IDs

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Publons / Web Of Science ResearcherID: AGD-0265-2022

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Mekatronik Mühendisliđi , Turkey 2023 - Continues

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Mekatronik Mühendisliđi , Turkey 2021 - 2023

Undergraduate, Izmir Katip Celebi University, Mühendislik Fakóltesi , Mekatronik Mühendisliđi , Turkey 2015 - 2020

Research Areas

Nonlinear Systems, System Diagnostics, Robotics and Mechatronics Systems, Artificial Intelligence, Computer Learning and Pattern Recognition, Renewable energy, Alternate Fuels and Energy Resources, Electrical energy storage technologies

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Assessment of Vehicle-Integrated Photovoltaics: A financial and environmental perspective**
Parlak B. O., Yavařođlu H. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.72, no.104042, pp.1-13, 2024 (SCI-Expanded)
- II. **Enhancing hovercraft energy performance: Adaptive lift fan control for optimal efficiency**
Rezaei S., Parlak B. O., Yavařođlu H. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.71, pp.1-10, 2024 (SCI-Expanded)
- III. **In-depth analysis of battery life enhancement in solar-assisted fuel-cell range-extender vehicles**
PARLAK B. O., YAVAřOĐLU H. A., Ozcan H. G.
International Journal of Hydrogen Energy, vol.67, pp.1033-1043, 2024 (SCI-Expanded)
- IV. **A Comprehensive Analysis of In-Line Inspection Tools and Technologies for Steel Oil and Gas Pipelines**

Parlak B. O., Yavaşođlu H. A.
Sustainability (Switzerland), vol.15, no.3, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of Regression Algorithms to Predict Average Air Temperature**
PARLAK B. O., YAVAŞOĐLU H. A.
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.15, no.1, pp.312-322, 2023 (Peer-Reviewed Journal)
- II. **Design of a State-Feedback Control System for Sugar Tank Liquid Level Management**
Parlak B. O., Yavaşođlu H. A.
International Journal of Sivas University of Science and Technology, vol.1, no.2, pp.13-34, 2022 (Peer-Reviewed Journal)
- III. **Fuzzy Decision Based Modeling of Rheostatic Brake System for Autonomous Land Vehicles**
Sünkün S., Parlak B. O., Yıldırım A., Yavaşođlu H. A.
Journal of Computer Science, vol.2022, pp.144-150, 2022 (Conference Book)
- IV. **Design of a Toolbox for Kinematic Analysis of Jansen's Linkage**
Sünkün S., Parlak B. O., Yıldırım A., Yavaşođlu H. A.
Journal of Computer Science, vol.2022, pp.112-119, 2022 (Conference Book)

Books & Book Chapters

- I. **Assembly & C Programming for PIC16F887 Microcontroller**
Yavaşođlu H. A., Parlak B. O.
Yıldız Teknik Üniversitesi Basım Yayın Merkezi, İstanbul, 2023
- II. **Mikroişlemciler ve Programlanması**
Yavaşođlu H. A., Parlak B. O.
Yıldız Teknik Üniversitesi Basım Yayın Merkezi, İstanbul, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Optimizing Energy Efficiency in Hovercraft through Adaptive Control of Lift Fan**
Rezaei S., Parlak B. O., Yavaşođlu H. A.
The 18th SDEWES Conference, Dubrovnik, Croatia, 24 - 29 September 2023
- II. **Are Solar-Assisted Electric Vehicles a Rational Investment?**
Yavaşođlu H. A., Parlak B. O.
The 18th SDEWES Conference, Dubrovnik, Croatia, 24 - 29 September 2023
- III. **Level Control of a Crude Oil Tank using Fuzzy-PID Controller**
Sünkün S., Parlak B. O., Akca T. B.
7th International Artificial Intelligence and Data Processing Symposium, Malatya, Turkey, 7 - 08 September 2023, pp.104-114
- IV. **Geometric Deformations in Natural Gas Pipelines**
Parlak B. O., Yavaşođlu H. A.
The 3rd LA SDEWES Conference, Sao-Paulo, Brazil, 24 - 28 July 2022
- V. **A Review on Oil and Gas Pipelines In-Line Inspection Tools and Technologies**
Parlak B. O., Yavaşođlu H. A.
The 3rd LA SDEWES Conference, Sao-Paulo, Brazil, 24 - 28 July 2022