

## Lect. HAMZA AYDEMİR

### Personal Information

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### International Researcher IDs

ScholarID: TC-gfCMAAAAJ

ORCID: 0000-0002-2657-3195

Publons / Web Of Science ResearcherID: GXV-0424-2022

ScopusID: 57362188500

Yoksis Researcher ID: 77F062110EDAEC48

### Education Information

Doctorate, Hacettepe University, Eğitim Bilimleri Enstitüsü, Bilgisayar Ve Öğretim Teknolojileri Eğitimi A.B.D., Turkey 2022 - Continues

Postgraduate, Kahramanmaraş Sutcu Imam University, Institute Of Science, Department Of Informatics (Interdisciplinary), Turkey 2019 - 2022

Undergraduate, Hacettepe University, Eğitim Fakültesi, Bilgisayar Ve Öğ.Tek.Eği. Bölümü, Turkey 2013 - 2017

### Certificates, Courses and Trainings

IT, CCNA Discovery: Networking for Home and Small Businesses, Kahramanmaraş Technical High School, 2012

### Dissertations

Postgraduate, Complete coverage planning with clustering method for autonomous mobile robots, Kahramanmaraş Sutcu Imam University, Institute Of Science, Department Of Informatics (Interdisciplinary), 2021

### Research Areas

Information Technologies, Computer Education and Instructional Technology, Information Systems, Communication and Control Engineering, Robotics and Mechatronics Systems, Field and Service Robots, Computer Vision, algorithms, Computer Graphics, Augmented Reality, Information Visualization, Computer Graphics, Virtual Reality, Computer Vision, 3D Impressions, Computer Learning, Human Computer Interaction, Pattern Recognition and Image Processing, Software, Operating Systems, Programming Languages, Engineering and Technology

### Academic Titles / Tasks

Lecturer, Yozgat Bozok University, Boğazlıyan Meslek Yüksekokulu, Bilgisayar Teknolojileri, 2022 - Continues

## Academic and Administrative Experience

Assistant Manager of Research and Application Center, Yozgat Bozok University, Uzaktan Öğretim Uygulama ve Araştırma Merkezi, 2023 - Continues

## Courses

Game Design and Programming, Associate Degree, 2022 - 2023  
Information and Communication Technologies, Associate Degree, 2022 - 2023  
Web Design Fundamentals, Associate Degree, 2023 - 2024  
Fundamentals of Cyber Security, Undergraduate, 2023 - 2024  
Foundations of Cyber Safety, Associate Degree, 2022 - 2023  
Cyber Security Fundamentals, Associate Degree, 2022 - 2023  
Advanced Software Techniques, Associate Degree, 2023 - 2024  
Cyber Security Fundamentals, Associate Degree, 2022 - 2023  
Mobile Programming, Associate Degree, 2022 - 2023  
Advanced Internet Programming, Associate Degree, 2023 - 2024

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. Complete coverage planning with clustering method for autonomous mobile robots**  
AYDEMİR H., Tekerek M., Gök M.  
Concurrency and Computation: Practice and Experience, vol.35, no.26, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- I. Mathematics and Science Integration with Robotics**  
Tekerek B., Aydemir H., Tekerek M.  
Ordu Üniversitesi Sosyal Bilimler Enstitüsü Sosyal Bilimler Araştırmaları Dergisi, vol.13, no.1, pp.1-28, 2023 (Peer-Reviewed Journal)
- II. Examining of the Effect of Geometric Objects on SLAM Performance Using ROS and Gazebo**  
Aydemir H., Tekerek M., Gök M.  
El-Cezeri Journal of Science and Engineering, vol.8, no.3, pp.1444-1451, 2021 (Scopus)

## Books & Book Chapters

- I. Mobil Oyunların Kullanılabilirlik Değerlendirmesi: Türkçe Sözlük Oyunu Örneği**  
AYDEMİR H., GÖNCÜ A., KOYUNCU B., TÜZÜN H.  
in: Eğitim Teknolojileri Okumaları 2023, , Editor, Pegem Akademi, Ankara, pp.375-395, 2023
- II. Otonom Mobil Robotlar İçin ROS El Kitabı**  
Tekerek M., Gök M., Aydemir H.  
NEÜ Yayınları, Konya, 2022
- III. Robot Tasarımı ve Programlama**  
Tekerek M., Aydemir H., Gök M.  
Gilbo, İstanbul, 2020
- IV. STEM Associated Robotics Education**  
Tekerek M., Aydemir H., Uzun E., Tekerek B.  
Gilbo, İstanbul, 2020

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Digital game development processes and an educational game example**

Aydemir H., Tekerek M.

EDUCCON 2022 Digital Competence & STE(A)M Education, Kahramanmaraş, Turkey, 24 - 25 March 2022, pp.88-96

### **II. Reinforcement learning based local path planning for mobile robot**

Tekerek M., Aydemir H.

Interdisciplinary Conference on Mechanics, Computers and Electrics, Ankara, Turkey, 27 - 28 November 2021, pp.197-201

## **Supported Projects**

Aydemir H., Tekerek M., Eren A. S., Erasmus Project, Education 4.0 for Youth, 2021 - 2022

Tekerek M., Eren A. S., Aydemir H., Development Agency, Kahramanmaraş Artificial Intelligence Verbal Data Labelling Centre Feasibility Project, 2021 - 2022

Aydemir H., Tekerek M., Eren A. S., Development Agency, Kahramanmaraş Fashion and Design Academy, 2020 - 2022

## **Activities in Scientific Journals**

Computers and Informatics, Assistant Editor/Section Editor, 2020 - Continues

## **Scientific Refereeing**

Technopark, Yozgat Bozok University, Turkey, May 2023

Technopark, Yozgat Bozok University, Turkey, December 2022

## **Tasks In Event Organizations**

Aydemir H., International Symposium on Advanced Engineering Technologies (ISADET), Scientific Congress, Kahramanmaraş, Turkey, Haziran 2022

Aydemir H., EDUCCON 2022 Digital Competence & STE(A)M Education, Scientific Congress, Kahramanmaraş, Turkey, Mart 2022

Aydemir H., EDUCCON 2020 Empower Teaching Studies, Scientific Congress, Kahramanmaraş, Turkey, Aralık 2020