



INTERNATIONAL JOURNAL OF
ADVANCED VIRTUAL REALITY



VOLUME 02
YEAR 2025



ISSUE 01
DECEMBER

Sponsored By
Leukolion Informatics

e-ISSN: 2980-0897

Founded: 2022

Period: Biannually

Publisher: Dursun Akaslan

INTERNATIONAL JOURNAL OF ADVANCED VIRTUAL REALITY

Vol.02 Issue.01 Page.01-68 (2025)

CONTENTS

Publisher	IV
Editor-In-Chief	IV
Abstracting & Indexing.....	V
Editors	VI
Assistant Editors	VI
Publication and Advisory Boards	VI
Reviewers	VII
Authors	VII
Articles	VIII

Agnostic Extended Reality Development Strategies and Policies:
A Systematic Literature Review.

Virtual Reality in Agriculture: Applications and Challenges for
Sustainable Farming

The Impact of Virtual Reality on Children

Integration of AR/VR Technologies with Artificial Intelligence
in Museums

3-point Tracking with Procedural and Baked Animation and
Inverse Kinematic to Create a Closer Realistic Full-body
Movement in Virtual Reality

INTERNATIONAL JOURNAL OF ADVANCED VIRTUAL REALITY

Targets and Scope

International Journal of Advanced Virtual Reality is an international refereed journal that publishes articles in the field of Augmented Reality, Mixed Reality and Virtual Reality.

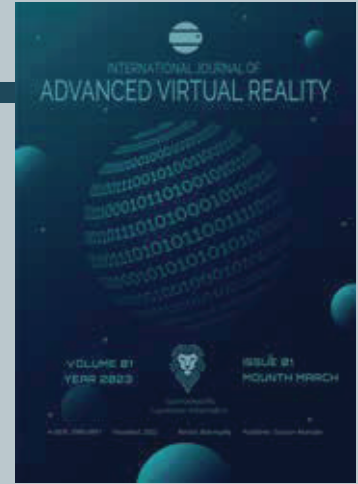
International Journal of Advanced Virtual Reality aims to provide a ground where leading industrial researchers, scientists, engineers, practitioners and students from universities, research institutes, industries and organizations all around the world can exchange their latest research ideas, methods, findings and share their experiences.

International Journal of Advanced Virtual Reality publishes two issues in March and December between the first and last days of each mentioned month.

International Journal of Advanced Virtual Reality is free, open access and does not charge any fees under any name such as Article Processing Fees.

International Journal of Advanced Virtual Reality uses a double-sided blind review system. The referee list is published on the web page of the journal at the beginning of each issue.

International Journal of Advanced Virtual Reality or its published articles are indexed, abstracted, hosted or scanned by the following databases, search engines or hostings:



Publisher

Prof. Dr. Dursun Akaslan
Harran University
Faculty of Engineering
Department of Software Engineering

Osmanbey Campus, Haliliye
Şanlıurfa, Türkiye

info@leukolion.com
<http://www.leukolion.com>
ORCID: 0000-0003-3432-8154

Editor

Prof. Dr. Dursun Akaslan









Graphic Design

Assoc. Prof. Dr. Özlem Vargün

© **Copyright:** All rights reserved/
International Journal Of
Advanced Virtual Reality and
Leukolion Informatics.
International Journal Of
Advanced Virtual Reality pub-
lished twice a year

Abstracting and Indexes

The International Journal of Advanced Virtual Reality or its published articles are indexed, abstracted, hosted or scanned by the following databases, search engines or hostingers:

Zenodo	25 Feb 2023	
OpenAIRE	25 Feb 2023	
Google Scholar	25 Feb 2023	
Base	06 March 2023	
DataCite	06 March 2023	
Academic Resource Index	07 March 2023	
DRJI	07 March 2023	
ROAD	07 March 2023	
ACADEMINDEX	10 Jan 2024	
INDEX COPERNICUS	17 Jan 2024	
İZMİR UNIVERSITY OF ECONOMICS	01 Feb 2024	
IDEALONLINE	05 Feb 2024	

Editorial Board

Editor-in-Chief		
Name	Organization	Country
Prof. Dr. Dursun Akaslan	Harran University	Türkiye
Editors		
Name	Organization	Country
Prof Dr.Hüsamettin Bulut	Harran University	Türkiye
Prof. Dr. Ramesh C. Sharma	Ambedkar University	India
Prof. Dr. Sezai Taşkın	Manisa Celal Bayar University	Türkiye
Assoc. Prof. Dr. Muhammad Muzammal	Northumbria University	England
Dr. Yash Paul Sharma	NCERT	India
Doç. Dr. Özlem Vargün	Harran University	Türkiye
Assistant Editors		
Name	Organization	Country
Songül Akdağ	Harran University	Türkiye
Handan Gümüş	Harran University	Türkiye
Publication and Advisory Board		
Name	Organization	Country
Prof. Dr. Ümit Kul	Artvin Çoruh University	Türkiye
Asst. Prof. Dr. Fred Barış Ernst	Harran University	Türkiye
Asst. Prof. Dr. Mehmet Hadi Suzer	Harran University	Türkiye

Reviewers

Name	Organization	Country
Kezia Herman Mkwizu	The Open University of Tanzania	Tanzania
Vehbi Balak	Harran University	Türkiye
Alfredo Eurico Rodrigues Matta	Escavador	Spain
Jiyasa Agarwal	OCAD University	India
Jason Robert Rameshwar	The University of The West Indies	Trinidad & Tobago
Mehmet Emin Tenekeci	Harran University	Türkiye
Kemal Güner	Harran University	Türkiye

Authors

Name	Organization	Country
Jason Robert Rameshwar	The University of The West Indies	Trinidad & Tobago
Graham S. King	The University of The West Indies	Trinidad & Tobago
Cengiz Kaya	Harran University	Türkiye
Şeyda İnce Sezer	Harran University	Türkiye
Özlem Vargün	Harran University	Türkiye
Raymond Leonardo Chandra	RWTH Aachen University	Germany

ARTICLES

- 1** Agnostic Extended Reality Development Strategies and Policies:
A Systematic Literature Review
Pages: 01-23
Jason Robert Rameshwar, Graham S. King, University of the West Indies
- 2** Virtual Reality in Agriculture: Applications and Challenges for
Sustainable Farming
Pages: 24-37
Cengiz KAYA, Harran University
- 3** The Impact of Virtual Reality on Children
Pages: 38-44
Şeyda İnce Sezer, Harran University
- 4** Integration of AR/VR Technologies with Artificial Intelligence
in Museums
Pages: 45-55
Özlem Vargün, Harran University
- 5** 3-point Tracking with Procedural and Baked Animation and
Inverse Kinematic to Create a Closer Realistic Full-body
Movement in Virtual Reality
Pages: 58-68
Raymond Leonardo Chandra, RWTH Aachen University