

e-ISSN 3031-8963

**GAM**  **GAMEOLOGY  
AND MULTIMEDIA  
EXPERT**

Volume 2, No 2, April, 2025

---

**EDITORIAL BOARD**

---

**Chief in Editor**

**Sujacka Retno, S.T., M.Kom**, Universitas Malikussaleh

---

**Section Editor**

**Rozzi Kesuma Dinata, S.T., M.Eng**, Universitas Malikussaleh  
**Said Fadlan Anshari, S.Kom., M.Kom**, Universitas Malikussaleh

---

**Editor**

**Wahyu Fuadi, S.T., M.IT**, Universitas Malikussaleh  
**Novia Hasdyna, S.T., M.Kom**, Universitas Islam Kebangsaan Indonesia  
**Ahmad Ihsan, S.T., M.T**, Universitas Samudra  
**Firma Sahrul Bahtiar, M.Eng**, UIN Maulana Malik Ibrahim Malang  
**Diah Ayu Retnani Wulandari, S.T., M.Eng**, Universitas Jember  
**Ummu Radiyah, S.Kom., M.Eng**, Universitas Nusa Mandiri

---

**Assistant Editor**

**Kurniawati, S.Pd., M.A**, Universitas Malikussaleh  
**Baringin Sianipar, S.Kom., M.Kom**, STMIK Pelita Nusantara

---

**Peer Reviewers**

**Prof. Dr. Muhammad Zarlis, M.Sc**, Universitas Bina Nusantara  
**Prof. Dr. Syahril Efendi, M.IT**, Universitas Sumatera Utara  
**Prof. Dr. Herman Mawengkang**, Universitas Sumatera Utara  
**Prof. Dr. Dahlan Abdullah, S.T., M.Kom**, Universitas Malikussaleh  
**Dr. Erna Budhiarti Nababan, M.IT**, Universitas Sumatera Utara  
**Dr. Eng. Muhammad Fikry, S.Kom., M.Kom**, Universitas Malikussaleh  
**Munirul Ula, S.T., M.Eng., Ph.D**, Universitas Malikussaleh  
**Dr. Nurdin, S.Kom., M.Kom**, Universitas Malikussaleh

---

**Published by**

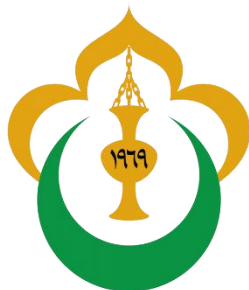
Universitas Malikussaleh  
Jl. Batam. Kampus Bukit Indah. Gedung Prodi Teknik Informatika. Blang Pulo.  
Lhokseumawe. Aceh. Indonesia.

---

**Contact Person**

Mail to: [game@unimal.ac.id](mailto:game@unimal.ac.id)

---



universitas  
**MALIKUSSALEH**

## ACKNOWLEDGEMENTS

We are delighted to present the issue of the Gameology and Multimedia Expert, Volume 2, Number 2, for the month of April 2025. This milestone would not have been possible without the dedicated efforts of numerous individuals and organizations.

First and foremost, we extend our sincere gratitude to the authors who have contributed their insightful research articles to this edition. Your commitment to advancing gameology and multimedia is truly commendable.

We would also like to express our appreciation to the peer reviewers who generously shared their expertise and provided constructive feedback to enhance the quality of the submitted manuscripts. Your invaluable contributions have played a pivotal role in maintaining the high standards of GAME.

Furthermore, our heartfelt thanks go to the editorial board members for their tireless efforts in the review and selection process. Your commitment to ensuring the relevance and rigor of the journal has been instrumental in shaping the content of this issue.

Last but not least, we would like to thank our readers and the broader academic community for their interest in GAME. Your support is crucial in establishing GAME as a reputable platform for disseminating cutting-edge research in the field of game development and multimedia.

We are excited about the journey ahead and look forward to continuing to serve as a valuable resource for researchers and practitioners alike. Thank you for being a part of the GAME community.

Sincerely,

**[Sujacka Retno, S.T., M.Kom]**

Editor-in-Chief

Gameology And Multimedia Expert

**TABLE OF CONTENTS**

<b>Editorial Board</b> .....	<b>i</b>
<b>Acknowledgements</b> .....	<b>ii</b>
<b>Table of Contents</b> .....	<b>iii</b>
Introduction and Basic Calculation Guide Using Ayo Menghitung Application for Early Childhood <b>Cut Agusniar, Husna Gemasih, Reza Zubaedah</b> .....	<b>39-44</b>
Implementation of Game Design Document (GDD) in the Development of the 2D Android-Based Game Komodo Isle <b>Sujacka Retno</b> .....	<b>45-54</b>
Adventure Time: Dilo World – An Adventure Game with Educational Elements for Kids <b>Usi Elistatia, Sisca Permatasari</b> .....	<b>55-62</b>
Design of the Educational Game Nusantara Adventure <b>Nasrullah</b> .....	<b>63-69</b>
Development of an Educational Game Based on Picture Quiz as an Interactive Learning Medium <b>Handry Eldo, Muazziss Najmi</b> .....	<b>70-74</b>