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TABLE OF CONTENTS

EDITORIAL TEAM	i
TABLE OF CONTENTS.....	iii
PREFACE	iv
Development of Application Based on Augmented Reality as A Learning of History and Culture in Architecture Case Study: Pathok Negoro Mosques Yogyakarta.....	1
Hendro Trieddiantoro Putro ¹ , Endang Setyawati ²	1
Design of Simple Acoustic Materials for High School Hall Using Software CATT	10
Maria Christina Prasetya ¹	10
Application of Artificial Intelligence in Digital Architecture to Identify Traditional Javanese Buildings	20
Sri Winiarti ¹ , Heri Pramono ² , Andri Pranolo ³	20
A Bibliometric Analysis of Generative Design, Algorithmic Design, and Parametric Design in Architecture	30
Brigitta Michelle ¹ , Maria Putri Gemilang ²	30
The Influence of Circulation Patterns on The Visitor Distribution in A Shopping Mall Case Study Palembang Icon Shopping Center, Palembang City	41
Jessica Oktaviana ¹ , Dhita Wahyu Anggraeni ²	41
JARINA Manuscript Template	52



PREFACE

Nowadays, digital technology in architectural design is not limited to 3D modeling, building information modeling (BIM), and building performance simulation. Artificial intelligence (AI) seems to revolutionize architectural design. The current development in architecture shows that AI makes the architectural design process much easier by providing access to big data, creating models, interpreting the built environment, and estimating costs. Spatial experience in architectural design is possible to obtain virtually. Virtual reality enables our brain to utilize spatiotemporal orientation and problem-solving capabilities, thus, making the textures, lighting, and finer details more believable and providing an immersive experience. This rapid change in the disruptive era demands updates on knowledge and upgrades on skills.

Journal of Artificial Intelligence in Architecture (JARINA) aims to provide information about new research results about AI in Architecture, supported by relevant, firm, and ample proof of its reliability. We are glad to publish five papers for the first issue that have been rigorously reviewed before being accepted. One article describes how the role of AI evolved in architectural design. The others present research results about the applications of AI in architectural design and learning of architecture history. The studies comprise the use of supervised learning to identify Javanese traditional building typology based on the ornaments and elements, augmented reality as a learning tool, the space syntax to analyze the influence of circulation pattern on the visitor distribution in a commercial building, and a simulation program for improving the acoustic performance.

We believe that all the papers published in this first issue could enrich the architectural design process and learning process of the history of architecture. We thank all authors who have dedicated their time to contribute to this first issue. We appreciate it very much.

Floriberta Binarti

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J A R I N A

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