



UNIVERSITAS
KRISTEN
MARANATHA



SMART TECHNOLOGY
& ENGINEERING

JOURNAL OF SMART TECHNOLOGY AND ENGINEERING

Vol. 02 | No. 01 | Page 01-74

March 2026



<https://journal.maranatha.edu/index.php/jste/index>



**SMART TECHNOLOGY
& ENGINEERING**

JOURNAL OF SMART TECHNOLOGY AND ENGINEERING

Volume 2 | No. 1 | March 2026

ISSN: 3110-8652

Smart Technology and Engineering is a peer-reviewed academic journal dedicated to the dissemination of innovative research and developments in the fields of smart technologies, intelligent systems, and modern engineering solutions. The journal serves as a platform for academics, researchers, engineers, and industry professionals to share their insights and advancements that shape the future of engineering in a digital and sustainable world. As the global focus shifts toward environmentally responsible and efficient technologies, the journal actively promotes research that integrates intelligence with sustainability principles—supporting innovations that are not only technologically advanced but also eco-friendly and socially impactful. By encouraging interdisciplinary collaboration and the integration of cutting-edge technologies, Smart Technology and Engineering aims to bridge the gap between theoretical research and real-world applications. The journal publishes four issues every year, ensuring a consistent and timely dissemination of the latest research and developments in the field. Through original research articles, technical reports, and review papers, Smart Technology and Engineering aims to be at the forefront of the transition toward smarter, and more adaptive engineering solutions for the modern world.

Editor in Chief

Adelia, S.Kom., M.T, Universitas Kristen Maranatha, Bandung, Indonesia

Executive Editor

Florence Leony, S.T., M.Sc., Ph.D., Universitas Kristen Maranatha, Bandung, Indonesia

Section Editors

David Try Liputra, S.T., M.T., Universitas Kristen Maranatha, Bandung, Indonesia

Diana Trivena Yulianti, S.Kom., M.T., Universitas Kristen Maranatha, Bandung, Indonesia

Dr. Timotius Witono, S.Kom., M.T., Universitas Kristen Maranatha, Bandung, Indonesia

Guest Editor

Dr. Ir. Iwan Setyawan, Universitas Kristen Satya Wacana, Salatiga, Indonesia

Reviewers

Andreas Widjaja, S.Si., M.Sc., Ph.D., Universitas Kristen Maranatha, Bandung, Indonesia

Dr. Bayu Rima Aditya, S.T., M.T., Universitas Telkom, Bandung, Indonesia

Markus Tanubrata, S.T., M.M., M.T., Universitas Kristen Maranatha, Bandung, Indonesia

Meliana Christianti Johan, S.Kom., M.T., Universitas Kristen Maranatha, Bandung, Indonesia

Robby, S.T., M.Kom., Universitas Kristen Maranatha, Bandung, Indonesia

Sendy Ferdian Sujadi, S.Kom., M.T., Universitas Kristen Maranatha, Bandung, Indonesia

Sulaeman Santoso, S.Kom., M.T., Universitas Kristen Maranatha, Bandung, Indonesia
Wenny Franciska Senjaya, S.Kom., M.T., Ph.D, Universitas Kristen Maranatha, Bandung,
Indonesia



**SMART TECHNOLOGY
& ENGINEERING**

JOURNAL OF SMART TECHNOLOGY AND ENGINEERING

Volume 2 | No. 1 | March 2026

ISSN: 3110-8652

Office

Faculty of Smart Technology and Engineering
Universitas Kristen Maranatha
Jl. Prof. drg. Surya Sumantri, M.P.H. No. 65
Bandung 40164, Jawa Barat, Indonesia
Telp: +62 22 201 2186 ext. 1201
Email: jste@maranatha.edu

Publisher

Universitas Kristen Maranatha
Jl. Prof. drg. Surya Sumantri, M.P.H. No. 65
Bandung 40164, Jawa Barat, Indonesia
Telp: +62 22 201 2186



<https://journal.maranatha.edu/index.php/jste>



**SMART TECHNOLOGY
& ENGINEERING**

JOURNAL OF SMART TECHNOLOGY AND ENGINEERING

Volume 2 | No. 1 | March 2026

ISSN: 3110-8652

Table of Contents

Development of the SATUINBOX Website at PT. X	01 – 13
Nathaniel Valentino Robert, Andreas Widjaja	
Development of a Web-Based Information System for Managing Collaboration Data, Student Activities, and Student Achievements at the Faculty of Smart Technology and Engineering, Maranatha Christian University	14 – 25
Nicole Jade Tirtanimala, Wenny Franciska Senjaya	
Brain Tumor Segmentation Evaluation and Overall Survival Prediction on the BRATS 2020 Dataset	26 – 30
Annisa Maizano Fahlevi, Riko Arlando Saragih	
Design and Development of Systems for Several Projects at PT X	31 – 40
Olivia Justine Audia, Adelia	
Design of a Data Visualization Dashboard for TripVerse Hotel Booking Performance	41 – 58
Elroy Matthew Wiyanto	
Digital Marketing Strategy Through Social Media and Marketplace for Awareness and Engagement	59 – 74
Ebenhazer Richard Handoko, Radiant Victor Imbar	