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## PREFACE

Editor of the journal TECHNO Nusa Mandiri (TECHNO), said praise and gratitude to the presence of Allah S.W.T, creator of the universe who mastered knowledge as wide as heaven and earth, for the abundance of grace and gifts that have been given to the editor of TECHNO for publishing TECHNO Vol. 16, No. 2, September 2019. TECHNO has the status of an Accredited National Journal accredited by the Indonesian Ministry of Research and Higher Education at the Sprott S4 level, in accordance with the Decree of Strengthening Research and Development Decree No. 21 / E / KPT / 2018, which has been in effect since July 9, 2018, for 5 years which is used by lecturers, researches, and professionals as a medium or media to publish publications on the findings of research conducted in each semester.

TECHNO is published 1 (one) year for 2 (two) times at the beginning of each semester, TECHNO editors receive scientific articles from research results, reports/case studies, information technology studies, and information systems, which are oriented to the latest in science and information technology in order to be a source of scientific information that is able to contribute to the increasingly complex development of information technology.

The editor invited fellow researchers, scientists from various higher education institutions to make scientific contributions, both in the form of research results and scientific studies in the fields of informatics, computer science, and information technology. The editors really expect input from readers, professionals, or related to publishing, for the sake of increasing the quality of the journal as we all hope.

The editor hopes that scientific articles contained in the TECHNO scientific journal will be useful for academics and professionals working in the world of management, education, and information technology.

Chief Editor



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