

• **Editorial-Chief**

*Fumitoshi Yoshikawa*

• **Editorial Advisors**

*Omi Kuriwaki  
Wakako Matsuo  
Hiroyuki Teranishi  
Satoshi Watanabe  
Yoshiki Ono  
Kenichiro Kurahashi  
Asako Iwahashi  
Yasumasa Yamanaga  
Takeshi Nambara  
Takao Ikai  
Kunihiko Egawa  
Masami Taniguchi  
Kenji Okuma  
Yusuke Hirata  
Takeshi Yamazaki  
Yoshihiro Yamaguchi  
Kohei Miki*

• **Vol. 189 Feature Articles Editor**

*Keisuke Watanabe*

• **Editorial Inquiries**

*Fumitoshi Yoshikawa  
Corporate Productivity Planning &  
Engineering Dept.  
Fax: +81-3-3218-2465*

**Mitsubishi Electric Advance** is published on line quarterly (in March, June, September, and December) by Mitsubishi Electric Corporation. Copyright © 2025 by Mitsubishi Electric Corporation; all rights reserved. Printed in Japan.

The company names and product names described herein are the trademarks or registered trademarks of the respective companies.

**CONTENTS**

**Technical Reports**

<b>Security and Privacy Technologies for Safe and Secure Artificial Intelligence .....</b>	<b>1</b>
<i>by Yoshihiro Koseki, Tsunato Nakai</i>	
<b>Digitization of Palpation for Remote Inspection .....</b>	<b>6</b>
<i>by Kotaro Fukui, Shoichi Kobayashi</i>	
<b>A Low-Code Development Method for Manufacturing Facilities ..</b>	<b>11</b>
<i>by Takaaki Abe, Satoshi Noguchi</i>	
<b>Skill Assessment AI Technology for Expert Skill Succession .....</b>	<b>15</b>
<i>by Yuichi Sasaki, Takafumi Koike</i>	
<b>Case Studies of Extending Open-Source Database Software PostgreSQL and Contributing to Open-Source Communities .....</b>	<b>20</b>
<i>by Masashi Tatedoko, Shingo Oidate</i>	

**Precis**

Our aim in the Mitsubishi Electric Group is to be a “Circular Digital-Engineering” company, and we are working to solve increasingly severe and diverse social problems through innovation based on advanced digital technology. In this way, we hope to contribute to the realization of a dynamic, yet relaxed and fulfilling society. For this special feature, we will present specific initiatives in the area of advanced digital technology across two issues: a first part (the preceding issue, ADVANCE Vol. 188, December 2024) and a second part (this issue, Vol. 189, March 2025).