

# Special Issue

## Technological Advances in Science, Medicine, and Engineering 2024

### Message from the Guest Editors

This Special Issue showcases papers emerging from the 28th Technological Advances in Science, Medicine, and Engineering (TASME) conference (<https://tasmeconference.org/>), that focus on technological advances in science, medicine, and engineering. The conference took place from July 6 to July 7 at the University of Toronto's Scarborough campus. The subject areas include, but are not limited to, the following:

- Civil and environmental engineering;
- Electrical and mechanical engineering;
- Materials and energy technology;
- Cancer and nervous systems;
- Immunity, lunch infection, and COVID;
- Internal medicine, mental health, public health, and healthcare system;
- Life and environmental sciences;
- Physical sciences, tech innovation, and IoT applications;
- Medical technology, biotech and pharma, and drug design;
- Information technology (cybersecurity, data science, and E-learning)

In addition, we also collect original research and review papers which are not from the conference on the above-mentioned topics.

### Guest Editors

Prof. Dr. Xavier Fernando

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Dr. Nades Palaniyar

Program in Translational Medicine, PGCRL, The Hospital for Sick Children, and Dept. of Lab Medicine and Pathobiology, and the Institute of Medical Sciences, Faculty of Medicine, University of Toronto, Toronto, ON, Canada

### Deadline for manuscript submissions

closed (20 June 2025)



## Technologies

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## About the Journal

### Message from the Editor-in-Chief

*Technologies*, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

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### Editor-in-Chief

Prof. Dr. Manoj Gupta

Department of Mechanical Engineering, National University of  
Singapore, Singapore 117576, Singapore

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manuscripts are peer-reviewed and a first decision is  
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days (median values for papers published in this journal in  
the first half of 2025).