## Special Issue

## Application of Echocardiography

## Message from the Guest Editor

This issue of Applied Sciences is devoted to advances in echocardiography. As broad as this subject seems, technical advances have emerged from a collaboration between cardiologists, anesthesiolgists and cardiovascular surgeons over the years, and has resulted in the production of the second most common test ordered in cardiology. This issue seeks to publish manuscripts in the following areas:

- Basic diagnostics with transthoracic and transesophageal imaging;
- Electrophysiology;
- Perioperative echocardiography;
- Catheter-based interventions;
- Point-of-care ultrasound (POCUS), including critical care:
- Artificial intelligence for training facilitation, auto measurements and disease recognition;

Areas of additional interest for this Special Issue include the following:

- Soft electronics and wearable ultrasound patches for ambulatory monitoring;
- The era of robotic mitral valve surgery and mitral clips;
- The use of pixel density, such as ImageJ, to obtain independent tissue characterizations;
- The importance of a stable platform for catheterbased imaging.

### **Guest Editor**

Prof. Dr. Leon Frazin

Department of Medicine, University of Illinois, Chicago, IL 60612, USA

## Deadline for manuscript submissions

20 August 2025



# Applied Sciences

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applisci@mdpi.com

mdpi.com/journal/applsci





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## **About the Journal**

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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