

Special Issue

Artificial Intelligence in Cardiac Surgery and Heart Transplantation

Message from the Guest Editors

This Special Issue explores AI's transformative role in cardiac surgery and heart transplantation, showcasing innovations in diagnostics, surgical planning, and postoperative care. Topics include machine learning for predicting outcomes, optimizing transplant selection, and AI-enhanced imaging for intraoperative guidance. Predictive analytics for organ allocation, graft survival, and rejection risk are also highlighted. The issue examines AI-assisted robotics, NLP for clinical data mining, and ethical/regulatory challenges in high-stakes cardiac care. By uniting surgeons, data scientists, and researchers, it bridges innovation with clinical practice, offering a roadmap for AI integration to enhance precision medicine and patient outcomes.

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About the Journal

Message from the Editor-in-Chief

The primary goal of the *Journal of Cardiovascular Development and Disease* (JCDD, ISSN 2308-3425) is to provide cardiovascular scientists a platform to publish their work in a quick and efficient way. Topics can range from studies designed to decipher the events underlying early heart development to studies focusing on the origins of congenital and acquired heart disease. Papers submitted to JCDD undergo a fast, yet thorough, peer-review process. In this process, we will apply strict ethical policies and standards. JCDD guarantees fast dissemination of results to a large scientific audience

Editor-in-Chief

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