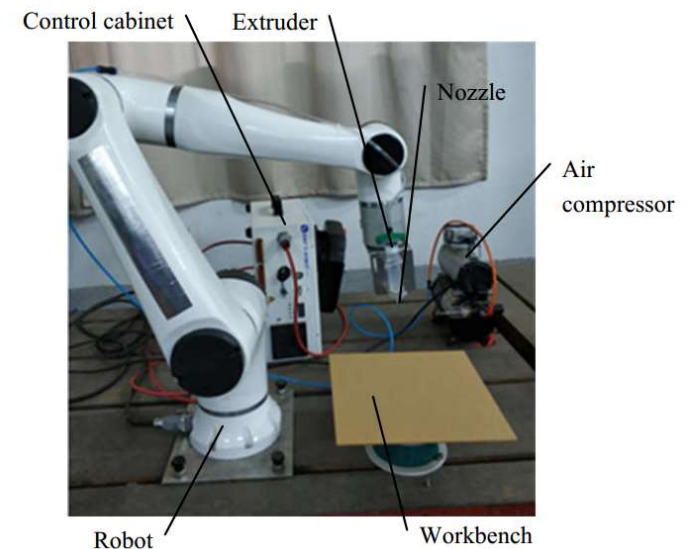


A Fast Calibration Method for 3D Printing Robot Based on Distance Constraint

Kaiwei Ma, Tianzheng Zhao, Lan Li, Orelaja Oluseyi Adewale,
Dan Xia, and Xingsong Wang
School of Mechanical Engineering, Southeast University, China

- This article completes the overall construction of the robotic 3D printing system.
- The fast calibration method is achieved by the coordinate system transformation model.
- A 3D printing experiment for repair of bone defect is carried out to verify the method.
- The 3D scanning and contrast are used to test the printing effect.



3D printing system with a six degrees of freedom robot