Abstract
This paper aims at developing path traversal algorithm based on the co-ordinates of the axis for Firebird V robot. This algorithm does not require physical indications like markers, white lines and black lines for its path. These robots can be used in surveying pipes, small areas. Robot traces the path drawn by the user using GUI controller application. The Bluetooth module is used to establish communication between robot and computer.

References

- Enric Galeran, Marc carrears "A survey on coverage path planning for robotics" &apos;Elsevier&apos;, 20th September 2013.
- Journal by Kavitha Tyagarajan and Coimbatore Ganeshsankar Balaji, &quot;Traversal algorithm for complete coverage (TRACC)&quot; on 15-12-2015.
- Reference book on Data Structure by Mark Allen Weiss, &quot;Data Structure and Algorithm Analysis in C++&quot; third edition.

Index Terms

Computer Science     Algorithm

Keywords

Bluetooth Module     Traversal     Firebird V Robot     Gui