Abstract

This paper proposes a control architecture for driving a panel Braille, that works as an aid in the reading of information by visually impaired people and also for applications for teaching Braille. To validate a prototype it was developed containing the control algorithm, which uses two techniques together: the conversion of characters in dot matrix in software and hardware multiplexing signals, and both techniques are scalable to jointly control the display of Braille characters on the panel. The panel allows the rewriting and updating size to provide new
operating parameters.

References

- I. B. Constant. (2014) "Vocabulary Braille Basic Concept". In:
- S. Lee; H. S. Hong; W. J. Jeon (2012) "Universal Acess to PDA by Modular I/O Design;
- AFB, American Foundation for the Blind. "Braille Displays". In:
control system. In Advances in Electrical Engineering (ICAEE), 2013 International Conference on (pp. 291-295). IEEE.
- ATMEL Corporation (Nasdaq: ATMEL) “Microcontrollers manufacturing”; In: