Abstract—This study presents a voice-controlled movable electrical heating radiator. The functions are (1) button or voice controlled the radiator by smartphone APP; (2) heat radiation power control, moving control and timing control; and (3) feedback artificial synthesis voice for instruction, temperature feedback, and ultrasonic sensing for anti-collision. The results show the successful rates are over 90% for most of the cases. A better performance and lower cost voice-controlled movable electrical heating radiator has been implemented. The convenience of the radiator elevates the quality of human living life.

Keyword—voice controlled, heating radiator, movable devices, cloud, bluetooth.


*Faculty of Electronic Information Engineering, Guangdong University of Petrochemical Technology, MaoMing City, Guangdong, China
**Faculty of Automation, Guangdong University of Petrochemical Technology, MaoMing City, Guangdong, China
***Faculty of Computer Science, Guangdong University of Petrochemical Technology, MaoMing City, Guangdong, China

*franklinlu888@outlook.com

YuXin Li is currently a student with Faculty of Electronic information engineering, Guangdong University of Petrochemical Technology, Guangdong, China.
JinPeng Chen is the vice Dean of Faculty of Automation, Guangdong University of Petrochemical Technology, Guangdong, China.
Bing-Yuh Lu is currently a professor with Faculty of Automation, Guangdong University of Petrochemical Technology, Guangdong, China.
Xin Li is currently a professor with Faculty of Computer Science, Guangdong University of Petrochemical Technology, Guangdong, China.
CanJie Yao is a student with Faculty of Automation, Guangdong University of Petrochemical Technology, Guangdong, China.
LinShu Zheng is a student with Faculty of Automation, Guangdong University of Petrochemical Technology, Guangdong, China.
Xin Bai is a student with Faculty of Electronic information engineering, Guangdong University of Petrochemical Technology, Guangdong, China.
WanQin Jiang is a student with Faculty of Automation, Guangdong University of Petrochemical Technology, Guangdong, China.