Computer Assisted Diagnosis of Automatic Signalling Installations with Blinking Red Lights

Spunei Elisabeta, Piroi Ion, Muscai Cristian
Electrical Engineering and Informatics Department
Eftimie Murgu University of Reșița, UEMR
Reșița, Romania
e.spunei@uem.ro, i.piroi@uem.ro
Piroi Florina
Institute of Software Technology and Interactive Systems
Vienna University of Technology
Vienna, Austria
piroi@ifs.tuwien.ac.at

Abstract—This work presents a modern method for the diagnosis of railroad level crossing automatic signalling installations. The method proposed here is based on diagnosis diagrams designed by the authors. The diagrams cover all failure types that can occur for these types of installations. The diagrams were then used to create a diagnosis software package, which can rapidly and securely determine the failure cause. The computer assisted diagnosis reduces train traffic delays and fewer train traffic redirects are needed, diagnosis errors are practically eliminated. The software can run on any Windows or Android based computing systems.

Keywords—diagnosis, diagrams, software, automatic signalling installations, maintenance staff.

REFERENCES