

## NEW MODELS OF MAINTENANCE OF ROTATING MACHINES

Stevan Petrović<sup>1</sup>, Živoslav Adamović<sup>1</sup>, Veljko Vuković<sup>1</sup>, Branislav Gavrilović<sup>1</sup>, Svetozar Bugarin<sup>2</sup>, Goran Topić<sup>3</sup>

<sup>1</sup>European University Brčko distrikt, Bijeljinska bb, 76100 Brčko, Bosnia and Herzegovina,

[petrovic.stevan.73@gmail.com](mailto:petrovic.stevan.73@gmail.com)

<sup>2</sup>Railway Vehicles Factory "Želvoz", Miloša Velikog 39, 11300 Smederevo, Serbia

<sup>3</sup>Elnos Group HQ, Petra Kočića 49, 78 000 Banja Luka, Bosnia and Herzegovina

### ABSTRACT

The paper provides an overview of methods for representing knowledge and knowledge frames. The hierarchical organization of knowledge as well as the apparatus of logical reasoning are defined. An expert evaluation system has been developed along with input-output composition models of the expert system for the maintenance of rotating machines.

**Keywords:** Knowledge, expert system, knowledge frames, reasoning, knowledge bases.