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THE FUZZY LOGIC APPLICATION TO THE MANAGEMENT OF THE MOTOR VEHICLE ELEMENTS PREVENTIVE ON-CONDITION BASED MAINTENANCE PROCESS

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The FUZZY logic application to the management of the motor vehicle elements preventive on-condition based maintenance process under conditions of uncertainty and subjectivity was proposed. The maintenance actions decisions are carried out on the base of the EKTRAN model output characteristics and the developed approximate reasoning algorithm.

Key words: fuzzy logic, maintenance process, condition parameter, motor vehicle elements.

PRIMENA FUZZY LOGIKE U UPRAVLJANJU PROCESOM PREVEN- TIVNOG ODRŽAVANJA ELEMENATA MOTORNOG VOZILA PREMA STANJU

Predložena je primena FUZZY logike za upravljanje procesom preventivnog održavanja elemenata motornog vozila prema stanju u uslovima neizvesnosti i subjektivnosti. Odluke o sprovođenju postupaka održavanja donose se na bazi izlaznih karakteristika modela EKTRAN i razvojenog algoritma aproksimativnog rezonovanja.

Ključne reči: fuzzy logika, proces održavanja, parametar stanja, elementi motornog vozila.