



Contents

REVIEW PAPER

- Kovač, P., Rodić, D., Pucovski, V., Mankova, I., Savkovic, B., Gostimirović, M.**
A REVIEW OF ARTIFICIAL INTELIGENCE APPROACHES APPLIED IN
INTELLIGENT PROCESSES 1

ORIGINAL SCIENTIFIC PAPER

- Gostimirović, M., Kovač, P., Sekulić, M., Savković, B.**
A STUDY OF DISCHARGE PULSE ENERGY IN
ELECTRICAL DISCHARGE MACHINING 7
- Peterka, J., Kováč, M., Zvončan, M.**
INFLUENCE OF TOOL BALANCING ON MACHINED SURFACE QUALITY IN HIGH
SPEED MACHINING 11
- Slătineanu, L., Coteață, M., Radovanovic, M., Potârniche, Ș., Gherman, L., Beșliu (Grigoraș), I.**
SURFACE ROUGHNESS OF GLASS PARTS WHEN ENGRAVING
WITH ABRASIVE AIR JET 15
- Sekulić, S.**
FRICTIONAL WORK IN ORTHOGONAL CUTTING - RELATIONS OF FRICTIONAL
WORK BETWEEN THE CONTACT SURFACES OF CUTTING TOOL AND CHIP AND
MACHINED SURFACES 19
- Pucovsky, V., Kovac, P., Tolnay, M., Savkovic, B., Rodic, D.**
THE ADEQUATE TYPE OF FUNCTION FOR MODELING TOOL LIFE SELECTION BY
THE USE OF GENETIC ALGORITHMS 25
- Lazarević, D., Madić, M., Janković, P., Lazarević, A.**
SURFACE ROUGHNESS MINIMIZATION OF POLYAMIDE PA-6 TURNING BY
TAGUCHI METHOD 29
- Novák-Marcinčin, J., Janák, M., Nováková-Marcinčinová, E.**
DEVELOPMENT OF SPECIAL SOFTWARE FOR COMPUTER AIDED
SELECTION OF OPTIMAL CNC MILLING STRATEGY 33
- Mladenović, C., Tabaković, S., Zeljković, M.**
KINEMATIC ANALYSIS OF MACHINE TOOL BASED ON O-X GLIDE
HYBRID MECHANISM USING A SYMBOLIC VIRTUAL MODEL 37
- Hadzistevic, M., Strbac, B., Budak, I., Vukelic, Dj., Hodolic, J.**
ANALYSIS OF THE OPERATOR INFLUENCE ON THE ACCURACY OF THE
CALIBRATION STYLI RESULTS IN CMM 41

Milošević, M., Todić, V., Lukić, D. INTERNET-BASED COLLABORATIVE SYSTEM FOR PROCESS PLANNING	45
Vilotić, M., Kakaš, D., Miletić, A., Kovačević, L., Terek, P. INFLUENCE OF FRICTION COEFFICIENT ON WORKPIECE ROUGHNESS IN RING UPSETTING PROCESS	49
Agarski, B., Budak, I., Puskar, T., Vukelic, Dj., Markovic, D., Hadzistevic, M., Hodolic, J. MULTI-CRITERIA ASSESSMENT OF ENVIRONMENTAL AND OCCUPATIONAL SAFETY MEASURES IN DENTAL PROSTHETICS LABORATORIES	53
Bosák, M., Schwarczová, H. MODEL FOR EVALUATION OF THE ENGINEERING PROJECTS ENVIRONMENTAL QUALITY	57
Majerník, M., Schwarczová, H., Tarča, A. RISK MANAGEMENT AS A TOOL RAISING OF ENVIRONMENTAL QUALITY PROCESS	61
Hajduová, Z., Piřa, J., Hodolič, J., Andrejkovič, M. UTILIZATION OF METHODS AND THEIR FINAL ELEMENTS IN THE AUTOMOTIVE	65
PRELIMINARY NOTE	
Slamka, J., Tolnay, M., Jedinák, M. LAYOUT DESIGN OF VACUUM EFECTOR HEAD FOR MANIPULATION WITH FLOPPY MATERIALS	69
Šebo, D., Petriková, A., Šebo, J. SUPPLY OPTIMIZATION IN THE CASE OF DETERMINISTIC UNEVEN CONSUPTION	73
Pauliková, A. Schwarczová, H. QUALITY ASSESSMENT OF CUTTING FLUIDS WITH REGARD TO FACTORS OF INDOOR WORKING ENVIRONMENT	77
INSTRUCTION FOR CONTRIBUTORS	81