



## Contents

### REVIEW PAPER

**Gostimirović, M., Sekulić, M., Rodić, D.**

THERMAL STUDY OF THE CREEP-FEED GRINDING – A REVIEW ..... 1

### ORIGINAL SCIENTIFIC PAPER

**Simonović, M., Džunić, D., Mitrović, S.**

TESTING OF WEAR IN CONTACT WITH STRENX 700 AND AUTOFRETTED STEEL ..... 11

**Gupta, V., Mehra V., Khanna, P.**

MATHEMATICAL MODELLING TO PREDICT BEAD GEOMETRY AND SHAPE  
RELATIONSHIPS IN MIG WELDING OF STAINLESS STEEL 202 ..... 15

**Raji, A.N., Kuku, O.R., Ojo, S.S., Hunvu, M.S.**

DESIGN DEVELOPMENT AND PERFORMANCE EVALUATION OF WASTE PLASTIC  
SHREDDER ..... 22

**Omoniyi, T.E., Onilude, M.A.**

PRODUCTION ESTIMATION AND DELAY ANALYSES OF A LOCALLY FABRICATED  
BAND SAW ..... 29

**Erdei L., Illés. B., Tamás, P.**

ANALYSIS OF TRAIN CONTROL SYSTEM STANDARDIZATION ..... 35

**Štrbac, B., Biševac, S., Delić, M., Ačko, B., Havrljan, S., Hažistević, M.**

COMPETENCE ASSESSMENT OF CMMs FOR DIFFERENT MEASURING TASKS ..... 39

**Drávucz, D., Skapinyecz, R., Bányai, T., Illés, B., Bányainé, T. Á., Tamás, P.**

DESCRIPTION OF AN INNOVATIVE METHOD FOR THE INTEGRATION OF ROBOT  
CELLS WITH AUTOMATED MATERIALS HANDLING SYSTEMS ..... 43

**Bányai, T., Boros, P.**

SENSITIVITY ANALYSIS OF SILVER-MEAL ALGORITHM IN THE CASE OF JUST-IN-  
SEQUENCE SUPPLY RELATED BATCHES ..... 47

**Oloro, O.J., Odu, G., Akpotu, D.**

COMPARATIVE STUDY OF PRODUCTIVITY OF BOTTOM AND EDGE WATER  
DRIVE RESERVOIRS ..... 53

**András-Tövissi, B., Kajtár, L., Nyers, J.**

THE IMPACT OF DRAUGHT ON WORK PERFORMANCE IN SPACES WITH CEILING  
HEATING ..... 58

<b>Bányai, Á., Efimenko, D., Illés B., Bányai T., Tamás, P.</b>	
MULTI-CHANNEL SUPPLY CHAIN OPTIMISATION IN CYBER-PHYSICAL ENVIRONMENT UNDER QUANTITY DISCOUNTS .....	65
<b>Tóth, L., Akylbek, U., Cservesnák, Á., Bányai, T., Illés, B., Tamás, P.</b>	
PRODUCT IDENTIFICATION PROBLEMS USING INDUSTRY 4.0 TECHNOLOGIES .....	71

## **PRELIMINARY NOTE**

<b>Matyi, H., Veres, P., Bányai, T., Demin, V., Tamás, P.</b>	
DIGITALIZATION IN INDUSTRY 4.0: THE ROLE OF MOBILE DEVICES .....	75
<b>Tamás, P.</b>	
SIMULATION INVESTIGATIONAL METHOD FOR COLLECTION AND DISTRIBUTION SYSTEMS .....	79

## **PUBLICATION ETHICS AND PUBLICATION MALPRACTICE STATEMENT .....** 83

## **INSTRUCTION FOR CONTRIBUTORS .....** 85