

CONTENTS

Vol. 15, no. 3(43), November, 2014

Authors Presentation	130
Daniel BĂNCILĂ, Constantin BUZATU	
Minimizing Makespan in a Flow Shop Scheduling Problem	134
Sorin Adrian BARABAȘ, Adriana FLORESCU	
Influence of Geometry of Hollow Rollers on the Contact Stress to the Large Bearings	138
Horațiu BULEA	
Dimensional Variation of Polyurethane Foam Panel on Circular Cutting with Abrasive Water Jet Technology	142
Nicolae Tudor CÂNDEA, Virgil Nicolae CÂNDEA	
Research on Metallic Lance Thermal Cutting of Building Materials Cercetări privind tăierea termică cu lancea metalică a materialelor de construcții	148
Catrina CHIVU	
Pneumatic Driving in Material Handling Systems	155
Cătălin-Julian CHIVU	
Simulation of Double Acting Pneumatic Cylinder Control	160
Adrian DĂNILĂ, Ioana Mădălina PETRE	
A Nonlinear, Inertial-Type Approximation of the Pneumatic Artificial Muscle Model. Experimental Determination of the Equivalent Frequency Transfer Function	165
Georgi DINEV, Petar ANGELOV	
Computer Aided Design and Production Analysis of Vane Pump	170
Valentin DIȚU	
The Wear and the Radial/Axial Beat at the Conic Countersink Reamers and Countersink Reamers with Guide Pilot Uzura și bătaia radială/axială la adâncitoare conice și adâncitoare cu cep de ghidare	175
Adriana FLORESCU, Sorin Adrian BARABAȘ	
Techniques Regarding the Performance Evaluation of Logistic Systems	180

Valerii KYRYLOVYCH, Petro MELNYCHUK, Lubomir DIMITROV, Roman MORGUNOV, Aleksandr PIDTYCHENKO	
Automated Research of Trajectory Problems in Industrial Robotics by the Criterion of Power Consumption	184
Zoltan MARKOS	
Study of the Mechanism of Diffusion in Siliconized Brass Studiul mecanismului de difuzie la alamele silicizate	191
Simona MATEI, Aurel CRIȘAN	
Thermal Resistant Composite Materials in Use Today – A Review	195
Ioan MILOȘAN	
Study to Determine the Gaseous Emissions from the Combustion Gases	200
Cristian PISARCIUC	
A Review of Unconventional Procedures for Manufacturing Tool Electrodes Used in EDM	205
Luciana Cristiana STAN	
Efficient Management in Enterprises by Sustainable Development of Competences	209
Maria STOICĂNESCU	
Studies Concerning the Possibility of Hardening through Thermic Isothermal Treatment of the Casting Alloys of Aluminum	215
Ana-Maria Adina ȘUTEU (BĂNCILĂ), Constantin BUZATU	
Participatory Design Methods in the Development of Products and Environments for Elderly Users with Physical Impairments	219

All papers submitted for publication to the **RECENT**[®] journal undergo a peer-review procedure.

The objective of peer review is to verify and endorse that all papers accepted for publication are of adequate scientific level and include original and significant contributions in their respective field.

The **RECENT**[®] journal provides *Expert Peer-Review*, including by members of the Scientific Panel as well as *Editorial Board Peer-Review* by the members of the Editorial Board. All members of the Scientific Panel and of the Technical Panel have PhDs, are members of the academic community and experts in their respective fields of activity.

The received papers undergo initial *Editorial Board Peer-Review* by the members of the Technical Panel of the **RECENT**[®] journal, conducted mainly by the scientific secretaries. Evaluation concerns with priority whether the paper matches the fields covered by the journal and meets its standards.

Complete scientific evaluation procedure is available at <http://www.recentonline.ro/PeerRew.htm>

Electronic version of **RECENT**[®] journal, ISSN 2065-4529, is available at www.recentonline.ro