

**F – SERVOTEHNICĂ, HIDRAULICĂ DIGITALĂ, MECATRONICĂ, ELECTRONICĂ,  
INFORMATICĂ, SENZORICĂ**

**F – SERVO TECHNIQUES, DIGITAL HYDRAULICS, MECHATRONICS, ELECTRONICS,  
INFORMATICS, SENSORICS**

- **Considerations about digital PID control of electro-hydraulics equipment**

Iulian Duțu, Radu Rădoi, Corneliu Cristescu

*In: Hidraulica no. 3-4/ 2012, pp. 34-38*

- **A new model of pneumatic transducer used in the drying stage of the ceramic products obtaining**

Murad Erol, Dumitrescu Catalin, Haraga Georgeta, Dumitrescu Liliana

*In: Hidraulica no. 1/ 2013, pp. 65-69*

- **Data acquisition system for static and dynamic testing of pneumatic axes**

Radu Radoi, Iulian Dutu, Gabriela Matache

*In: Hidraulica no. 4/ 2013, pp. 18-22*

- **Electrohydraulic proportional servo valves – Electrohydraulic servo distributors**

Victor Balasoiu, Ilare Bordeasu

*In: Hidraulica no. 4/ 2013, pp. 37-51*

- **Clicks counting methods for a scope knob**

Andrei Drumea, Robert Dobre

*In: Hidraulica no. 4/ 2013, pp. 79-84*

- **Automation of a pumping station for low power applications**

Laurentiu Alboteanu, Gheorghe Manolea, Alexandru Novac

*In: Hidraulica no. 1/ 2014, pp. 58-64*

- **Electronic screening**

Justinian Laviniu Cîrstea, Dorel Stoica

*In: Hidraulica no. 3/ 2014, pp. 19-24*

- **Mechatronic drive system for cleaning machine of photovoltaic panels**

Radu Radoi, Marian Blejan, Ioana Ilie

*In: Hidraulica no. 4/ 2014, pp. 22-26*

- **Wireless Remote Control of Electro-Pneumatic Positioning System**

Ryszard Dindorf, Piotr Wos

*In: Hidraulica no. 2/ 2015, pp. 7-13*

- **Laboratory Experiments Made on Corrugated Metallic Capsules, for Selecting Optimal Sensitive Elements in Pressure Transducers Used in Modern Mechatronics Systems**  
Iulian Sorin Munteanu, Anghel Constantin, Petre Munteanu  
*In: Hidraulica no. 2/2015, pp. 48-52*
  
- **Research on Cam Channels for Zoom Riflescopes**  
Dana Granciu  
*In: Hidraulica no. 4/2015, pp. 40-45*
  
- **Multiplexed Delay Compensation and Circular Buffer Method for moving Average Filtering of Signal Acquired from Tactile Sensors in a Mechatronics System for Walking Analysis**  
Anghel Constantin, Constantine David  
*In: Hidraulica no. 4/2015, pp. 55-61*
  
- **Using Load Sensing Control Systems to Increase Energy Efficiency of Hydrostatic Transmissions**  
Corneliu Cristescu, Lavinia Madalina Micu, Catalin Dumitrescu, Petrica Krevey  
*In: Hidraulica no. 4/2015, pp. 71-77*
  
- **Computerized System for a Steering Box Testing Stand with Automatic Data Record and Report Issuing**  
Radu Radoi, Cătălin Dumitrescu, Iulian Duțu  
*In: Hidraulica no. 3/2016, pp. 29-33*
  
- **Mechatronic Systems Embedded into the Electrohydraulic Control Equipment for Industrial Applications**  
Radu Rădoi, Alexandru Hristea, Bogdan Tudor  
*In: Hidraulica no. 1/2017, pp. 55-60*
  
- **Maintaining Position of Servo Cylinders by Means of Digital Hydraulics**  
Ioan Pavel, Bogdan Tudor, Mihai Alexandru Hristea, Ana-Maria Popescu  
*In: Hidraulica no. 2/2017, pp. 62-67*
  
- **Modeling an Automatic Processing Station Using Fluidsim Software**  
Ionel Laurentiu Alboteanu  
*In: Hidraulica no. 3/2017, pp. 27-30*
  
- **Technical Solutions for Digital Hydraulic Cylinders and Test Methods**  
Ioan Pavel, Radu Iulian Rădoi, Alexandru-Polifron Chiriță, Mihai-Alexandru Hristea, Bogdan Alexandru Tudor  
*In: Hidraulica no. 3/2017, pp. 41-49*
  
- **Simulation of the Flow Processes in the Waste Water Treatment Plant**  
Mariana Panaitescu, Fanel-Viorel Panaitescu  
*In: Hidraulica no. 3/2017, pp. 50-61*
  
- **Distributed Hardware and Software Architecture for Monitoring and Control of Hydraulic Drives**  
Ioana Ilie, Marian Blejan  
*In: Hidraulica no. 4/2017, pp. 46-50*

- **Mobile Equipment for Testing the Power Steering of Cars**

Alexandru Hristea, Radu Radoi, Bogdan Tudor, Ion Balan

*In: Hidraulica no. 4/ 2017, pp. 84-88*

- **Electronic Control Module for Test Stand on the Production Line of Hydraulic Cylinders and Rotary Hydraulic Motors**

Radu Rădoi, Alexandru Hristea, Bogdan Tudor, Mihai Alexe

*In: Hidraulica no. 4/ 2017, pp. 105-108*

- **Aspects regarding the Use of Digital Hydraulics in P.E.T. Waste Baling Presses**

Iulian-Claudiu Duțu, Sorin-Ștefan Biriș, Edmond Maican

*In: Hidraulica no. 4/ 2017, pp. 109-114*

- **Electronic Module for Data Acquisition and Transmitting for Portable Power Steering Test Equipment**

Alexandru Hristea, Radu Rădoi, Bogdan Tudor, Ion Bălan

*In: Hidraulica no. 4/ 2017, pp. 115-119*

- **Fault Tree Analysis Used in Offshore Industry**

Mariana Panaitescu, Fănel-Viorel Panaitescu, Ionuț Voicu, Laurențiu-George Dumitrescu

*In: Hidraulica no. 1/ 2018, pp. 42-48*

- **From Human-Environment Interaction to Environmental Informatics (I): Theoretical and Practical Implications of Knowledge-Based Computing**

Bogdan Cioruța, Mirela Coman, Alin-Andrei Cioruța, Alexandru Luran

*In: Hidraulica no. 1/ 2018, pp. 71-82*

- **Algorithm for Optimal Design of Pressurized Toroidal LPG Fuel Tanks with Constant Section Described by Imposed Algebraic Plane Curves**

Ștefan Țălu, Mihai Țălu

*In: Hidraulica no. 2/ 2018, pp. 14-21*

- **From Human-Environment Interaction to Environmental Informatics (II): the Sustainability evolution as requirement of Knowledge-based Society**

Bogdan Cioruța, Mirela Coman, Alexandru Luran

*In: Hidraulica no. 2/ 2018, pp. 33-42*

- **Analysis of Intelligent Control and Interface in Pressurized Liquid Injection Systems for Competitive Technical Solutions**

Iosif Ferenți, Dan Opruța, Doru-Laurean Băldean

*In: Hidraulica no. 2/ 2018, pp. 43-48*

- **The Optimal CAD Design of a 3D Hexagonal Toroid with Regular Hexagonal Cross-Section Used in Manufacturing of LPG Storage Tanks**

Mihai Țălu, Ștefan Țălu

*In: Hidraulica no. 2/ 2018, pp. 49-56*

- **Studying the Influence of River Works on River Flow Regime with 1-D Hydraulic Modelling**

Marie-Alice Ghițescu, Albert Titus Constatin

*In: Hidraulica no. 3/2018, pp. 33-38*

- **Water Flow Transition on a Hydropower Virtually Developed Sector of Bârzava River in the Town of Reșița**

Alina-Ioana Popescu-Bușan, Gheorghe Lazăr, Albert Titus Constantin, Șerban-Vlad Nicoară

*In: Hidraulica no. 3/2018, pp. 46-55*

- **Fluid Flow Particularities within Hydraulic Working Circuit**

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*In: Hidraulica no. 3/2018, pp. 62-67*

- **A Method to Address the Fixing of Sealing Deficiencies at the “Ostrovl Mic” Left Bank, “Râul Mare – Downstream” Water Development**

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*In: Hidraulica no. 3/2018, pp. 74-83*

- **Simulation of an Electro-Hydraulic System for a P.E.T. Waste Baling Press**

Iulian-Claudiu Duțu, Edmond Maican, Sorin-Ștefan Biriș, Mihaela-Florentina Duțu, Mariana-Gabriela Munteanu

*In: Hidraulica no. 4/2018, pp. 06-11*

- **The 3D Geometry Reconstruction of a Scaled Axial Blade by Photogrammetry**

Dorian Nedelcu, Sorin-Laurențiu Bogdan, Ioan Pădurean

*In: Hidraulica no. 4/2018, pp. 12-21*

- **Approaching Mean Air Temperature-Rainfall Models by Means of Genetic Programming under Climatic Change Scenarios**

Gonzalo Daniel Mejia Santana, Maritza Liliana Arganis Juarez, Margarita Preciado Jiménez, Nikte Ocampo Guerrero, Jeanette Zambrano Nájera, Eliseo Carrizosa Elizondo

*In: Hidraulica no. 4/2018, pp. 22-33*

- **Estimation of Water Infiltration at a Given Embankment Dam with Sealing Deficiencies by a 3D Numerical Model**

Albert Titus Constantin, Gheorghe Lazăr, Șerban-Vlad Nicoară

*In: Hidraulica no. 4/2018, pp. 39-47*

- **Technological and Constructive Considerations on the Realization of Components and Parts Using 3D Printing FDM-Type Technology**

Mircea Dorin Vasilescu

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- **Comparative Study of a 1D and 2D Numerical Analysis Modelling a Water Flow at a River Confluence under Accidental High Waters**

Șerban-Vlad Nicoară, Gheorghe Lazăr, Albert Titus Constantin

*In: Hidraulica no. 4/2018, pp. 90-97*