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8. . . . . ( . . . . . , . . . . . ).
9. . . . . -
10. . . . . ( . . . . . , . . . . . , . . . . . , . . . . . ).
11. Approximate method in analysis of mechatronic system modelled by hypergraphs.  
**Buchacz A.** (Silesian University of Technology, Gliwice, Poland).
12. . . . . ( . . . . . , . . . . . , . . . . . , . . . . . ).
13. . . . . ( . . . . . , . . . . . , . . . . . , . . . . . ).
14. . . . . ( . . . . . , . . . . . ).
15. Bearing surfaces with sapphire for total hip-joint replacement.  
**Turmanidze R.S.** (GTU, Tbilisi, Georgia).
16. Surface roughness at abrasive jet machining.  
**Potârniche S., Sl tineanu L., Gherman L.A., Grigoras (Besliu) I., Nistoroschi G.** (“Gheorghhe Asachi” Technical University of Iasi, University “Stefan cel Mare“ of Suceava, Romaina).
17. Effect of high harmonics on compensation of reactive power in electrical networks.  
**Dr. George Isber** (Tishreen University, Syria).
18. . . . . ( . . . . . , . . . . . , . . . . . ).
19. Desing of H-controller for Gas Turbine System.  
**Yahya Abdullah Faraj, Fouad Alwan Saleh, Nihal Dawood Salman** (College of Engineering Al-Mustansiriyah University, Iraq, Baghdad).

20. Wear behaviour of sintered nanomaterials produced by hot isostatic pressing (HIP).  
**Sayah Tahar, Hamouda Khaled.** (Laboratory of Materials Sciences and Engineering, Faculty of Mechanical Engineering and Process Engineering, Algeria).

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27. . ” . ” . ” . . ( , .  
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44. Influenta parametrilor de lucru asupra parametrilor de calitate la prelucrarea inelelor de rulmenti prin deformare plastic la rece.

**Pruteanu O., Cr u C., T b caru L.** (Universitatea Tehnic «Gh. Asachi» Ia i).

45. Comparison of ultrasonic and thermographic diagnostic methods applied to polymeric composites.

**Rojek M., Stabik J., Wróbel G.** (Silesian University of Technology, Institute of Engineering Materials and Biomaterials, Division of Metal and Polymer Materials Processing, Gliwice, Poland).

46. Some consideration about dimensioning of the beam spread transducer.

**Rotman I.E., Taranovschi I.L.** (Technical University «Gheorghe Asachi» of Ia i, România).

47. Dimensional designing of the technologies of machining based on similitude of the design and technological graphs.

**Toca A., Rushica I., Stingaci I.** (Technical University of Moldova).

48. Determination of the calculus relation of the cutting tool wear at drilling of the stainless steel 10TiMoNiCr175

**Vlase A., Bl jin O., Vlase B.** (PUB, Bucharest, Romania).

2

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24. . . ( ( ) , . , . -
25. . . ( , . , . ). -

- ).
26. . . ( « », . . , ).
27. Synthesis of passive mechatronics mixed system.  
**Buchacz A., Galeziowski D.** (Silesian University of Technology, Gliwice, Poland).
28. Strategic control of the manufacturing system.  
**Daschievici L., Ghelase D.** (Faculty of Engineerig – Braila, “Dunarea de Jos” Galati University, Romania).
29. The techniques of kinematic analysis at the technical mechanics teaching.  
**Katarina Monkova** (FMT TUKE, with the seat in Presov, Slovakia).
30. Electronic guide for static analysis of truss structure.  
**Katarina Monkova, Anna Smeringaiova** (FMT TUKE, with the seat in Presov, Slovakia).
31. Schmigalla method of triangles for optimization of machine systems.  
**Trzesimiech K., Jeziorowski A., Baier A., Majzner M.** (The Faculty Of Mechanical Engineering, Institute of Engineering Processes Automation and Integrated Manufacturing Systems, Silesian University of Technology, Gliwice, Poland).
32. Fine-sized spiral drills with variable inclination angle of chip grooves-design and manufacture).  
**Turmanidze R.S., Gviniashvili Z.M.** (GTU, Tbilisi, Georgia).
33. Analysis of new designs of rotors with variable geometry parameters and results of their tests.  
**Turmanidze R.S., Mosashvili T.T.** (GTU, Tbilisi, Georgia).

3

**14**

1. ( , . , - ).
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15. . . . .
16. . . . .
17. Genetic algorithms in engineering.  
**Badura A., Baier A., Majzner M.** (The Faculty Of Mechanic Engineering, Institute of Engineering Processes Automation and Integrated Manufacturing Systems, Silesian University of Technology, Gliwice, Poland).
18. Active synthesis of restrained machine drive systems using a comparative method.  
**Dzitkowski T., Dymarek A., Adamczyk J.** (Silesian University of Technology, Gliwice, Poland).
19. Destructive analysis of the project of liquid tank inspection robot.  
**Giergiel M.J., Majkut K.** (AGH University of Science and Technology, Cracow, Poland).
20. Forming taps-design.  
**Lyczko K., Nieszporek T.** (Czestochowa University of Technology, Czestochowa, Poland).
21. The CC-link network in control systems.  
**Piotrowski A.** (Czestochowa University of Technology, Czestochowa, Poland).
22. Creating a series of types of technology on the basis of construction series.  
**Rzyski R.** (Silesian University of Technology, Gliwice, Poland).
23. A systemic approach of the technological innovation process.  
**Taranovschi I.L., Rotman I.E.** (Technical University "Gheorghe Asachi" of Iasi Romania).
24. Structure of the typical automated process of designing hole drilling operation.  
**Zubrzycki J.** (Lublin University of Technology, Lublin, Poland).

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16. . . . . ) .
17. Measurement and graphical representation of roundness for the workpieces with low stiffness, processed by turning.  
**Boca M.** (Tech. Univ. "Gh. Asachi" of Iasi, Romania).
18. Movement of the powdered layer melting front at the centrifugal induction surfacing.  
**Gafo Yu.N., Sosnovsky I. A.** (United Institute of Mechanical Engineering of National Academy of Sciences of Belarus, Minsk, Belarus).
19. Comparison of fem analysis results and gauge measurements in the wall of wagon.  
**Wrobel A., Rzasinski R.** (Silesian University of Technology, Gliwice, Poland).

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**14**

1. CALS- . . . . . « » , . . . . ) .
2. . . . . (INSA-RENNES), , , , " ) .
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22. ...).
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26. ... ( ( ), ... , ... ).
27. ... (
28. Using 16-bit microcontroller for measuring vibration of mechanical object.  
**Borowik B., Kalinski W., Wojnarowski J.** (University of Bielsko-Biala, Silesian University of Technology, Bielsko-Biala, Gliwice, Poland).
29. Generation of the wormwheel surface.  
**Nieszporek T., Lyczko K.** (Czestochowa University of Technology, Czestochowa, Poland).

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1. ...
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 Institute of Technology, University of Rzeszyw, ... , Rzeszyw, ... , Poland).
11. ... ( ... , ... , ... ).
12. ... „ ... ( « ... », ... ( ... ), ...  
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14. ... ( ... , ... , ... ).
15. ... „ ... „ ... ( ... , ... , ... ).
16. ... „ ... „ ... ( ... , ... , ... )  
 », ... , ... , ... ).
17. ... ( ... , ... - ... , ... ).
18. Concept of a simulator for teaching how to drive a car for people with disabilities.  
**Banas W., Dymarek A., Dzitkowski T., Golda G., Herbus K., Kost G., Ociepka P.** (Silesian  
 University of Technology, Gliwice, Poland).
19. Optimization of matrix circuit of Moore FSM.  
**Barkalov A.A., Malcheva R.V., Soldatov K.A.** (University of Zielona Gora, DonNTU, Zielona  
 Gora, Donetsk, Poland, Ukraine).
20. Comparison of exact and approximate methods in analysis of one-dimensional mechanical  
 systems.  
**Buchacz A., Placzek M.** (Institute of Engineering Processes Automation and Integrated Manu-  
 facturing Systems, Faculty of Mechanical Engineering, Silesian University of Technology, Gliwice, Po-  
 land).







24. . . . . « » , . -  
, . . . . ) .
25. ,
26. . . . . ( , . , ) .
27. Experimental determination of perceptible acceleration exerted on the driver of a passenger car.  
**Banas W., Dymarek A., Dzitkowski T., Herbus K., Kost G., Ociepka P., Reclik D.** (Silesian University of Technology, Gliwice, Poland).
28. **Janczarek Marian Marek** ( , , ) .
29. Aspects environnementaux des systemes de refroidissement industriel utilises.  
**Kliaguine G.S., Bogouch K.** (Universite nationale technique de Donetsk, Donetsk, Ukraine).
30. Experimental Investigation of Heat Transfer Enhancement Using Eccentric Converging-Diverging Tube.  
**Rafa A. Al-Baldawi., Mohammed Najm Abdullah.** (College of Engineering Al-Mustansiriyah University, Baghdad, Iraq).

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8. . . ( , , ).  
Internet.
9. . . ( , , ).
10. . . ( , , ).
11. . . ( ( ), , ).
12. Fuzzy concept for modeling educational systems.  
**Jakubowski M.A., Charlak M.** (Lublin University of Technology, Lublin, Poland).
13. Zum verhältnis von Grammatik und fremdsprachenunterricht.  
**Pawlysch W.N., Saizewa M.N.** (DonNTU, Donezk, Ukraine).
14. Chemistry in engineering curriculum.  
**Prisedsky V.V.** (DonNTU, Donetsk, Ukraine).

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