

S.I.. Dr. Eng. Lucian Gal  
Department of A.I.I.T.T.  
Faculty of Engineering

## LIST

scientific works in the field of teaching subjects

### A. Doctoral thesis

Thesis with the title: Contributions regarding the study of the influence of construction errors of numerically controlled lathes on machining precision -,

Scientific Coordinator: Prof. Dr. Eng. A. Dreucean – held in 2005 at the Polytechnic University of Timisoara

### B. Books and chapters in books

The year 1998

1. Carlan (Mortoiu) Doina, But Adrian, Gal Lucian, "Machine tools and mechanical processing - laboratory guide", "Aurel Vlaicu" University Publishing House, Arad, ISBN 973-9361-19-9, 1998

The year 1999

2. But Adrian, Carlan (Mortoiu) Doina, Gal Lucian, "Hydromechanical actuation and control of machines - tools", Editura Mirton, Timisoara, ISBN 973-578-994-9, 1999

The year 2006

3. Mortoiu Doina, Săbăilă Lavinia, Babanatsas Theoharis, Gal Lucian, "AutoCad 2006, Part I - 2D Modeling, Guide for students' use", University Publishing House "Aurel Vlaicu", Arad, 2006, 84 pages, ISBN (10) 973 - 752-092-0

The year 2011

4. Gal Lucian. Actuators and pneumatic and hydraulic controls of machine tools. Laboratory instructor. Electronic format, Arad 2011

6. Gal Lucian - Tolerances and dimensional control. Laboratory instructor. Electronic format, Arad 2011

5. Gal Lucian – Rapid prototyping.. Electronic format, Arad 2013

6. Gal Lucian – Machining by chipping.. Electronic format, Arad 2013

7. Gal Lucian – Machining by chipping.. Electronic format, Arad 2013

C. ISI/BDI indexed works

The year 2014

1. Doina Mortoiu, Lucian Gal, Ioan Emeric Koles, Odeta Belei, Information system for railway transport safety (Information system for railway transport safety), INTERNATIONAL CONFERENCE ON RISK AND SAFETY ENGINEERING from 01st - 08th February 2014 at KOPAONIK, SERBIA, Proceeding RISK And Safety Engineering

[www.rizik.vtsns.edu.rs](http://www.rizik.vtsns.edu.rs)

2. Doina Mortoiu, Lucian Gal, Elena Stela Muncut, Odeta Belei, Study of optimum parameters of thermal plasma cutting, Nonconventional Technologies Review, "Politehnica" Publishing House volume XVIII no. 2/2014 Print: ISSN 2359 – 8646; ISSN-L 2359 – 8646; Online: ISSN 2359 – 8654; ISSN-L 2359 – 8646, page 27-33.

<http://www.revtn.ro/no2-2014.html>

<http://journals.indexcopernicus.com/karta.php?action=masterlist&id=4979>

#### D. Works published in journals and conference volumes with referees (not indexed)

##### - Magazines

##### The year 2009

1. Mortoiu Doina, Gal Lucian, „Quick Prototyping Methods", , Participation in the session of scientific events in Unconventional Technologies organized at the University of Oradea, Nov. 2009, Nonconventional Technologies Review no. 4/2009 (Nonconventional Technologies Review 4/2009), from page 59 to 62 (4 pages). ISSN 1454-3087, Politehnica Publishing House, Timisoara 2009

<http://artn.ro/conference2009/comitee.html>

##### - Papers in conference volumes

##### The year 2005

1. Gal L., Radu I., Carlan Doina, But A., "Using CAM software in complex fitting processing", Quality and reliability of technical systems 10th International Scientific Symposium, page 40-44, Nitra, Slovakia, 2005

##### The year 2006

2. Mortoiu Doina, But Adrian, Gal Lucian, "Geometric processors for the description of revolution pieces", International Research and Education Symposium in Innovation Era, Arad, Nov. 16-18, 2006

3. Radu, I., Gal. L., Cârlan, D., But, A., Diminishing the lengthf kinematic chains in order to increase the processing precision at C.N.C. lathes Quality and reliability of technical systems, Nitra/Slovak Republic, page 161-163, 80-8069-707-8, May 2006

4. Mortoiu Doina, Radu, I., But, A., Gal, L., Geometrical processors for description of revolution pieces Research and Education in Innovation Era, Section 3, Engineering Processes and Technology, Arad, page 386-389, 978-973-752-110-1, Nov. 2006

##### The year 2007

5. But, A., Gal.L., But, E., Radu, I., New design possibilities using alphacam. Quality and reliability of technical systems Nitra/Slovak Republic, page 105-108 978 - 80-8069-890-4. May 2007

#### The year 2008

6. Szabo, O., Gal, L., Radu, I. Measurement of parts of complex geometry using modern measuring equipment Proceedings of the international symposium Research and Education in an Innovation Era, engineering sciences, Arad, page 311-317 2065 -2569 2008 Nov

7. Radu, I., Gal, L., Szabo, O. Coordinate measuring machines and sensors used for high precision measurement Proceedings of the international symposium Research and Education in an Innovation Era, engineering sciences, Arad, page 239 -245 2065-2569 2008 Nov

#### The year 2009

8. Radu, I., Mortoiu Doina, Demian, D., Gal, L., Sobol, D. Filaments, PET fibers (vermiculi) and processes for their production from blankets International Solon of Research, Innovation and Invention, PROINVENT 2009, 7th edition, Cluj Napoca. March 2009

9. But, A., But Eniko, Radu, I., Gal, L., Design and flexibility with keller CAD/CAM

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8. Radu, I., Mortoiu Doina, Demian, D., Gal, L., Sobol, D. Filaments, PET fibers (vermiculi) and processes for their production from blankets International Solon of Research, Innovation and Invention, PROINVENT 2009, 7th edition, Cluj Napoca. March 2009

9. But, A., But Eniko, Radu, I., Gal, L., Design and flexibility with keller CAD/CAM software Quality and reliability of technical systems, Nitra/Slovak Republic, page 157-161

978 - 80-552-0222-8. May 2009

10.Radu I., Mortoiu D., Gal I., Sabaila L., Babanatsas T., Speed prototyping method, The 14-th International Scientific Conference, ISBN 978 80 552 0222-3, page 191-193; 19- 20.05.2009, Nitra, Slovakia

11.Tanasoiu A., Copaci I., Mortoiu D., Gal I., Study of the resistance of metallic helical springs using the finite element method, The 3-th International Conference on Engineering Graphics and Design, ISSN 1221-5872, Technical University of Cluj-Napoca, 2009, pp. 369-373;

12.Tanasoiu A., Copaci I., Mortoiu D., Gal I., Study of the resistance of metallic helical springs using the finite element method, The 3-th International Conference on Engineering Graphics and Design, ISSN 1221-5872, Technical University of Cluj-Napoca, 2009, pp. 369-373;

The year 2010

13Radu, I., Gal, L., Sobol, D., Autonomous procedure and device for internal pipes control and rehabilitation Innovation and technological transfer "INVENTICA 2010", Iasi. June 2010

14. Doina Mortoiu, Lucian Gal, Ioan Radu, Gheorghe Sima, Vasile Patrusel, Marius Mogosan, Modernization of a Machine Tool, University Aurel Vlaicu of Arad; International Symposium Research and Education in Innovation Era, Nov. 2010

15. Ioan Radu, Lucian Gal, Doina Mortoiu, Dorin Demian, Gheorghe Hutiu, Gheorghe Sima, Lavinia Sabaila, Danut Sobol, Vertical Axis Wind Turbine and Pale with Variable Profile, International Symposium Research and Education in Innovation Era, Nov. 2010

16. Gheorghe Sima, Doina Mortoiu, Lucian Gal, Magnetic Control in Welding, International Symposium Research and Education in Innovation Era, Nov. 2010.

17. Radu, I., Mortoiu Doina, Gal, L., Săbăilă Lavinia, Muncut Stela, Nicolae Ursu Fischer

Study of the execution elements with piston modeling and simulation Symposium Research and Education in Innovation Era, 3rd Ed., Section Engineering, Arad, 1012 Nov., pp. 17-28,

ISSN 1842-9718. 10-12 Nov 2010 Arad,

The year 2012

18. Lucian Pavel, Ioan Radu, Dan Glăvan, Lucian Gal, Teohari Babanatsas Study on improving performance petrol supercharged engines International Symposium Research and Education in Innovation Era, 4 th Ed., Section Engineering, Arad, 8-9 Nov. 2012

D. Projects and Grants:

The year 2015

1. Partnership developed for Student Counseling and Practice in order to increase their employability - CONPRACTIS - Contract no. POSDRU/189/2.1/G/156607 – Mechanical field manager, 2015

E. Patents obtained in the entire activity

The year 2009

Gold medal at the PROINVENT Salon, 7th edition, International Salon of research, innovation and invention, for group of inventions, Cluj Napoca, 2009;

Title of participation works:

The year 2009

1. Filaments, PET fibers (vermiculi), and processes for their production from blankets

Filaments, fibers and methods for their production from PETs

Authors: Prof. Univ. Dr. Eng. Radu Ioan, Prof. Univ. Dr. Ing. Mortoiu Doina, Sl. Dr. Ing. Demian Dorin, Sl. Dr. Ing. Gal Lucian, Sobol Danut

Patent pending; Patent Application 2009, NO. OSIM: A/00241

2. Devices and installation for the production of PET filaments and fibers (vermiculi from blankets)

Devices and installations for the production of filaments and PET fiber

Authors: Prof. Univ. Dr. Eng. Radu Ioan, Prof. Univ. Dr. Ing. Mortoiu Doina, Sl. Dr. Ing. Demian Dorin, Sl. Dr. Ing. Gal Lucian, Sobol Danut In process of patenting; Patent Application 2009 (NO REGISTRATION NUMBER).

3. Solar panel with PET fiber active core

Solar panel with active pith made from PET fibers

Authors: Prof. Univ. Dr. Eng. Radu Ioan, Prof. Univ. Dr. Ing. Mortoiu Doina, Sl. Dr. Ing. Demian Dorin, Sl. Dr. Ing. Gal Lucian, Sobol Danut. Patent pending; Patent Application 2009 NO. OSIM: A/00240

4. Carpet and asphalt mixes reinforced with filaments and PET fibers

Reinforced asphaltic layer with filaments and PET fibers

Authors: Prof. Univ. Dr. Eng. Radu Ioan, Prof. Univ. Dr. Ing. Mortoiu Doina, Sl. Dr. Ing. Demian Dorin, Sl. Dr. Ing. Gal Lucian, Sobol Danut In process of patenting; Patent Application 2009 NO. OSIM: A/00253

5. Process and installation for the thermoforming of multilayer polymer plates from polymer composites

Process and installation for multilayer polymeric panels made from polymeric thermoplastic composites

Authors: Prof. Univ. Dr. Eng. Radu Ioan, Prof. Univ. Dr. Ing. Mortoiu Doina, Sl. Dr. Ing. Demian Dorin, Sl. Dr. Ing. Gal Lucian, Sobol Danut In process of patenting; Patent Application 2009 NO. OSIM: A/00252

F. Research Contracts

agreement

The year 2005

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