

Prof. Dr. Dragan Domazet

PERSONAL INFORMATION

Date of Birth: July 5, 1947
 Place of Birth: Nis, Serbia (Yugoslavia)
 Marital Status: Married, two daughters (22 and 16 years old)
 Nationality: Serbian
 Languages: English, French, and Serbian



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CAREER SUMMARY

- *Research experience* in information technology implementation in engineering, AI and knowledge-based systems, knowledge processing technologies, product data management (PDM), finite elements method analysis, mechanical design optimization, computer-aided design (CAD), computer-aided process planning (CAPP), CAD/CAM/CAE/CAPP/PDM/ERP integration, design and analysis hydraulic and mechanical presses
- *Current research interests:* collaborative product development (CPD), information & knowledge sharing, product data & knowledge management, workflow management, inter-enterprise collaboration/virtual enterprises, knowledge management, agent-based systems for integration of distributed systems, knowledge-based product life-cycle management, integrated product & process development, software engineering, operations management
- *Consultancy in industry of Singapore (7 years):* Feasibility studies for IT implementation in industry, implementation of product data management (PDM) systems, business process reengineering (BPR) projects in aerospace, shipbuilding and mould industry, FEM analysis
- 33 years of *teaching experience* (University of Niš, Nanyang Technological University, Singapore – School of Mechanical and Production Engineering)
- *Policy creation in research, technology, development and innovation (RTDI):* Creation of strategies for industrial development, R&D and innovation development. Development of RTDI programs.

EDUCATION

1990-1991: Post-doctoral research (as a Fullbright Fellow) on AI and knowledge processing technologies (KESRL, Director: Professor Stephen C-Y. Lu), Department of Mechanical and Industrial Engineering, University of Illinois at Urbana-Champaign, Urbana, Illinois, U.S.A

Followed PhD courses in AI, concurrent engineering and worked in a research project on new knowledge processing technologies with the implementation in CAPP (Computer Aided Process Planning) and concurrent product and manufacturing process design.

1976-1981: Ph.D.(Mechanical Engineering) University of Niš, Yugoslavia, Ph.D. dissertation: *“Analysis and optimization of hydraulic press frames”*

1972-1976: MS (Master of Science in Mechanical Engineering) University of Niš, Yugoslavia M.Sc. dissertation: *“Static and dynamic analysis of mechanical press frames of C-type”*

1966-1971: BS (Bachelor of Mechanical Engineering) University of Nis, Yugoslavia – Major: Manufacturing Engineering (5 years undergraduate program) – Dipl.Ing. Diploma

EMPLOYMENT HISTORY

Full-time Employment:

- 2005 – The founder of Faculty of Information Technology and Belgrade METROPOLITAN University. Professor and dean.
- 2004- 2008 *Professor*, Faculty of Mechanical Engineering, University of Niš, Serbia
- 2001–2004 *Minister of Science, Technology and Development*, The Government of Serbia, Republic of Serbia
- 1994- 2001 *Senior Research Fellow*, Gintic Institute of Manufacturing Technology, Singapore (Manufacturing Information Technology Division, Product Development and Data Management Group)
- 1991-1994 *Professor*, Faculty of Mechanical Engineering, University of Niš, Yugoslavia
- 1987-1991 *Associate Professor*, Faculty of Mechanical Engineering, University of Niš, Yugoslavia
- 1981-1987 *Assistant Professor*, Faculty of Mechanical Engineering, University of Niš, Yugoslavia
- 1971-1981 *Teaching Assistant*, Faculty of Mechanical Engineering, University of Niš, Yugoslavia

Part-time Employment:

- 1996 – 2001 *Part-time Lecturer* (M.Sc. Course in CIM), School of Mechanical and Industrial Engineering, Nanyang Technological University, Singapore
Subjects: M6225 Concurrent Engineering and M6221: Networking and Databases
- 1979-1990 *Senior Consultant* (CAD/CAE, Finite Element Analysis) – part-time consultancy
ERC, EI Electronic Industry Nis, Yugoslavia
- 1976-1985 *Chief Designer* of metal forming machines, MIN – Machine Industry Nis, Machine Tool Factory – engaged per project basis

AREAS OF RESEARCH

Collaborative Product Development and Engineering Collaboration:

- Development of *collaborative agents* to support systems interactions and engineering collaboration in heterogeneous computer environments, typical in inter-enterprise collaborations
- Development of event-driven (active) and distributed *middleware components* (such as CORBA/EJB business objects) and *engineering portals* to support inter-enterprise collaboration during joint product development
- Development of *distributed workflow engines*, based on Event-Condition-Action rules, in form of distributed CORBA/EJB objects to support dynamic (ad-hoc) workflows in heterogeneous computer environments [1 paper]
- Sharing of product and process data over the Internet by linking distributed and heterogeneous engineering databases, using STEP and XML technologies [6 papers]

Knowledge Management:

- Knowledge-based product life-cycle management
- Migration from data and information repositories to knowledge repositories and knowledge sharing services

- Knowledge-based engineering systems and their interactions using XML-based technologies (for loose coupled systems) and CORBA technology (for tightly coupled systems) [10 papers]

Product & Process Design Automation (1986-1994):

- **CAD Systems:**
 - ⇒ Development of the CIMROT system, an integrated system for design, analysis and manufacturing of rotational mechanical parts with rotational and non-rotational form features. [7 papers]
 - ⇒ Development of the CADROT system for feature-based design of rotational parts with rotational and non-rotational form-features. [11 papers].
- **Computer-Aided Processes Planning (CAPP):** Development of two knowledge-based, generative process-planning systems for rotational mechanical parts (XROT, CAPROT). [10 papers]
- **CAM Systems:** Development of the CAMROT systems that generates machining NC programs and provide a graphical simulation of the machining process based on a generated process plan. [1 paper]

Computer-Aided Engineering (1971-1986):

- **Finite Element Method Analysis and Design Optimization:**
 - ⇒ Analysis of contact problems of elastic bodies (bolt joints, slide guides) using FEM. [7 papers]
 - ⇒ Static and dynamic analysis of machine tool structures using FEM. [Ph.D. thesis, M.S. thesis, 7 papers]
 - ⇒ FEM modeling and automatic mashing. [7 papers]
 - ⇒ Design optimization using non-linear programming methods. [3 papers, Ph.D. thesis]
- **Analysis of Mechanisms:** Development of two CAE systems (PAM, PAKIM) for analysis of kinematics and dynamic properties of planar mechanisms with elastic elements (using FEM). [5 papers]

RESEARCH PROJECTS

Jan 2000–2001: Study: “R&D Strategy for Inter-Organizational Collaborative Product Development” (proposal of a new CPD implementation strategy for Singapore industry)

Role: Task Force Leader

Based on an analysis of requirements for inter-enterprise collaboration during development of joint products, typical use-cases were specified. A detail study of the relevant IT was done (including XML, intelligent agents, CORBA/Java, real-time collaborative sessions, virtual modeling, data and knowledge sharing, workflow systems, PDM, portals) and recommendations for future R&D strategic directions and projects are given. The emphasis is on technologies that support collaboration of remotely located engineering teams working in heterogeneous computer environments. Current efforts usually try to enable an integrated supply chain of collaborating companies. This study is proposing the next generation of supply chain integration that includes also the product design stage, based on concurrent engineering principles.

- 1997 – 2001 R&D project: “*Advanced Database Technologies for Concurrent Engineering*”
Role: Project Leader and System Architect (NTU-Gintic collaboration project)
The project goal: To develop an infrastructure to support collaboration and sharing of STEP AP203 product data (stored in a ObjectStore object database) between different PDM and CAD systems. Collaborative agents based on ECA rules have been developed to manage exchange of messages between systems. Their users may dynamically create them any time when new interoperability functionality is required. They provide a dynamic integration infrastructure and support an active, event-driven environment and use CORBA IDL interfaces, as specified by OMG PDM Enabler PDM interface specification. *Technologies used*: OMG PDM Enabler specification, STEP AP203 standard (ST Developer), object-oriented databases (ObjectStore), CORBA (VisiBroker), Internet/Web, Java (JBuilder), Enterprise JavaBeans application server, Event-Condition-Action rule management. Systems will provide interoperability between: Windchill, Metaphase, ProEngineer and UG systems.
- 1994 –1997 R&D project: “*PIKS: Product Information and Knowledge Servers for Concurrent Engineering Environments*” (Gintic in-house project)
Role: Project Leader, System Architect, System Designer
The project goal: To develop a STEP-based product database server to support product information in heterogeneous environments (with CAD/CAM/MRP systems). *Technologies used*: object-oriented databases (ObjectStore), STEP AP203 standards and tools (ST Developer, STEP Tools Inc.), C++ based client-server architecture (Ilog View and Ilog Broker), expert system shell (CLIPS 6.0), OO analysis and design with Booch’s methodology (RationalRose), and integrated CAD systems: ProEngineer and Unigraphics. *Development platform*: Sun Solaris
- 1988 – 1994 Research program: “*CIMROT: Computer Integrated Manufacturing of Rotational Mechanical Products*” (Sponsored by the National Foundation for Development)
Role: Project Leader, System Architect, Developer of CAD and CAPP modules
An integrated CAD/CAPP/CAM/CAE system was developed at the Laboratory for Intelligent Manufacturing Systems (Head: D. Domazet), University of Nis. The system consists of few fully integrated modules: (1) feature-based, parametric CAD module, (2) process planning module (a CAPP expert system), (3) CNC program generation and machining simulation module, and (4) automatic mesh FEM generation module.
- 1985-1986 Research project: “*Implementation of the GKS (Graphical Kernel System) standard for Honeywell 6 systems and Tektronix graphical terminals*”
Role: Sole researcher and developer of the GKS system
A GKS graphic library was developed for Honeywell 6 systems and Tektronix graphic terminals. It was later used in all development projects with computer graphics implementations at the Faculty of Mechanical Engineering.
- 1982-1984 Research project: “*Computer design, analysis and simulation of plane mechanisms with elastic properties*”
Role: Sole developer of the CAD/CAE system for plane mechanisms
The developed system enables engineers to design any plane mechanism powered with electric motors or hydraulic/pneumatic cylinders. Kinematics parameters (position, speed, and acceleration) may be obtained for any point (in tabular or graphical form). Kinetic analysis determines all forces (due to external loads, but also inertia forces) and elastic deflection and stresses of all elements of the mechanism (as the result of FEM analysis). The system was latter used for design and analysis of special mechanisms for presses for manufacture and vulcanization of tires with 2m diameter.

- 1981-1983 Research project: “Finite element analysis of machine tool structures with fixed and sliding joints”
Role: Sole researcher and system developer
 An iteration procedure for FEM analysis of fixed and sliding joints of machine tool structures was developed. It was used for development of a module that extends the functionality of SAP 4 program (for analysis of contacts of elastic bodies).
- 1976-1981 Ph.D. dissertation work: “Analysis and optimization of hydraulic press frames”
 The thesis proposed a new design concept for design of press structures. It is based on an optimal pre-stressed state that minimizes elastic deflections of frame columns under the maximal load of the press. A very detail FEM model for static and dynamic analysis was developed. A non-linear programming method for the optimization of 11 design parameters (including pre-stressing forces) was developed. A deep-drawing hydraulic press with special frame structure that can be pre-stressed with variable pre-stressed forces was developed for the experimental investigation and verification of results of FEM analysis and optimization. The results of this study were used later for the development of a family of hydraulic presses for Machine Tool Factory of MIN Nis.
- 1972-1976 M.S. thesis work: “Static and dynamic identification of mechanical press frames of C-type”
 A set of programs was developed for static and dynamic analysis of C-form frames of mechanical presses. The frames dynamic stiffness was defined and evaluated by FEM and experimentally. Strain-gauge experimental investigation of calculated stresses verified the correctness of the developed programs. The developed programs allow fast determination of optimal pre-stressed forces if the pre-stressing is needed or required.

INDUSTRIAL PROJECTS

(Projects done for specific industrial enterprises)

- Mar-Nov 1999: Project: “The Feasibility Study for PDM Implementation” (done for Singapore Technologies Aerospace, Singapore)
Role: Project Leader, Process Analyst (also involved in “As-Is” and “To-Be” modeling and planning of the implementation of the selected PDM system - Metaphase)
The goal of the project: To significantly reduce project cycle-time for development of new systems. Usual PDM implementation steps (according to MetaSDM methodology) were implemented: “As-Is” modeling, specification of business and operational objectives, process requirements, functional requirements and needed PDM capabilities. Based on the proposed “To-Be” process solution, a PDM implementation plan for Metaphase PDM system was prepared and Phase 1 is now in implementation.
- Jan-May 1999: Project: “Mould Development Re-Engineering Feasibility Study For Productivity Improvement” (done for Kojin Mould Manufacturing Pte Ltd, Singapore)
Role: Process Analyst – the team member responsible for business process modeling and re-engineering and for the proposal of the IT implementation road map.
The goal of the project: To minimize mould development cycle-time. ARIS process modeling tool was used for “As-Is” process modeling and for “To-Be” process proposal based on Concurrent Engineering principles. A new 3D CAD for mould design was introduced. Three pilot projects showed significant improvements in cycle-time reduction. A proposal for new IT infrastructure and systems was proposed for a phased implementation.
- Sep 1997 – Apr 1998 : Project: “SHIPISS: Ship Information Sharing System, Phase 1: The Feasibility Study” (done for Keppel Singmarine Dockyard Pte Ltd, Singapore)

Role: Project Leader, Process Analyst

The goal of the project: To minimize ship construction time by improving the engineering process and planning function with the latest IT. By using the ARIS Tool Set process-reengineering tool and methodology suggested by IDS Prof. Scheer GmbH, the current (“as-is”) processes were modeled and analyzed, and the improved, modified and re-engineered (“to-be”) processes were proposed. Based on the identified problems, a new CAD/CAM system and a new project management and material planning system is proposed, supported with cost-benefit analysis, ROI, and the implementation plan.

1979 –1990 Program: “*FEM analysis of new products*”, a part-time consultancy (2 days a week) for EI ERC Nis.

Role: Senior Consultant for FEM analysis

Many short-term design analysis projects were done. Static and dynamic Finite Element Analysis (FEM) of different mechanical products (train cars, cranes, press frames, etc.) and construction objects (bridges, buildings) using SAP 4 and Bersafe FEM systems

1976 – 1985 Program: “*Design and development of mechanical and hydraulic presses*” (done for for MIN-FAM (Machine Industry Nis – Machine Tools Factory), Yugoslavia) – the industrial projects of the Institute of the Mechanical Engineering Faculty, University of Nis

Role: Chief Designer, CAE Analyst

Few different presses were developed and later used in manufacturing industry in Yugoslavia, Poland and USSR. The following design and development projects were done:

- Hydraulic press for deep drawing with the nominal force of 1000 kN
- Hydraulic press for deep drawing with the nominal force of 1600 kN
- Screw press with direct electric drive EZP-1000 with the nominal force of 1000kN ,
- Friction screw press with the nominal force of 2500 kN

Feb–Sep 1982 Project: “*Design and development of the mechanical press for vulcanization of tires with 2m in diameter*” (done for Tigar-Sarlah Machine Industry, Pirot, Yugoslavia) – an industrial project of the Institute of the Mechanical Engineering Faculty, University of Nis

Role: Chief Designer, CAE Analyst

A specific mechanical press with the original design solution was designed, developed and experimentally tested. A specific program for analysis of its mechanism was developed. A number of such presses have been in use in Yugoslavia and few other countries.

1972 – 1988 Program: “*Experimental investigation of prototypes of new mechanical products*” (for many industrial companies) - industrial projects of the Institute of the Mechanical Engineering Faculty, University of Nis

Role: Principal Investigator

Many short-term projects were done for different companies. In most of the tests, the following features were tested: dynamic behavior, stresses, kinematics of the driving mechanisms, power efficiency, etc. The list of the product tested is as follows:

- Eccentric press EPU-100 - Press factory "Jelsingrad", Banja Luka, 1972
- High speed automatic press BPA-15 - Press factory "Jelsingrad", Banja Luka, 1977
- Eccentric press ARY-100 - Machine tool industry "ILR", Beograd, 1978
- Eccentric press EPU-160 - Press factory "Jelsingrad", Banja Luka, 1979
- Special mechanical press - "Igman" factory, Konjic, 1980
- Screw press with direct electric drive EZP-1000, MIN - Machine Industry NiS, 1983.

- Hydraulic press for deep drawing HPIF-100 - MIN - Machine Industry Nis, 1981
- Mechanical press for tires vulcanization - "Sarlah" factory Pirot, 1981
- Mobile platform - MIN - Machine Industry Nis, 1984
- Auto crane AD-40 - MIN - Machine Industry Nis, 1984
- Auto crane AD-25 - MIN - Machine Industry Nis, 1983
- Press for wooden briquettes production IK-ND-90-200
- Safety valve IN-SV-RB-20, "Lola Fluidomatic" factory Beograd, 1985
- Hydraulic press with 50 MN nominal force, "KAT" Titograd, 1985
- Hydraulic press with 300 MN nominal force, "KAT" Titograd, 1985
- Stress analysis in guiding columns of the hydraulic press with 300 MN nominal force, "KAT" Titograd, 1987
- Clutch and brake testis of eccentric press PEE-250, Press factory "Jelsingrad" Banja Luka, 1987
- Energy efficiency of eccentric press PEE-250/IV, Press factory "Jelsingrad" Banja Luka, 1987
- Twin presses 2xPSH 800-5500, Press factory "Jelsingrad" Banja Luka, 1988

Feb–Jun 1972 Project: *"Analysis of design, process planning and manufacturing processes"* (done for Pump Factory "Jastrebac" Nis, Yugoslavia) – an industrial project of the Institute of the Mechanical Engineering Faculty, University of Nis

Role: Process Analyst

The feasibility study was done for the largest pump manufacturer in Yugoslavia. After analysis of the "as-is" engineering processes, analysis of actual problems, a proposal was made for better organization of engineering information, classification of products (pumps) and components based of group technology.

SOFTWARE ENGINEERING SKILL DEVELOPED

- *Process modeling, analysis and re-engineering* by using ARIS Tools Set
- *Object-oriented analysis and design*: Use-case analysis based on Jacobsen's methodology (as used in Objectivity system) and detail design of object-oriented systems by UML/ Rational Rose. Design of object-oriented systems and their architecture.
- *Product modeling*, STEP product data exchange and STEP-compliant product database development. Tools used: ST Developer (STEP Tools Inc.) and ObjectStore OODBMS
- *Internet*: Web servers, HTML, XML
- *Object-Oriented Database Management Systems (OODBMS)*: Logical and physical database schema design, database queries and navigational object access. Experience with ObjectStore OODBMS since 1994.
- *Relational Database Management Systems (RDBMS)*: database schema design, SQL, JDBC
- *Development of client/server systems and distributed object-oriented systems* for heterogeneous environments based on CORBA (VisiBroker) and JEEE2/Java (JBuilder3.5).
- *Integration of systems* based on CORBA/IDL and CORBA ORB tools (such as VisiBroker)
- *Development of knowledge-based systems* based on expert system technology (CLIPS expert system shell, Ilog JRules).
- *Programming* with C++, Java, Lisp and Fortran

ACTIVITIES AT UNIVERSITIES

Teaching Activity

Subjects taught and developed at the Faculty of Mechanical Engineering, University of Nis:

- Machine Tool Design Theory,
- Metrology and Quality Control,
- Manufacturing Systems and Process Planning,
- Computer-Aided Design, a post-graduate course,
- Computer Integrated Manufacturing, a post-graduate course.
- Simulation and Optimization of Manufacturing Systems,
- Computer-Aided Design of Manufacturing Systems.

Subjects taught and developed for the M.Sc. course on CIM at Nanyang Technological University, Singapore (since 1995 to date):

- M6225: Concurrent Engineering (Module 2: CE Technology)
- M6221: Networking & Databases (Module 2: Distributed Computing, Module 3: Databases)

Supervision and Examination of Graduate and Ph.D. Students

The supervisor of the following Ph.D. dissertations:

- M. Manic: “*Knowledge-based methods for process planning of mechanical products*”, University of Nis, Yugoslavia
- M. Trajanovic: “*Knowledge-based methods for mesh generation in FEM analysis of machine tools*”, University of Nis, Yugoslavia
- Z. Djuriscic: “*AI methods in nesting problems of sheet metal parts*”, University of Nis, Yugoslavia

The external examiner of Ph.D. dissertations of the following Ph.D. candidates:

- University of Nis, Yugoslavia: A. Vulic, M. Mrkic, Lj. Djordjevic, M. Babic
- Nanyang Technological University, Singapore: J.K. Rephel, O. Sourina, G.S. Chinchwadkar

Current supervision of NTU students:

- External reviewer for the Research Student PhD Confirmation of Higher Degree Candidature: Ms Li Jingrong (Supervisor: A/P Khoo Li Pheng), School of MPE, NTU
- Supervisor of MSc projects for students: Mr. Zheng Yongwei and Mr. Rabiul Islam, School of MPE, NTU

Main Responsibilities and Administration

1991 - 1994 Head and founder of the Laboratory for Intelligent Manufacturing Systems, Faculty of Mechanical Engineering, University of Nis

1983 - 1990 Director of the Computing Center, Faculty of Mechanical Engineering, University of Nis

1981 - 1983 Head of the Laboratory for Machine Tools and Manufacturing, Faculty of Mechanical Engineering, University of Nis

1971 – 1994 University service at the University of Nis, Yugoslavia:

- Departmental Committees:
 - Member, Faculty Council
 - Member, Committee for Scientific Research Policy
 - Chairmen, Committee for Publishing Activities
- University Committees:
 - Member, University Editorial Board
 - Secretary, Association of University Professors and Researchers
 - Editor in Chief, Journal of Young Investigators, University of Nis

ACTIVITIES OUTSIDE UNIVERSITIES

2004- 2005 Adviser to the president of the Belgrade Chamber of Commerce on technology and knowledge transfer, industrial R&D and innovations.

2001 - 2004 Minister for science, technology and development.

- R&D and innovation policy and programs development.
- Project Leader, "Industrial development strategy of Serbia", The Ministry of Science, Technology and Development, Volumes 1,2,3 and 4.

AWARDS AND RECOGNITIONS

- 1989 *Fulbright Award*, 1989 – a research grant for one year post-doc research in USA (University of Illinois at Urbana-Champaign)
- 1986 *University Award*, University of Niš,
- 1982 *Faculty Award*, Faculty of Mechanical Engineering, University of Nis
- 1971 *University Award* – The Best Graduate in Engineering, University of Nis,
- 1970 *Student Research Award*, University of Niš

PUBLISHED BOOKS AND RESEARCH PAPERS

Books

- *"Introduction to Computer Integrated Manufacturing Systems"*, by D. Domazet, M. Trajanovic and M. Manic, Publisher: "Naucna Knjiga" Beograd, 1989.
- *"Computer Graphic Programming with GKS"* by D. Domazet. Publisher: "Naucna Knjiga" Beograd, 1989.

Published Papers

1. D. Domazet, The influence of pre stressed tie-rods on elastic deformations of C-form mechanical presses, *Naucni Podmladak*, No. 3-4, Vol. 1, 1969., University of Nis.
2. D. Domazet, Automatic regulation of stroke frequency of mechanical presses as a function of energy requirements, *Naucni Podmladak*, No. 1, Vol. 3, 1971., University of Nis.
3. P. Popovic, D. Domazet, The influence of press frames torsion on the tool, The 8th Yugoslav Production Engineering Conference, Mechanical Engineering Faculty, University of Ljubljana, 1972.
4. A. Pavlovic, D. Domazet, An approach to computer aided process planning, The 4th JUPITER Conference, JUPITER Association, Beograd, 1974.
5. D. Domazet, Natural frequencies and modal shapes of open type eccentric press frames, *SIMOD*, No. 3, Vol. 1, 1975., Mechanical Engineering Faculty, University of Nis.
6. D. Domazet, Experimental stress analysis of the eccentric press EPNB-25 under static loading conditions, *SIMOD*, No. 1, Vol. 1, 1975., Mechanical Engineering Faculty, University of Nis.
7. D. Domazet, Frequency characteristics of open type eccentric presses frames, *SIMOD*, No. 3, Vol. 1, 1975., Mechanical Engineering Faculty, University of Nis.
8. D. Domazet, Experimental investigation of the eccentric press frame EPNB-25, Mechanical Engineering Faculty, University of Nis., 1974.
9. D. Domazet, A contribution to the dynamic stiffness analysis of eccentric presses, *SIMOD*, No. 1, Vol. 2, 1976., Mechanical Engineering Faculty, University of Nis.
10. D. Domazet, A contribution to the calculation of inertial forces in eccentric presses, *SIMOD*, No. 1, Vol. 2, 1976, Mechanical Engineering Faculty, University of Nis, 1974.
11. D. Domazet, E. Sehovic, Some results of the experimental investigation of the dynamic behavior of the high speed eccentric press frame BPA-15, The Conference on Metal Forming, Mechanical Engineering Faculty, Banja Luka, 1977.
12. D. Domazet, Static stiffness calculation of C-form frames of eccentric presses, The 7th JUPITER Conference, JUPITER Association, Beograd, 1977.
13. D. Domazet, The critical ram loading forces eccentricity of eccentric presses, Mechanical Engineering Faculty, University of Nis, 1974.
14. D. Domazet, The calculation of pre-stressed single-piece press frames, BIAM '78 Conference, Mechanical Engineering Faculty, University of Zagreb, 1978.

15. D. Domazet, A contribution to the experimental determination of energy balance and energy efficiency of eccentric presses, The 13th Yugoslav Production Engineering Conference, Mechanical Engineering Faculty, University of Banja Luka, 1989.
16. D. Domazet, A contribution to the calculation of closed forms press frames, SIMOD, No. 1-2, Vol. 4, 1978., Mechanical Engineering Faculty, University of Nis.
17. D. Domazet, The calculation of pre-stressed single-piece design press frames of closed form, SIMOD, No. 1-2, Vol. 4, 1978., Mechanical Engineering Faculty, University of Nis.
18. D. Domazet, The SIZNS program for calculation of closed form press frames with- and without pre-stressing, SIMOD, No. 1-2, Vol. 4, 1978., Mechanical Engineering Faculty, University of Nis.
19. D. Domazet, The calculation of single-piece design press frames with pre-stressing elements in their columns, SIMOD, No. 1-2, Vol. 4, 1978., Mechanical Engineering Faculty, University of Nis.
20. P. Popovic, D. Domazet, The calculation of single-piece design press frames with pre-stressed elements on the open end, SIMOD, No. 1-2, Vol. 4, 1978., Mechanical Engineering Faculty, University of Nis.
21. D. Domazet, The influence analysis of the bearing design of eccentric presses main shafts on energy balance by an experimental method, SIMOD, No. 1-2, Vol. 4, 1978., Mechanical Engineering Faculty, University of Nis.
22. P. Popovic, D. Domazet, The energy analysis of direct drive screw presses, The 2nd Yugoslav Symposium on Machines and Mechanisms, Yugoslav IFToMM Committee, Nis, 1977.
23. P. Popovic, D. Domazet, A contribution to the analysis of the flywheel energy transfer of friction screw presses without side discs, Proceedings of the Fifth World Congress on Theory of Machines and Mechanisms, Montreal, ASME, Vol. 1, pp. 453-456, 1979.
24. D. Domazet, V. Marinkovic, P. Popovic, T. Pantelic, Some results of investigations of the driving mechanism and the frame of a special design mechanical press, The 3th Yugoslav Symposium on Machines and Mechanisms, Yugoslav IFToMM Committee, Mostar, 1980.
25. P. Popovic, D. Domazet, D. Temeljovski A contribution to the driving system analysis of screw presses, The 3th Yugoslav Symposium on Machines and Mechanisms, Yugoslav IFToMM Committee, Mostar, 1980.
26. D. Domazet, Press frames analysis with the finite element method, Proceeding of Mechanical Engineering Faculty, University of Nis, Vol. 2, 1980.
27. D. Domazet, D. Korunovic, The state and development plans of computer aided design applications as the result of the collaboration of the University of Nis and industry, Conference on Hardware and Software for structural analysis and CAD, Mechanical Engineering Faculty, - VTI, Zarkovo, Beograd, Vol. 1, 1980.
28. D. Domazet, An approach to the computer aided design of press structures, The 1st Conference on Computer Aided Design and Design Science, Mechanical Engineering Faculty, University of Zagreb, Vol. 2, 1981.
29. D. Domazet, Machine Tool Structure Optimization, The 12th International JUPITER Symposium, JUPITER Association, Beograd, 1982.
30. D. Domazet, The computer-aided analysis of driving mechanisms of presses for car tires, The 4th BIAM '82 Seminar, JUREMA, Zagreb, 1982.
31. D. Domazet, The influence analysis of single-piece design press frames of closed form using the finite element method, The 16th Yugoslav Production Engineering Conference, Mechanical Engineering Faculty, University of Mostar, 1982.
32. D. Domazet, D. Temeljovski, The critical analysis of conceptual designs of driving mechanisms of presses for car tires production, The 16th Yugoslav Production Engineering Conference, Mechanical Engineering Faculty, University of Mostar, 1982.
33. D. Domazet. The PAM-program system for plane mechanisms analysis, The 4th Yugoslav Symposium on Machines and Mechanisms, Yugoslav IFToMM Committee, 1983.
34. D. Domazet, The PAKIM-program for kinematics analysis of plane mechanisms, The 4th Yugoslav Symposium on Machines and Mechanisms, Yugoslav IFToMM Committee, 1983.
35. D. Domazet, M. Trajanovic, The influence analysis of joints of machine tool structures on their static stiffness - the state of the art, The 13th International JUPITER Symposium, JUPITER Association, Beograd, 1983.
36. D. Domazet, Some improvements of the flexible tolerance method, The 4th CAD/CAM Symposium, The Electromechanical Faculty, University of Zagreb, 1982.
37. D. Domazet, M. Trajanovic, A contribution to the stiffness analysis machine tool guides using the finite element method, The 17th Yugoslav Production Engineering Conference, Mechanical Engineering Faculty, University of Titograd, 1983.
38. D. Domazet, M. Trajanovic, Determination of the stiffness of machine-tool joints with the finite element method, The 5th CAD/CAM Symposium, The Electromechanical Faculty, University of Zagreb, 1983.
39. D. Domazet. The analysis of surface stiffness influence and the stiffness of elastic bodies in contact on the stiffness of joints, The 2nd Conference on Computer Aided Design and Design Science, Mechanical Engineering Faculty, University of Zagreb, 1984.

40. D. Domazet, A finite element method solution of contact problems with friction, The 16th Yugoslav Congress for theoretical and applied mechanics, Yugoslav Association for Applied Mechanics, 1984.
41. D. Domazet. An approach to the analysis and optimization of machine structures, The 14th International JUPITER Symposium, JUPITER Association, Beograd, 1984.
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