



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

DQM-POLYTECH-2022

CALL FOR PAPERS

13th DQM-POLYTECH International Conference on Life Cycle Engineering and Management

June 23-24, 2022, Prijedor, Serbia

Organized by:

The DQM Research Center, Prijedor, Serbia

www.dqmcenter.com

Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

www.spbstu.ru



The DQM Research Center, Prijedor, Serbia:
View to Main Building, Place of DQM-POLYTECH-2022 Event



Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia:
View to Main Building one of the organizers of DQM-POLYTECH-2022 Event

DQM-POLYTECH-2022, DQM INTERNATIONAL CONFERENCES

The DQM Research Center and Peter the Great St. Petersburg Polytechnic University invite you to participate in a both conferences **13th DQM International Conference on Life Cycle Engineering and Management** (DQM-POLYTECH-2022) on the the conference topics: Plenary Lectures, Quality Engineering, Reliability Engineering, Industrial Engineering, Systems Engineering, Military Engineering, Energy Efficiency and Lean Production. Papers in the above topics may relate to methods, techniques, methodologies and concepts. The conferences will be organized to plenary lectures, and conference topics sections. Authors are invited to submit english (or russian) language Microsoft word tekst of their papers by May 16, 2022. Submitted papers will be considered for acceptance as a full paper (6 pages maximum, including paper title, authors name, authors organization, paper summary and paper manuscript), 11 point size Times New Roman font, single space, normal, margins: left 4 cm, right 4 cm, top 5 cm, bottom 5 cm, without header and footer, without paragraphs. Submissions of the papers on E-mail: dqmcenter@mts.rs The papers will be considered by the Scientific Programme Committee and will be included into the conference proceedings in english (or russian) language. Scientific Program Committee Chair: **Ljubisa Papić**, professor at Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia and director and founder of the DQM Research Center, Prijedor, Serbia. Scientific Program Committee Co-Chairs: Professor **Yuriy Klochkov**, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia and Professor **Adarsh Anand**, Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, Delhi, India. The DQM-POLYTECH-2022 will consist of plenary lectures and parallel sessions with deliberate opportunities for relaxed professional interaction. The DQM-POLYTECH-2022 Proceedings will published in hard copy and CD by the DQM Research Center. We look forward to meeting you in Prijedor in June 2021.

Professor Ljubisa Papić

International Scientific Committee Chair

DQM-POLYTECH-2022

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CONFERENCE TOPICS

The purpose of the DQM-POLYTECH-2022 is to provide a forum for discussion of traditional and innovative approaches for improve the performance of reliability, maintainability, safety, supportability and quality of products, processes and systems. The DQM Research Center and Peter the Great St. Petersburg Polytechnic University invites new and original submissions addressing theoretical and practical topics and its applications covers all aspects relating to (but not limited to these topics):

Topic 1: Plenary Lectures

World renowned speakers are invited to address the plenary lectures at the beginning the DQM-POLYTECH-2022.

Topic 2: Quality Engineering

Examples of subject areas of **Quality Engineering** including, but not limited, the following: Total Quality Management, Design for Quality, Cost of Quality, Six Sigma Methodology, Quality Planning and Measurement, Taguchi Methods, Stakeholders, Brand Management, Standardization and Quality, Software Quality, Just-in-Time, Sampling Principles, Productivity Increasing, Statistical Methods and Techniques, Quality Education, Quality Culture, Testing Methods, Quality Awards, Sources of Variation, Information Systems in Quality, Quality of Services, Quality Management Systems, Environmental Management System, Brainstorming and Brainwriting, Benchmarking, Business Excellence, Quality Audit, FMEA/FMECA, Quality Assurance, Conformity Assessment, Computer Aided Quality, Statistical Quality Control, Balanced Scorecard, SWOT, System 5S, Quality and Competitiveness, Mapping Work Processes, Integrated Management System, Accreditation and Certification, Quality of Life etc.

Topic 3: Reliability Engineering

Examples of subject areas of **Reliability Engineering** including, but not limited, the following: Dependability Management, Reliability Analysis, Failure Analysis, Safety Engineering, Maintainability Engineering, Total Productive Maintenance, Reliability Centered Maintenance, Availability, Supportability, Durability, Maintenance Strategies, Data Collection and Analysis, Reliability Prediction, Reliability Testing, Systems Effectiveness, FMEA/FMECA, FTA, ETA, Cost of Maintenance, Design for Maintainability, Design for Reliability, Maintenance Technologies, Failure Diagnosis, Maintenance Systems, Software Maintenance, Logistics Engineering, Risk Analysis, Human Factors in Reliability, Reliability Allocation, Monitoring, Software Reliability, eMaintenance, Safety Culture etc.

Topic 4: Industrial Engineering

Examples of subject areas of **Industrial Engineering** including, but not limited, the following: Concurrent Engineering, Design of Experiment, Value Engineering, Business Process Reengineering, Project Management, Software Engineering, Data Base and Knowledge Base, Design Methodologies and Processes, Life Cycle Engineering, PERT, Fuzzy Systems, GPS, Knowledge Management, FMEA/FMECA, Technological Development Management, Multicriterion Analysis, Design Processes and Methodologies, Simulation and Modeling, International Marketing, Marketing Information System, Soft Computing, Expert Systems, Intelligent (Human) Robots, Life Cycle Cost, Industrial Health, Personnal Management, Intellectual Property, Organizational Culture, Resources Planning, Decision Makong etc.

Topic 5: Systems Engineering

Examples of subject areas of **Systems Engineering** including, but not limited, the following: Computer Aided Systems, Systems Modeling, On-line Control, Computer Aided Engineering Application, Supervisory, Control and Data Acquisition (SCADA), Active Systems, Mining

and Geology, Distance Learning, Information Technologies, Medical Engineering, Internet Technologies, Measurement Systems, Electrical Industry, Power Efficiency, Stochastic Systems, Telecommunications, Control of Industrial Processes, Telemedicine, Mechatronics, Transport and Traffic, Data Bases and Knowledge Bases, Waterpower Engineering, Agricultural Engineering, Automatization etc.

Topic 6: Military Engineering

Examples of subject areas of **Military Engineering** including, but not limited, the following: Defense System, Military Industry Competitiveness, Military Systems, Advanced Technologies and Defense System Functioning, Army Supplying, Military Logistics, Quality Management in Food Providing in Army, Quality of Scientific Work in Defence System, Security Measures, Military Applications of Multicriterion Analysis, Military Project Management, Military Operations, Risk Assessment in Military Organizations, Operational Planning in Army, Making Military Decision Process, Distance Learning in Defence System, Military-Technical Systems Effectiveness, Reliability and Availability of Military-Technical Systems, Maintainability of Military Equipment, Team Work in Military Systems, Human Resources in Defense Systems, Education in Defense Systems, etc.

Topic 7: Energy Efficiency

Examples of subject areas of **Energy Efficiency** including, but not limited, the following: Energy Efficiency as Sustainable Development Base, Consumption of Energetic Resources Problem, Energy from the Customer Point of View, Consumption Energy Services, Energy Saving Technologies, Unrestored Energy Sources, Restored Energy Sources, Cogeneration, Ecological Problems of Energetics, Standardization in Saving Energy Area, Energetic Certification of Buildings (houses), Continuous Education for Energy Efficiency, Energy Efficiency Increasing Projects, Legislation in Energy Consumption and Saving, Energy Efficiency of Communal Systems, Energy Efficient Materials, Intelligent Buildings, Energy Efficient Maintenance Equipment and Buildings, Risk Management in Power Systems, Architectural Parameters of Energy Efficiency, Systems of Heating, Conditioning, Ventilating and Cooling etc.

Topic 8: Lean Production

Examples of subject areas of **Lean Production** including, but not limited, the following: Continous Improvement Process, Lean Enterprise, Mass Production Systems, Muda-Mura-Muri, Visual Workplace (System 5S), Quality Function Deployment, Just-in-Time, Value Engineering, Lean-Six Sigma, Overall Equipment Effectiveness, Productivity, Quality Circles, Single Minute Exchange of Dies (SMED), Kanban, Poka-Yoke, 5 Whys, Kaizen, Deming PDCA Cycle of Improvement, Autonomation (Jidoka), Lean Maintenance, Spaghetti Diagram, Supermarkets, Hoshin Kanri, Gemba, 7 Wastes, Planning Under Uncertainty, Theory of Constraints, Value Stream Mapping, Visual Management (Andon Board), Spaghetti Chart, Enterprise Resource Planning, Heijunka, Ishikawa Diagram, Pull Production, Push Production, Total Productive Maintenance, Standardized Work, Flexible Manufacturing Systems etc.

INTERNATIONAL SCIENTIFIC COMMITTEE CHAIR

Professor Ljubisa Papic, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia; The DQM Research Center, Prijedor, Serbia

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Professor Adarsh Anand, Faculty of Mathematical Sciences, Department of Operational Research, University of Delhi, Delhi, India

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Ajit Verma, University College, Haugesund, Norway
Boris Volostnov, NTP, Russia
Manojla Zrnica, Public Institution Sport Center Borik, Republic of Srpska

DQM CONFERENCES LANGUAGES

The official languages of the DQM-POLYTECH-2022 are serbian, russian or english. This languages will be used for all printed matter, presentations and discussion.

SUBMISSION OF PAPERS

Submissions are invited on original and previously unpublished research. Authors are invited to submit their full papers electronically to the DQM-POLYTECH-2022 Organising Secretariat:

DQM Research Center

P.O. Box 132, 32102 Cacak, Serbia

Phone: 00 381 32 883610, Mobile: 00 381 64 1374442.

E-mail: dqmcenter@mts.rs; Website: www.dqmcenter.com

Full papers are accepted for review on the condition that the manuscript is original, has not been published before, has not been presented at a conference, and has not been submitted for presentation at another conference. The full papers will be reviewed and accepted papers will be included in the DQM-POLYTECH-2022 Proceedings which will be published in hard copy book and in electronic version (CD issue) and issued to delegates at the DQM-POLYTECH-2022. The paper should include the following information: Name(s) of author(s), The corresponding author, Position or job title, Organisation(s), Full postal address(es) Phone, fax numbers and E-mail, Paper title, Summary, Key words (maximum three), Introduction, Paper manuscript, References.

REGISTRATION FEE

The DQM-POLYTECH-2022 registration fee for one paper is 100,00 EUR for all delegates (presenting authors and attendants). Payment of fees must be made in advance for the full refereed paper to be printed in the DQM-POLYTECH-2022 Proceedings. Payment for authors of accepted papers and for attendants is required by 19 May, 2022. Fees include the DQM-POLYTECH-2022 materials and attendance to all official programme. Payment of registration fees should be made with help of Instruction for Customer Transfer in EUR (DQM Research Center Bank Details).

CONFERENCE LOCATION AND TRAVEL

The DQM-POLYTECH-2022 will take place in the village of Prijedor (Cacak), Serbia. Prijedor village is located near Cacak city, on the boundary central part (Sumadija) and West Serbia, about 140 km south from Belgrade. It is one of the most beautiful places in the region, at the confluence of two rivers: West Morava and Kamenica. Prijedor has excellent opportunities for spending time in nature and orchards. Weather in June in Prijedor is normally sunny with temperatures around 30°C. From Belgrade to Prijedor you can come by car or by bus.

REGISTRATION PROCESS

Please complete the DQM-POLYTECH-2022 registration form including payment information to address the DQM-POLYTECH-2022 Organising Secretariat. Registrations can also be made by E-mail. Upon receipt of the completed registration form, a confirmation will be sent by E-mail: dqmcenter@mts.rs. The registration desk of the DQM-POLYTECH-2022 will be open on Thursday, 23 June, 2022, from 8.00 - 9.00 a.m., DQM Research Center in Prijedor.

IMPORTANT DATES

- Deadline for submission of paper manuscript on E-mail dqmcenter@mts.rs May 16, 2022.
- Notification of papers acceptance: May 18, 2022.
- Registration fee payment no later: May 19, 2022.
- The DQM-POLYTECH-2022 final programme on the www.dqmcenter.com no later: June 15, 2022.
- The DQM-POLYTECH-2022 event dates: Thursday-Friday, June 23-24, 2022.