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Nota di contenuto	<p>SOCIOLOGICAL BARRIERS IN THE QUALITY OF PRODUCTION --</p> <p>INDUSTRY 4.0 - "EMPLOYEE 4.0" IN THE LIGHT OF TEACHING AND</p> <p>LEARNING -- SECURITY CULTURE AT PRODUCTION FACILITY.</p> <p>CONCLUSIONS FROM EMPLOYEES' TRAINING -- PROJECT PORTFOLIO</p> <p>MANAGEMENT AND QUALITY -- THE ECONOMIC AND SOCIAL</p> <p>DILEMMAS OF MANAGEMENT FOCUSED ON THE FUTURE OF RETAIL</p> <p>BRANCHES OF COMMERCIAL BANKS IN POLAND -- ACCESS TO DATA</p> <p>AND EMPLOYEE ACTIONS FOR INFORMATION SECURITY --</p> <p>MUSCULOSKELETAL DISORDERS RELATED TO THE PROFESSIONAL WORK</p> <p>OF ACADEMIC TEACHERS AND THE QUALITY OF THEIR WORK -- THE</p> <p>AREA OF SUPPLY CHAIN QUALITY MANAGEMENT - THIRD PARTY</p> <p>LOGISTICS IN CASE STUDY -- LEAN CONCEPT IN METAL ENTERPRISES -</p> <p>VERIFICATION OF BENEFITS -- INTERPRETIVE STRUCTURAL MODELING</p> <p>OF IDENTIFIED SUCCESS FACTORS TO LEAN IMPLEMENTATION IN SMEs</p> <p>-- INITIATIVES TO OVERCOME SOCIAL INEQUALITIES IN PUBLIC HEALTH</p> <p>MANAGEMENT IN THE EUROPEAN UNION -- THE QUALITY OF THE</p> <p>DECISION-MAKING PROCESS IN ROAD TRANSPORT -- QUALITY OF</p> <p>WORK AS A CHALLENGE FOR MODERN MANAGEMENT OF HUMAN</p> <p>RESOURCES IN RELATION TO EMPLOYEES FROM Z-GENERATION --</p> <p>INDUSTRY 4.0 AS A RESPONSE TO CONTEMPORARY STRATEGIC</p> <p>CHALLENGES PAPER -- ECO-INNOVATION IN MUNICIPALITIES AS AN</p> <p>ELEMENT OF SMALLER AGGLOMERATIONS SUSTAINABLE DEVELOPMENT</p>

- CASE STUDY -- INITIAL PUBLIC OFFERING (IPO) AS A POTENTIAL SOURCE OF CAPITAL FOR THE DEVELOPMENT OF THE WOOD-BASED INDUSTRY ENTERPRISES IN POLAND -- MAINTAINING THE APPROPRIATE LEVEL OF QUALITY IN THE ASPECT OF MACHINERY AND EQUIPMENT SAFETY IN FOOD INDUSTRY -- RISKY ENERGY ASPECTS - IDENTIFICATION, EVALUATION, ACCEPTABILITY ASSESSMENT AND IMPROVEMENT AIMS -- SUSTAINABILITY OF A SMALL FIRM - THE ENTREPRENEURIAL PERSPECTIVE -- THE CHALLENGES OF INDUSTRY 4.0 FOR SMALL AND MEDIUM ENTERPRISES IN POLAND AND SLOVAKIA -- INNOVATIVE SOLUTIONS IN THE PROCESS OF HEAT SUPPLY -- ISO 9001 STANDARD MANAGEMENT SYSTEM CERTIFICATION - DATA ANALYSIS FOR SECTORS BY COUNTRY -- IDENTIFICATION OF ATTRIBUTES OF INFORMATION AS AN ELEMENT OF MANAGEMENT SECURITY OF INFORMATION IN THE COMPANY -- DETERMINANTS OF THE ENERGY SAVING CONSTRUCTION QUALITY IN THE GREEN DESIGN -- PERSONNEL FUNCTION AUDIT AS A QUALITY-PROMOTING TOOL IN HUMAN RESOURCE MANAGEMENT IN A LOCAL GOVERNMENT UNIT -- DEMAND FOR COMPETENCES OF INDUSTRIAL ENGINEERING GRADUATES IN THE CONTEXT OF AUTOMATION OF MANUFACTURING PROCESSES -- ANALYSIS OF THE POSSIBILITY OF PARALLEL IMPLEMENTATION OF THE QUALITY MANAGEMENT SYSTEM AND OF THE CORPORATE SOCIAL RESPONSIBILITY SYSTEM INTO A NEW ORGANIZATION -- EFFICIENCY OF THE PRINCIPLE OF SUSTAINABLE DEVELOPMENT IN THE EUROPEAN UNION LAW -- CALCULATION OF THE THERMAL DYNAMIC PERFORMANCE OF THE RESIDENTIAL BUILDINGS' WALLS -- THE QUALITY ASSURANCE OF CAST AND WROUGHT AERO JET ENGINE COMPONENTS MADE FROM Ni-BASE SUPERALLOYS WITH USING OF QUANTITATIVE METALLOGRAPHY METHODS AND ALLOYS LIFETIME PREDICTION -- THE IMPACT OF THE MELTING AND POURING PROCESS ON THE QUALITY OF THE BIGGEST ROCKING BELL CALLED VOX PATRIS -- WEIGHT MINIMIZATION OF SPATIAL TRUSSES WITH GENETIC ALGORITHM -- THE EFFECT OF ADDING SLAG, ACHIEVED FROM WASTEWATER SLUDGE INCINERATION IN FLUIDIZED-BED FURNACE, ON THE QUALITY OF CONCRETE -- ANALYSIS OF TECHNICAL CONDITION OF LOCAL ROADS DRAINAGE IN THE CZESTOCHOWA REGION -- MANAGEMENT OF THE SPARE PARTS STORAGE IN THE PRODUCTION PROCESS USING THE MONTE CARLO METHOD -- LOCAL CORROSION OF AISI 304 STAINLESS STEEL IN ACIDIC CHLORIDE SOLUTION -- CARBON FIBER POLYMER COMPOSITES -- ASSESSMENT OF THE EFFECT OF THE PRE-CAST BEAMS IG AXIAL SPACING ON THE EFFORT BRIDGE SPAN -- DETERMINATION OF ACCURACY AND RELIABILITY OF PORTABLE HARDNESS TESTERS -- ADVANTAGES OF COLOUR ETCHING IN QUALITY CONTROL OF RECYCLED Al-Si CAST ALLOYS -- COMPUTER MODELLING OF RC BEAMS REINFORCED WITH HIGH STRENGTH REBARS AND STEEL PLATE -- CORROSION OF RC BEAMS DURING TIME -- INFLUENCE ON THE QUALITY OF SECONDARY ALUMINUM ALLOY CASTS BY Mn ADDITION -- SHAPE OPTIMIZATION OF A COLUMN UNDER GENERALIZED LOAD WITH A FORCE DIRECTED TOWARDS POSITIVE POLE -- MULTIAXIAL FATIGUE EXPERIMENTAL ANALYSIS OF 6063-T66 ALUMINUM ALLOY OF THE BASE MATERIAL AND THE WELDED MATERIAL -- COMPARISON CRACK RESISTANCE OF RC BEAMS WITH AND WITHOUT TRANSVERSE REINFORCEMENT AFTER SHEAR TESTING -- THE IMPACT OF THE IMAGE RESOLUTION ON THE VALUE OF MEASURED GEOMETRIC PARAMETERS ON THE EXAMPLE OF DUCTILE IRON STRUCTURE -- RELIABILITY OF VARIABILITY SOURCE DETECTION IN SHAININ'S COMPONENT SEARCH PROCEDURE -- TRENDS IN RAPID PROTOTYPING AND SMART ENGINEERING FOR CENTRAL EUROPE BASED ON THE 3DCENTRAL PROJECT -- SELECTED PROBLEMS OF INDUSTRY DATABASES AND

INFORMATION INFRASTRUCTURE SECURITY -- QUALITY IMPROVEMENT OF A SAFETY VALVE WITH THE USE OF NUMERICAL AND EXPERIMENTAL STUDIES -- QUALITY IMPROVEMENT OF A GEAR TRANSMISSION BY MEANS OF GENETIC ALGORITHM -- NUMERICAL SIMULATION OF FLUID FLOW INSIDE THE FLOW CONTROL VALVE -- TRIBOLOGICAL PROPERTIES OF OXIDE COATINGS PRODUCED ON EN AW-5251 ALLOY USING DIFFERENT DISTANCES BETWEEN ELECTRODES -- APPLICATION OF THE IMAGE ANALYSIS METHODS FOR THE STUDY OF  $Al_2O_3$  SURFACE COATINGS -- MACHINE LEARNING VERSUS HUMAN-DEVELOPED ALGORITHMS IN IMAGE ANALYSIS OF MICROSTRUCTURES -- SURFACE QUALITY OF THE MATERIALS USED FOR LIGHTING COLUMNS -- CORROSION EFFECT OF 65% NITRATE ACID ON X4CrNi1812 AT 333 K -- PHASE CHANGE HEAT EXCHANGERS MADE OF PIN-FINS FOR BOILING ENHANCEMENT -- USE OF THE CIT METHOD FOR QUALITY ASSESSMENT OF CATERING SERVICES -- ANALYSIS OF SOFT SKILLS OF PRODUCTION WORKERS IN THE CONTEXT OF PRODUCT QUALITY WITH AN EXAMPLE OF ORGANIC MILLS -- AN IMPROVEMENT OF QUALITY OF THE REAR COVER OF BEARING TURBINE WITH THE USE OF SELECTED METHODS -- PROPOSAL OF METHODOLOGY FOR PRACTICAL APPLICATION OF NONPARAMETRIC CONTROL CHARTS -- EFFECT OF NON-FULFILLMENT OF ASSUMPTIONS ON GAGE REPEATABILITY AND REPRODUCIBILITY STUDY EVALUATION -- DETAILED ANALYSIS OF GRR STUDY RESULTS AND THEIR VISUALIZATION -- QUALITY OF VIDEO GAMES: INTRODUCTION TO A COMPLEX ISSUE -- EVALUATION OF THE QUALITY OF THE PRODUCTION PROCESS PET BOTTLES -- QUALITY INDEX OF MULTI-DISC GRINDING PROCESS OF GRAINY BIOMASS -- THE QUALITY OF SUPPLIED PARTS AND THEIR INFLUENCE ON MANUFACTURED QUALITY IN SERIAL PRODUCTION -- AN IDENTIFICATION OF AREAS REQUIRING IMPROVEMENT IN THE COMPANY PRODUCING THE ILLUMINATION - CASE STUDY -- QUALITY OF LIFE IMPROVEMENT IN KAIZEN ASPECT -- IMPROVEMENT OF MANUAL ASSEMBLY LINE BASED ON VALUE STREAM MAPPING (VSM) AND EFFECTIVENESS COEFFICIENT -- ANALYSIS OF THE PROBLEM OF STAFF ALLOCATION TO WORK STATIONS -- ANALYSIS AND IMPROVEMENT OF THE GALVANIZED WIRE PRODUCTION PROCESS WITH THE USE OF DMAIC CYCLE -- USE THE DOE METHOD FOR TOOL DURABILITY INCREASE -- TRACEABILITY SYSTEMS AND TECHNOLOGIES FOR BETTER FOOD SUPPLY CHAIN MANAGEMENT -- CONCEPT OF RECONFIGURABILITY IN INTEROPERATION MANUFACTURING BUFFERS FOR SMART FACTORY -- EVALUATION OF THE POSSIBILITY OF USING METHANE FROM CNG BY POTENTIAL MOTOR VEHICLE USERS -- MATRIX FMEA ANALYSIS OF THE FLOW CONTROL VALVE -- QUALITY IMPROVEMENT IN PRODUCTION PROCESS -- QUALITY OF COKE USED IN BLAST FURNACE PROCESS - ANALYSIS OF SELECTED PARAMETERS -- QUALITY ASSURANCE PROCESSES IN SERIES PRODUCTION OF CAR ELEMENTS -- PRELIMINARY STUDY OF TIME BANKING PARTICIPATION

## Sommario/riassunto

The QPI conference has been organized since 2006, when it initiated meetings of science and business. Every year, the conference presents issues of new scientific research as well as the companies' needs for creating new organizational solutions. The objective of the conference QPI is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in production engineering, quality of materials, technology and management. The success and prosperity of the conference is reflected in the high level of the papers received.

The main organizer is the association Quality and Production Managers Association in cooperation with Department of Production Engineering

and Safety, Faculty of Management Czestochowa University of Technology and Association of Polish Inventors and Rationalizers

The proceedings are a compilation of the accepted papers and represent an interesting outcome of the conference. All speakers, authors and participants are a source of knowledge exchange, discussions and cooperation programs. Cooperation is carried out on the line of academic education and enterprises, searching for new solutions for companies and research topics for researchers

Subject areas, suitable for publication, include the following fields:

- quality of construction materials and products,
- industry 4.0,
- identification of areas rising from nonconformities,
- quality improvement instruments (principles, methods, tools, techniques),
- quality managementsystems,
- products quality control,
- statistical process control and measurement system analysis,
- visual control and visual management systems,
- maintenance management,
- concepts, methods of business management/production/quality (Lean, Six Sigma)
- organization and management of production, manufacturing system design,
- improving value streams,
- cleaner production and sustainable development,
- integrated product development,
- instruments for measuring the quality of services,
- human resource management vs quality improvement.

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