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EDUCATION AND RESEARCH MINISTRY
MANUFACTURING ENGINEERING DEPARTMENT



**CoSME
2008**

**The 2nd International Conference on
Computing and Solutions in Manufacturing Engineering**

Program

**25-27 SEPTEMBER 2008
BRAŞOV**

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Plenary Session

Thursday, 25th September, 11:00-13:00

1. *TENDENCIES IN THE DEVELOPMENT OF PRODUCTION ENGINEERING*
Illés DUDÁS University of Miskolc
2. *THE MATRIX CAM CONTROL SYSTEM AND THE CPC SYSTEM BY MAZAK*
Tadeusz NIESZPOREK, Tadeusz SZCZEPANIK, Wiesław SZYMAŃSKI Czestochowa University of Technology
3. *MODERN MANUFACTURING TECHNIQUES IN THE AUTOMOTIVE BODY*
Udo MÜLLER, Rainer MÜLLER University of Applied Sciences Würzburg-Schweinfurt
4. *RAPID PROTOTYPING APPLICATIONS AT TECHNICAL UNIVERSITY OF CLUJ-NAPOCA*
Petru BERCE, Nicolae BALC Technical University of Cluj-Napoca
5. *REVERSE ENGINEERING IN MANUFACTURING ENGINEERING*
Roxana PESCARU-FOLOSEA, Nicolae-Valentin IVAN, Răzvan UDROIU, Lorena LOAGA University "Transilvania" of Braşov

Section S1

CAD/CAE/CAPP/CAM & Product Life Cycle Management

Chairmen: *Prof.dr.Ian Campbell, Prof.dr.Goncalves Coelho, Karsten L.Jensen, Prof.dr.Herbert Wiener, Prof.dr.Nicolae Bâlc, Prof.dr.George Drăghici, Prof.dr.Nicolae V. Ivan, Prof.dr.Mircea Drăgoi, Prof.dr.Gheorghe Oancea*

Secretariate: *Lect.dr.Camil Lancea*

Thursday, 25th September, 15:00-16:30

1.	<i>NEW METHOD FOR THE FLANK MILLING OF RULED-SURFACES</i> Julien CHAVES-JACOB, Gérard POULACHON, Emmanuel DUC, Institut Francais de Mecanique Avancee - LAMI
2.	<i>MATERIAL FLOW IN FLEXIBLE MANUFACTURING AND ASSEMBLY</i> Peter KOŠŤÁL, Andrea MUDRIKOVÁ, Slovak University of Technology
3.	<i>CAD BASED DRILLING USING CONVENTIONAL TWIST DRILLS</i> Panagiotis KYRATSIS, Nikolaos BILALIS, Vasilis DIMITRIOU, Aristomenis ANTONIADIS, Technological Educational Institute of West Macedonia
4.	<i>SELECTION OF ENGINEERING MATERIALS AT CONCEPTUAL LEVEL BASED ON AXIOMATIC DESIGN</i> António MOURÃO, Rui MARTINS, António GONÇALVES-COELHO, The New University of Lisbon
5.	<i>MODERN MANUFACTURING TECHNIQUES IN THE AUTOMOTIVE BODY</i> Udo MÜLLER, Rainer MÜLLER, University of Applied Sciences Würzburg-Schweinfurt

Thursday, 25th September, 17:00-18:30

6.	<i>TECHNOLOGICAL PROCESSOR FOR POCKET MILLING</i> Marius BACALU, Claudiu CRACIUN, Lucian RADU, Transilvania University of Braşov
7.	<i>CAD/CAM SYSTEM FOR ENGINEERING OF SHAFTS</i> Lorena-Monica LOAGĂ, Nicolae-Valentin IVAN, Roxana PESCARU (FOLOSEA), Transilvania University of Braşov
8.	<i>IMPACT ESTIMATION OF SEMANTIC WEB, ONTOLOGIES AND SERVICE ORIENTED ARCHITECTURE USAGE ON PRODUCT LIFECICLE MANAGEMENT</i> Cosmin Septimiu NECHIFOR, Siemens Program and System Engineering Romania
9.	<i>MANUFACTURING OF VARIABLE-PITCH CONE WORMS ON AN UNIVERSAL CNC MACHINE TOOL</i> Tadeusz NIESZPOREK, Tadeusz SZCZEPANIK, Wiesław SZYMAŃSKI Politechnika Częschowska
10.	<i>COST ESTIMATING FOR CNC TURNING USING WINCOST SOFTWARE SYSTEM</i> Gheorghe OANCEA, Lucia Antoneta CHICOŞ, Cristina OANCEA, Cristin MORARIU and Valentin STAMATE

Friday, 25th September, 08:00-09:30

11.	<i>TIME SAVINGS IN PRODUCT DEVELOPMENT THROUGH DMA AND DFE IMPLEMENTATION</i> Lucian RADU, Claudiu CRACIUN, Marius BACALU, Transilvania University of Braşov
12.	<i>A COMPUTERIZED METHOD FOR DESIGNING ASSEMBLIES WITH PIPES CLAMPS</i> Emilia SCHEIBNER, Mihaela URDEA, Transilvania University of Braşov
13.	<i>VIRTUAL 3D CAD MODEL OF COMPLEX BODIES RELISED UNDER SOLID WORKS ENVIRONMENT</i> Valentin SEICULESCU, Aurel TULCAN, Daniel STAN, * Politehnica' University of Timişoara
14.	<i>CLAMPING FIXTURE FOR FLEXIBLE MANUFACTURING CELL</i> Karol VELÍŠEK, Peter KOŠŤÁL, Roman RUŽAROVSKÝ, Slovak University of Technolog

Section **S2**

Advanced Technologies & Artificial Inteligence

Chairmen: *Prof.dr.Athanasios Mamalis, Prof.dr.Gheorghe Achimas, Prof.dr.Octavian Bologa, Prof.dr.Ion Tureac, Prof.dr.Ionel Martinescu*

Secretariate: *Lect.dr.Alexandru C. Filip*

Thursday, 25th September, 15:00-16:30

1.	<i>ANALYSING SURFACE UNDERCUTS OF ZTA TYPE WORM GEARINGS</i> László DUDÁS, Illés DUDÁS, University of Miskolc
2.	<i>SOME CONSIDERATIONS REGARDING THE SIMULATION OF THE ROBOTS' MOVEMENT IN THE ENVIRONMENT WITH CONSTRAINTS</i> Aurel FRATU, Mariana FRATU, University of Brasov
3.	<i>CHARACTERISTIC TECHNOLOGICAL ASPECTS OF ENVIRONMENT-FRIENDLY CUTTING OF CYLINDRICAL GEARS</i> Domniţa FRĂŢILĂ, Csaba GYENGE*, Olimpia ROŞ, Technical University of Cluj-Napoca
4.	<i>SOME TECHNOLOGICAL ASPECTS OF HIGH PRECISION WORM-GEAR MANUFACTURING</i> Csaba GYENGE, Valentin BOCA, Adrian MURESAN
5.	<i>STUDY REGARDING SUPERFINISHING OF FLAT CIRCULAR SURFACES</i> Badea LEPĂDĂTESCU, Constantin BUZATU, Adela-Eliza DUMITRAŞCU, Ioan ENESCU, Transilvania" University of Braşov
6.	<i>EXPERIMENTAL RESULTS CONCERNING THE INFLUENCE OF PLASMA CUTTING WORKING PARAMETERS ON THE OBTAINED SURFACE ROUGHNESS (Ra)</i> Sanda Maria ILII, Technical University "Gh. Asachi" Iasi

Thursday, 25th September, 17:00-18:30

7.	<i>THE USE OF MULTIAGENT PROGRAMMING FOR SCHEDULING THE LOAD PLANS OF CRITICAL RESOURCES</i> Corneliu NEAGU, Mamgiris MILTIADIS, Lucia MELNIC, Ilie CONSTANTIN3 Politehnica University of Bucharest
8.	<i>ULTRASONIC GRINDING</i> František PECHÁČEK, Marcela CHARBULOVÁ, Angela JAVOROVÁ Slovak University of Technology in Bratislava
9.	<i>ACCELERATED STRESS TESTING OF SiC MEMS-DCA PRESSURE TRANSDUCERS</i> Constantin D. STANESCU, Cristiana VOICAN, Universitatea Politehnica Bucuresti
10.	<i>ULTRASONIC SENSORS FOR MOBILE ROBOTS</i>

Conference Program

	Radu ȚĂRULESCU, Stelian ȚĂRULESCU, University "Transilvania" Brașov
11.	<i>INFRARED DETECTION SENSORS FOR MOBILE ROBOTS</i> Radu ȚĂRULESCU, Stelian ȚĂRULESCU, University "Transilvania" Brașov
12.	<i>ELECTRICAL OPERATION OF 6H-SiC MESFET AT 5000 C FOR 500 HOURS IN AIR AMBIENT</i> Cristiana VOICAN , Constantin D. STANESCU, Universitatea Politehnica Bucuresti

Section **S3**

OTHER RELATED TOPICS

Chairmen: *Acad.Prof.dr.Radu Voinea, Prof.dr.Corneliu Berbente, Prof.dr.Ioan Goia, Prof.dr.Horațiu Iancău*

Secretariate: *Lect.dr.Răzvan Udroi*

Friday, 26th September, 08:00-09:30

1.	<i>SCHEDULING ALGORITHMS AND RECOMENDATIONS ON THEIR FIELD OF APPLICATION</i> Daniel-Ionut BANCILA Transilvania University of Brasov
2.	<i>MODELING THE DECISION MAKING PROCESS IN PUBLIC AUCTIONS</i> Mircea Viorel DRĂGOI Transilvania University of Braşov
3.	<i>A COMPARATIVE VIEW OF THE METHODS USED FOR ROAD TRAFFIC DATA COLLECTION IN ORDER TO ANALYZE THE TRAFFIC LIGHTS' SCHEDULE</i> Ariadna ILIUȚ, Janos TIMAR, Corneliu COFARU, Daniela FLOREA "TRANSILVANIA" University of Braşov
4.	<i>ANALYSIS CONCERNING THE TRAFFIC LIGHT SCHEDULE FROM AN URBAN SIGNALIZED INTERSECTION AND ITS IMPROVING METHODS</i> Ariadna ILIUȚ, Janos TIMAR, Corneliu COFARU, Daniela FLOREA "TRANSILVANIA" University of Braşov
5.	<i>A CONTRIBUTION TO THE DETERMINATION OF STATIC FRICTION COEFFICIENTS OF TRANSVERSE LOADED BOLTED JOINTS WITH REGARD TO THEIR SAFE DESIGN AND OPTIMIZATION</i> Max KLÖCKER, Karl HUFSCHMIDT, Michael PAGEL, Max BECKER Cologne University of Applied Sciences

Friday, 26th September, 10:30-12:00

6.	<i>RESEARCH REGARDING THE DEPENDENCE BETWEEN BREAKING STRENGTH, ELONGATION AND HARDENING COEFFICIENT</i> Silvia MIRONEASA, Costel MIRONEASA University "Ștefan cel Mare", Suceava
7.	<i>RESEARCH REGARDING THE DEPENDENCE BETWEEN BREAKING STRENGTH, ELONGATION AND ANISOTROPY COEFFICIENT</i> Silvia MIRONEASA, Costel MIRONEASA University "Ștefan cel Mare", Suceava
8.	<i>VEHICLE DETECTION WITH RADAR TRAFFIC CLASSIFIERS</i> Janos TIMAR, Ariadna ILIUȚ, Corneliu COFARU, Daniela FLOREA Transilvania University of Brasov
9.	<i>STUDY REGARDING THE ROAD TRAFFIC NOISE AND NOISE MAPPING</i> Janos TIMAR, Ariadna ILIUȚ, Corneliu COFARU, Daniela FLOREA, Călin ROȘCA Transilvania University of Brasov

Section S4

QUALITY ENGINEERING & RELIABILITY

Chairmen: *Prof.dr.Ian Campbell, Prof.dr.Goncalves Coelho, Karsten L.Jensen, Prof.dr.Herbert Wiener, Prof.dr.Nicolae Bâlc, Prof.dr.George Drăghici, Prof.dr.Nicolae V. Ivan, Prof.dr.Mircea Drăgoi, Prof.dr.Gheorghe Oancea*

Secretariate: *Lect.dr.Camil Lancea*

Thursday, 25th September, 15:00-16:30

1.	<i>THE TQM IN INDUSTRIAL ORGANIZATIONS</i> Dragos ARDELEANU , Anisor NEDELCU Transilvania University of Brasov
2.	<i>PROJECT QUALITY MANAGEMENT AS COMPETITIVE ADVANTAGE OF PROJECTS SUCCESS</i> Adela-Eliza DUMITRAȘCU, Constantin BUZATU, Dorin DUMITRAȘCU TRANSILVANIA University of Brașov
3.	<i>QUALITY ESTIMATION OF THE INDUSTRIAL PROCESSES USING AVERAGE RANGE LENGTH AND CAPABILITY INDICES</i> Adela-ELIZA DUMITRAȘCU, Badea LEPĂDĂTESCU, Dorin DUMITRAȘCU TRANSILVANIA University of Brașov
4.	<i>EUROPEAN ORGANIZATIONS FOR QUALITY ASSURANCE IN HIGHER EDUCATION</i> Alexandra Marina EDIȚOIU Transilvania University of Brasov
5.	<i>COMPUTER PROGRAM FOR THE DESIGNING OF SINGLE-SAMPLING PLANS BY VARIABLES WITH ONE ACCEPTANCE LIMIT, WHICH GIVE ASSURANCE REGARDING THE MEAN OF THE LOT</i> Nicolae EFTIMIE Transilvania University of Brasov
6.	<i>COMPUTER PROGRAM FOR THE CONTINUOUS-SAMPLING PLAN OF TYPE CSP-1</i> Nicolae EFTIMIE Transilvania University of Brasov

Thursday, 25th September, 17:00-18:30

7.	<i>COMPUTER PROGRAM FOR THE SKIP-LOT SAMPLING PLAN OF TYPE SKSP-2</i> Nicolae EFTIMIE Transilvania University of Brasov
8.	<i>CONSIDERATIONS REGARDING EVALUATION OF THE COMPLEXES SYSTEMS WITH MANY COMPONENTS</i> Ionel MARTINESCU Transilvania University of Brasov
9.	<i>THE CORRELATION BETWEEN THE QUALITY MANAGEMENT PRINCIPLES AND THE ISO TS 16949:2002 REQUIREMENTS</i> Laurențiu – Aurel MIHAIL Transilvania University of Brasov
10.	<i>A NEW APPROACH FOR PROBLEM SOLVING TO RAISE THE EFFICIENCY OF THE TECHNOLOGICAL PROCESSES</i> Laurențiu – Aurel MIHAIL Transilvania University of Brasov
11.	<i>ModelDATA – SOFTWARE SYSTEM USED FOR MANUFACTURING TOTAL TIME MODELING OF CUTTING OPERATIONS</i> Cristin-Olimpiu MORARIU, Gheorghe OANCEA Transilvania University of Brașov
12.	<i>OPTIMIZATION OF THE ESTIMATING MANNERS FOR THE RELIABILITY INDICATORS</i> Cristin-Olimpiu MORARIU Transilvania University of Brașov

Friday, 26th September, 08:00-09:30

13	<i>THE RISK MANAGEMENT IN INDUSTRIAL ORGANIZAIONS</i> Anisor NEDELCU, Dragos ARDELEANU Transilvania University of Braşov
14	<i>DEVELOPMENT OF A PROTOTYPE OF RADIAL ENCODER TO MEASURE SPINDLE RADIAL MOTION</i> Mitsuyoshi NOMURA , Takahiro KAWASHIMA, Takayuki SHIBATA, Yoshihiko MURAKAMI, Masami MASUDA and Osamu HORIUCHI Toyohashi University of Technology
15	<i>MODERN INDUSTRIAL FABRICATION AND MANUFACTURING ON BASIS OF COMPUTER AIDED ECONOMIC DESIGN, CONSTRUCTION, PRODUCTION, METROLOGY AND QUALITY MANAGEMENT</i> P. Herbert OSANNA, M. Numan DURAKBASA and Lukas KRÄUTER Vienna University of Technology
16	<i>NON-CONTACT MEASURING AND COMPARISON OF CHOSEN DIMENSIONS OF EXTRUSION DIE AND ALUMINIUM CHANNEL BAR</i> Jozef PETERKA*, Peter POKORNÝ**, Ladislav MOROVIČ Slovak University of Technology in Bratislava
17	<i>REDUCING THE TEST TIME USING THE ACCELERATED RELIABILITY TESTING</i> Sebastian Marian ZAHARIA, Ionel MARTINESCU Transilvania University of Braşov

Section **S5**
RAPID PROTOTYPING & REVERSE ENGINEERING

Chairmen: *Prof.dr.Paul Dan Brândașu, Prof.dr.Constantin Buzatu, Prof.dr.Csaba Gyenge,
 Prof.dr.Nouras Lupulescu, Prof.dr.Mihai Nica, Prof.dr.Dorin Roșca, Prof.dr.Laurențiu
 Slătineanu, Prof.dr.Gavrilă Urdea*

Secretariate: *Assist.Anton-Mircea Vasiloni*

Friday, 25th September, 08:0-09:30

1.	<i>COMPARISON BETWEEN DIFFERENT INFILTRATION METHODS, IN ORDER TO DECREASE THE POROSITY OF THE SLS METAL PARTS</i> Nicolae BÂLC, Petru BERCE, Răzvan PĂCURAR, Technical University of Cluj-Napoca
2.	<i>REVERSE ENGINEERING FOR ACTIVE MOULD PARTS</i> Cristian COSMA, Aurel TULCAN, Adrian-Ilie DUME, Tudor ICLANZAN, University Politehnica of Timisoara
3.	<i>METHODOLOGY OF OBTAINING A SOLID MODEL FOR INJECTED PART USING THE REVERSE ENGINEERING TECHNIQUE</i> Adrian-Ilie DUME, Cristian COSMA, Daniel STAN, Aurel TULCAN, Tudor ICLANZAN, University Politehnica of Timisoara
4.	<i>SOFTWARE COMPENSATIONS OF THE SLS METAL PARTS SHRINKAGE</i> Răzvan PĂCURAR, Nicolae BÂLC, Petru BERCE, Attila FARKAS, Technical University of Cluj-Napoca
5.	<i>THE REVERSE ENGINEERING TECHNIQUE STARTING FROM TURNING CN FILE</i> Roxana PESCARU (FOLOSEA), Nicolae-Valentin IVAN, Camil LANCEA, Gheorghe OANCEA, Transilvania University of Brasov
6.	<i>RAPID-X USING 3DPRINTERS</i> Răzvan UDROIU, Nicolae-Valentin IVAN, Transilvania University of Brașov

Section **S6**
**SOLUTIONS FOR TOOLS, DEVICES & COLD FORMING
 TECHNOLOGIES**

Chairmen: *Prof.dr.Paul Dan Brândașu, Prof.dr.Constantin Buzatu, Prof.dr.Csaba Gyenge,
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 Slătineanu, Prof.dr.Gavrilă Urdea*

Secretariate: *Assist.Anton-Mircea Vasiloni*

Thursday, 25th September, 15:00-16:30

1.	<i>RESEARCHES REGARDING THE ACCURACY OF A PROFILING MACHINE</i> Cristina BIRIS, Octavian BOLOGA, Radu Eugen BREAZ, Lucian Blaga” University of Sibiu
2.	<i>THE MATHEMATICAL MODEL OF A FEED DRIVE FROM A PROFILING MACHINE</i> Octavian BOLOGA, Radu Eugen BREAZ, Cristina BIRIS, Universitatea “Lucian Blaga” of Sibiu
3.	<i>CONTRIBUTIONS TO OPTIMIZE THE FORM CUTTING TOOLS SELECTION THAT PRODUCE GEAR TEETH ON SPUR GEARS</i> Constantin BUZATU, Badea LEPĂDĂTESCU, Transilvania” University of Brașov
4.	<i>MODELING AND SIMULATION OF PNEUMATIC ACTUATOR</i> Stanimir ČAJETINAC, Jelena Erić-OBUĆINA, High technical mechanical school R.Krstica 19, 37240 Trstenik, Serbia
5.	<i>REDUCTION OF NOISE IN INVOLUTE GEAR COUPLES BY ADDENDUM MODIFICATION</i> Lubomir DIMITROV, Snejana YORDANOVA, Georgi DIMCHEV, Technical University of Sofia, Bulgaria

Thursday, 25th September, 17:00-18:30

6.	<i>THE ANALYSIS OF DRILLS CUTTING EDGES QUALITY MADE BY RP5 ϕ6 MMAND THE CONNECTION WITH THERMOCURRENT</i> Valentin DIȚU Technical University of Brasov
7.	<i>QUALITY COMPARISON FOR TWO DRILL LOT MADE FROM 6 MM RP5 AND THE RELATION WITH THE CUTTING THERMOCURRENT)</i> Valentin DIȚU Technical University of Brasov
8.	<i>INFLUENCE OF TRACKING ERROR ON THE CONTOURING ACCURACY IN PARALLEL KINEMATICS MACHINING</i> Bernd KUHFUSS, Christian SCHENCK, Ghasem AMIRIAN, University of Bremen, Germany
9.	<i>INFLUENCE OF CUTTING PARAMETERS ON SURFACE ROUGHNESS IN END MILLING COBALT BASED SUPERALLOY FSX414</i> Milena FOLEA, Daniel SCHLEGEL, Nouras Barbu LUPULESCU, Christophe DECREUSE, Luminita PARV, Transilvania University of Brasov
10.	<i>DIGITAL SYSTEM FOR MEASURING AND RECORDING THE FORCES DURING THE COLD-PRESSING OPERATIONS</i> Ion NEAGOE, Alexandru C. FILIP, Technical University of Brasov

Friday, 26th September, 08:00-09:30

11.	<i>EXPERIMENTAL RESEARCH ON DIGITAL MEASURING AND RECORDING OF THE DEEP DRAWING FORCES</i> Ion NEAGOE, Alexandru C. FILIP, Technical University of Brasov
12.	<i>THE DESIGN OF WIRES AND FIBERS EXTRUSION SYSTEM</i> Maria NEAGU, University "Dunărea de Jos" of Galați

13.	<i>STATISTICAL TOLERANCE OPTIMIZATION OF THE MODULAR FIXTURE SYSTEMS. THE 2H2P2H ASSEMBLY</i> Tudor PĂUNESCU, Technical University of Brasov
14.	<i>A NEW SOFTWARE FOR TOLERANCE ANALYSIS AND SYNTHESIS OF THE MODULAR FIXTURES</i> Tudor PĂUNESCU, Technical University of Brasov
15.	<i>EXAMINATION OF STABILITY OF VIBRATION OF ENVIRONMENTALLY FRIENDLY TURNING OPERATION</i> Gyula VARGA, University of Miskolc