

**BIBLIOGRAFIA SELECTIVĂ A LUCRĂRILOR ȘTIINȚIFICE  
PUBLICATE DE CADRELE DIDACTICE, DOCTORANZI, STUDENȚI  
CERCETĂTORII ȘTIINȚIFICI ȘI PROFESORII ASOCIAȚI DE LA  
UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA**

2012

**FACULTATEA DE AUTOMATICĂ ȘI CALCULATOARE**

**Cadre didactice**

Abdul Rahman Salman Juma; COTÎRLĂ, Luminița Ioana. On a subclass of analytic functions defined by Ruscheweyh operator. În: Creative Mathematics and Informatics. Baia Mare, vol.21, nr. 1, 2012, p. 49-56, 6 ref. bibliogr. Abstr.engl.

BIROU, Marius. Blending surfaces generated using the Bernstein operator . În: Creative Mathematics and Informatics. Baia Mare, vol.21, nr. 1, 2012, p. 35-40, 7 ref. bibliogr. Abstr.engl.

CAPĂTĂ, Adela Elisabeta. An existence result for henig globally efficient solutions of vector equilibrium problems. În: Annals of the Tiberiu Popoviciu Seminar of functional equations, approximation and convexity. Cluj-Napoca, vol.10, 2012, p. 37-49, 21 ref. bibliogr.

LUNGU, Nicolaie; POPA, Dorian. On the hyers-Ulam stability of a first order partial differential equation. În: Carpathian Journal of Mathematics. Baia Mare, vol.28, nr. 1, 2012, p. 77-82, 24 ref. bibliogr. Abstr.engl.

MITREA, Alexandru. Double condensation of singularities for product-quadrature formulas with differentiable functions. În: Carpathian Journal of Mathematics. Baia Mare, vol.28, nr. 1, 2012, p. 83-91, 14 ref. bibliogr. Abstr.engl.

MUREŞAN, V; ABRUDEAN, M; UNGUREŞAN, M.L; COLOŞI, T. Numerical simulation of the automatic control system of the residual water blunting process from a foundry. În: Buletinul Științific al Universității "Politehnica" din Timișoara. Seria; Automatică și Calculatoare. Timișoara, vol.57 (71), nr. 2, 2012, p. 83-92, 6 ref. bibliogr. Cota: P 2992.

MUREŞAN, Viorica. On the solutions of a second order functional-differential equation. În: Carpathian Journal of Mathematics. Baia Mare, vol.28, nr. 1, 2012, p. 111-116, 12 ref. bibliogr. Abstr.engl.

MITREA, Alexandru. Double condensation of singularities for product-quadrature formulas with differentiable functions. În: Carpathian Journal of Mathematics. Baia Mare, vol.28, nr. 1, 2012, p. 83-91, 14 ref. bibliogr. Abstr.engl.

POP, Vasile. Stability of some functional equations defined by quasiarithmetic means. În: Carpathian Journal of Mathematics. Baia Mare, vol.28, nr. 1, 2012, p. 151-156, 11 ref. bibliogr. Abstr.engl.

RAŞA, Ioan. Estimates for the semigroup associated with Bernstein-Schnabl operators. În: Carpathian Journal of Mathematics. Baia Mare, vol.28, nr. 1, 2012, p. 157-162, 11 ref. bibliogr. Abstr.engl.

SÎNTĂMĂRIAN, Alina. A new proof for estimating the remainder of the alternating harmonic series. În: CreativeMathematics and Informatics. Baia Mare, vol.21, nr. 2, 2012, p. 221-225, 15 ref. bibliogr.

TODEA, Constantin Cosmin. On skew group algebras and symmetric algebras. În: Studia Universitatis Babeş-Bolyai. Series: Mathematica. Cluj-Napoca, vol.LVII, nr. 1, 2012, p. 11-14, 3 ref. bibliogr. Abstr.engl.

### **Doctoranzi, Studenți, Cercetători Științifici și Profesori Asociați**

AVRAM, C; AŞTILEAN, Adina; RADU, D; DOMUȚA, C. Working environment monitoring and control system using MANET. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 2, 2012, p. 160-166, 12 ref. bibliogr.

BETEA, Bogdan; Gherman, Mircea-Cristian; BORDA, Monica; DOBRA, Petru. Bearing defects signals demodulation using shock filters În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 3, 2012, p. 35-40, 8 ref. bibliogr.

DOMUȚA, C; RADU, D; ENACHE, M; AŞTILEAN, Adina. Application for intermodal transportation routing using bi-objective time-dependent modified algorithm. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 2, 2012, p. 154-159, 26 ref. bibliogr.

# FACULTATEA DE ELECTRONICĂ, TELECOMUNICAȚII ȘI TEHNOLOGIA INFORMAȚIEI

## Cadre didactice

ARSINTE, Radu; ANTONE, Alexandru Florin. Investigating methods to simulate and evaluate signal distribution in analog and digital TV cable networks. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 1, 2012, p. 37-42, 11 ref. bibliogr. Abstr.engl. Cotă:PC-ATN.El tel

CIASCAI, Ioan; Ciascai, Liliana. Învățarea autentică în pregătirea studenților din universitățile tehnice. În: Perspective asupra problematicilor din domeniul educației. Cercetări și aplicații. Cluj-Napoca, Acta Didactica, vol.7, 2012, p. 289-294, 8 ref. bibliogr. Cotă:539.288.

CRIȘAN, Nicolae. An affordable approach for extending the SDR concept over the X radio band. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 4, 2012, p. 41-46, 8 ref. bibliogr. Cotă:PC-ATN.El tel.

Dachin, Tudor; MEZA, Șerban; Nemeș, Marian; Vodă, Adriana; Badila, Florin. Complexity appreciation for BLDC flat top sinus implementation. În: Journal of Computer Science and Control Systems. Oradea, vol. 5, nr. 2, 2012, p. 5-8, 7 ref. bibliogr.

POP, Petre G. On using DNA distances and consensus in repeats detection. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 4, 2012, p. 27-32, 12 ref. bibliogr. Cotă:PC-ATN.El tel.

SĂRĂCUT, Ioana; NEAG, Marius; ONET, Raul; KOVÁCS, István. Design optimization of analog active circuits using the genetic algorithm. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 4, 2012, p. 47-52, 13 ref. bibliogr. Cotă:PC-ATN.El tel.

SĂRĂCUT, Ioana; NEAG, Marius; POPESCU, Victor; SZOPOS, Erwin. A genetic algorithm for the optimization of the analog channel filter. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 3, 2012, p. 41-46, 14 ref. bibliogr. Cotă:PC-ATN.El tel

SĂRĂCUT, Ioana; POPESCU, Victor; ȚOPA, Marina Dana. A matlab gui for simulating the propagation of the electromagnetic field in a 2-D infinite space. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 61-66, 10 ref. bibliogr. Cotă:PC-ATN.El tel

ZOLOG, Monica. An experimental analysis of signal reflections on printed circuit board transmission lines. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 4, 2012, p. 53-62, 7 ref. bibliogr. Cotă:PC-ATN.El tel

**Doctoranzi, Studenți, Cercetători Științifici și Profesori Asociați**

ANDRONE, Cristian; PALADE, Tudor. Characterisation of small cells networks deployment options and their impact upon macro-cellular networks. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 1, 2012, p. 15-20, 9 ref. bibliogr. Cotă:PC-ATN.El tel.

BADIU, Mihai-Alin; VARGA, Mihály; BOTA, Vasile; VLAICU, Aurel. Simplification of a link performance prediction method based on mutual information. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 3, 2012, p. 8-11, 12 ref. bibliogr. Cotă:PC-ATN.El tel

BOBĂILĂ, Radu-Christian. Dominant edge direction analysis directly in the DCT block domain. În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 25-32, 5 ref. bibliogr.

BOGĂTEANU, Diana; FARAGÓ Paul. The effect of process deviations on analog integrated circuits and circuit level compensation methods. În: Novice Insights. Cluj-Napoca, nr. 12, 2012, p. 23-29, 5 ref. bibliogr.

CÂMPANU, Iulian; NEAG, Marius. Design of two seconorder polyphase biquads using AO-RC implementation. În: Novice Insights. Cluj-Napoca, nr. 12, 2012, p. 30-37, 2 ref. bibliogr.

CHIOREANU, Adrian; BRAD, Stelian. Future internet and ITIL for intelligent management in industrial robotics systems. În: Buletinul Institutului Politehnic din Iași. Secția: Automatică și Calculatoare. Iași, tomul LVIII (LXII), nr. 1, 2012, p. 83-91, 14 ref. bibliogr. Cota: P 2192

COLDEA, Teodora Alexandra. Pedestrian motion analysis from surveillance videos using proximity maps and support vector machines. În: Novice Insights. Cluj-Napoca, nr. 12, 2012, p. 15-22, 7 ref. bibliogr.

CONTAN, Cristian; TOPA, Monica. Decoupled second-order Volterra filter structure using the NLMF adaptive algorithm for nonlinear acoustic Echo cancellation. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 56-60, 9 ref. bibliogr. Cotă:PC-ATN.El tel

DANCIU, Marius; ORGHIDAN, Radu; GORDAN, Mihaela; VLAICU, Aurel. Neuro-fuzzy stereo camera calibration architectures used in interactions with medical volumes. În: Acta Tehnica Napocensis. Series: Electronics

and Telecommunications. Cluj-Napoca, vol.53, nr. 4, 2012, p. 17-26, 29 ref. bibliogr. Cotă:PC-ATN.El tel.

DARABAN, Mihai; PITICĂ, Dan. Coding technique for information sent through a PCB parallel data bus for avoiding crosstalk. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 17-22, 12 ref. bibliogr. Cotă:PC-ATN.El tel.

DASCĂL, Vlad; DOLEA, Paul; Cristea, Octavian; PALADE, Tudor. Advanced VHF ground station for noaa weather satellite APT image reception. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 3, 2012, p. 1-7, 30 ref. bibliogr. Cotă:PC-ATN.El tel.

DOLEA, Paul; DASCĂL, Vlad; PALADE, Tudor; Cristea, Octavian. Low – cost prototype equipment for VLF radio wave monitoring. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 1, 2012, p. 47-51, 16 ref. bibliogr. Cotă:PC-ATN.El tel.

FARAGÓ, Paul; Jackum, Thomas; Böhm, Christoph; Hofer, Maximilian. Illustration of automatic digital synthesis for camellia – 128 cipher algorithm. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 1, 2012, p. 21-24, 6 ref. bibliogr. Cotă:PC-ATN.El tel.

GHERMAN, Mircea-Cristian; Piatecki, Cyrille; BORDA, Monica. Decisions tools in financial time series processing: a stochastic dominance perspective. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 4, 2012, p. 1-8, 19 ref. bibliogr. Cotă:PC-ATN.El tel.

ILES, Ovidiu. A survey on skin detection based on pixel color classification. În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 9-16, 7 ref. bibliogr.

JÁNÖ, Rajmond; PITICĂ, Dan. Accelerated ageing tests of aluminum electrolytic capacitors for evaluating lifetime prediction models. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 36-41, 9 ref. bibliogr. Cotă:PC-ATN.El tel

KISS, Zsuzsanna Ilona; POLGAR, Zsolt Alfred; MEDAN, Gavril Ionel; GIURGIU, Mircea. Integration of network coding techniques in future internet architectures. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 1, 2012, p. 31-36, 17 ref. bibliogr. Abstr.engl. Cotă:PC-ATN.El tel

KOVACS, Ingrid; ȚOPA, Marina. Adaptive combination of linear NLMS filters and its application in acoustic system identification. În: Novice Insights. Cluj-Napoca, nr. 12, 2012, p. 1-8, 8 ref. bibliogr.

MÎNZAT, Emil; RUS, Andrei Bogdan; DOBROTĂ, Virgil. Monitoring QoS parameters using iPad În: Novice Insights. Cluj-Napoca, nr. 12, 2012, p. 9-14, 7 ref. bibliogr.

MOLDOVAN, Vladimir; BUZA, Ovidiu. Vocal interaction with a virtual library using VXML. În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 9-16, 7 ref. bibliogr.

PĂTĂRĂU, Toma; ETZ, Radu; PETREUŞ, Dorin. Auto-compensation method for a buck converter. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 48-55, 14 ref. bibliogr. Cotă:PC-ATN.El tel

PĂTĂRĂU, T.; PETREUŞ, D.; DĂRĂBAN, S.R.; MUNTEANU, R.A.; MAGA, D. A bidirectional DC-DC converter used in smart grids. În: Electromotion. Cluj-Napoca, vol.19, nr. 1-2, 2012, p. 56-63, 8 ref. bibliogr. Abstr.engl.

POPESCU, Dalia; VARGA, Mihaly. Virtual-MIMO in LTE-A transmissions: challenges and Outcome În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 33-38, 4 ref. bibliogr.

POPESCU, Emanuel. On the practical advantages of fuzzy K-Nearest neighbor classification in visual objects recognition. În: Novice Insights. Cluj-Napoca, nr. 12, 2012, p. 52-60, 8 ref. bibliogr.

POPESCU, Marius Claudiu; GRAMA, Lăcrimioara. Design and simulation of a communication protocol for wireless sensor networks to optimize energy consumption and network lifetime. În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 54-63, 8 ref. bibliogr.

ROŞU, Roxana-Gabriela; RUSU, Cornelius. Sparsogram implementation for wildlife intruder detection. În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 39-46, 8 ref. bibliogr.

SALCĂ, Victor-Eugen; MOLDOVAN, Roxana-Dorina; ORZA, Bogdan; VLAICU, Aurel. Interactive learning concept in special educational programmes for high-performance athletes. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 4, 2012, p. 33-40, 7 ref. bibliogr. Cotă:PC-ATN.El tel.

SEVATICIAN, Paula; RUS, Andrei Bogdan; DOBROTĂ, Virgil. Simulation of the ford-fulkerson algorithm using OMNeT++. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 23-29, 9 ref. bibliogr. Cotă:PC-ATN.El tel

ŞUTA, Loreta; VAIDA, Mircea. Global blur assessment and blurred region detection in natural images. În: Acta Tehnica Napocensis. Series:

Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 30-35, 10 ref. bibliogr. Cotă:PC-ATN.El tel

Toma, Norbert; ȚOPA, Mariana; Sărăcuț, Ioana. Improvement of jot's reverberation algorithm. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 3, 2012, p. 12-15, 6 ref. bibliogr. Cotă:PC-ATN.El tel

TOMACHE, Elena Mădălina. Applications of computational visual attention models to visually salient regions detection in cultural heritage images analysis. În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 1-8, 7 ref. bibliogr.

TURDA, Ovidiu Adrian. Comparison of two line detection techniques. În: Novice Insights. Cluj-Napoca, nr. 12, 2012, p. 44-51, 9 ref. bibliogr.

ȚURCAN, Gheorghe; GRAMA, Alin. Air purification system for food storage. În: Novice Insights. Cluj-Napoca, nr. 13, 2012, p. 47-53, 9 ref. bibliogr.

URECHE, Marius Cristian; VAIDA, Mircea Florin. Mipios – medical image processing application oriented for mobile devices. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 3, 2012, p. 47-52, 13 ref. bibliogr. Cotă:PC-ATN.El tel

URECHE, Marius Cristian; VAIDA, Mircea Florin; DRAGOȘ, Ștefan; SUTA, Loreta; VOINA, Alin. An approach to nonrigid US-MRI registration of pelvic organs for endometriosis diagnosis. În: Acta Tehnica Napocensis. Series: Electronics and Telecommunications. Cluj-Napoca, vol.53, nr. 2, 2012, p. 42-47, 20 ref. bibliogr. Cotă:PC-ATN.El tel

## FACULTATEA DE INGINERIE ELECTRICĂ

### Cadre didactice

BALAN, Horia; Stefan, Elena; Vaida, Teodor; Karaisas, Petros. Fault current limiter in D.C. networks using thyristor by-pass circuits. În: Analele Universității din Craiova. Seria: Inginerie Electrică. Craiova, 2012.anul 36, nr.36, p. 230-234, 15 ref. bibliogr. Cotă: P 1524

BALAN, Horia; BUZDUGAN, Mircea; CHIOREAN, Cristina; Iacob, Ana; Karaisas, Petros. A passive EMI filter for the reduction of active filter generated network distortions. În: Analele Universității din Craiova. Seria: Inginerie Electrică. Craiova, 2012.anul 36, nr.36, p. 235-240, 9 ref. bibliogr. Cotă: P 1524

COPÎNDEAN, Romul; HOLONEC, Rodica; DRĂGAN, Florin. Phone call controlled garage door. În: Acta Electrotehnica. Cluj – Napoca, vol 53, nr.4, 2012. p. 330 - 332, 8 ref. bibliogr. Cotă: PC - AE

COPÎNDEAN, Romul; HOLONEC, Rodica; TODORAN, Gheorghe; FLUERĂȘ, Eudor. Musical instrument designed in labVIEW. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 2, 2012, p. 181-184, 5 ref. bibliogr. Cota:PC-AE

CRET, Laura; MUNTEANU, Călin; Mey de Gilbert; SIMION, Emil. Remarks about 2D electrostatic field analysis in anisotropic media using BEM. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 78-85, 5 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

DAN, Cosmin; Mey de Gilbert; Țopa, Vasile; GRINDEI, Laura. Cooling fin shape optimisation. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 12-26, 4 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

Dăscălescu, Lucian; SAMUILĂ, Adrian; IUGA, Alexandru; Köhnlechner, Rainer. Electrostatic separation technologies for waste electric and electronic equipment ( WEEE ) recycling. Entrepreneurial opportunities. În: Acta Technica Napocensis. Seria: Environmental Engineering and Sustainable Development Entrepreneurship. Cluj-Napoca, vol.1, nr. 1, 2012, p. 25-36, 24 ref. bibliogr. Bilingual edition. PC-ATN.Eesde

FILIP, Adina; MAIER, V; BELEIU, H; POP, D. Possible technical solutions identification in indoor lighting systems design. În: Journal of Sustainable Energy. Oradea, vol.3, nr. 3, 2012, p. 167-174, 26 ref. bibliogr. P 2926

FILIP, Adina; MAIER, V; PAVEL, S. Gh; POLEC, Victoria. Polar curves for indoor direct lighting luminaires and BZ classification. În: Acta

Electrotehnica. Cluj-Napoca, vol.53, nr. 2, 2012, p. 191-194, 9 ref. bibliogr.  
Cota: PC-AE

IUDEAN, Dan; MUNTEANU, Radu jr. Vibrations influence on the MS-1 N-8811 permanent magnet synchronous motors reliability. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 3, 2012, p. 246-250, 14 ref. bibliogr. PC-AE

Leșe, D; MAIER, V; PAVEL, S.G; BELEIU, H.G. Voltage quality analysis in a network point of interest. În: Journal of Sustainable Energy. Oradea, vol.3, nr. 4, 2012, p. 205-210, 13 ref. bibliogr. P 2926

MARGINEAN, Calin; Marginean, Ana-Maria; VESE, Ioana; TRIFA, Viorel; Trifu, Emil. Design and implementation of a PWM inverter for reluctance motors. În: Journal of Computer Science and Control Systems. Oradea, vol. 5, nr. 2, 2012, p. 23-26, 8 ref. bibliogr. P 2925/a

MICU, Dan; CHINDRIŞ, Mircea; MICU, Dan D; CZIKER, Andrei. Rotating magnetic field evaluation in polyphase harmonic polluted systems În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 53-56, 3 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MICU, Dan D; TOPA, Vasile; SIMION, Emil. Overview on formulas for the evaluation of self and mutual impedances of lines with earth return. AC cathodic protection. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 109-127, 18 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MICU, Dan D; MICU, Adrina. Application of the inversion method in electrical circuits theory. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 148-153, 4 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MICU, Dan D. Remarks about the evaluation of mutual impedances of lines with earth return. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 161-166, 7 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MIRON, A; CHINDRIŞ, M; CZIKER, A. Identification of electromagnetic disturbances in modern power systems. În: Journal of Sustainable Energy. Oradea, vol.3, nr. 1, 2012, p. 45-51, 23 ref. bibliogr. P 2926

MUNTEANU, Călin; SIMION, Emil; TOPA, Vasile; FOGARASI, Laura; Mey de Gilbert; Deconinck, Johan. The numerical simulation of the Steady-State skin effect using the Boundary Elements Method. În: Advanced numeral

computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 1-11, 4 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; TOPA, Vasile; SIMION, Emil; GRINDEI, Laura. Remarks about multi-terminal resistances numerical computation and optimal design using spline boundary elements. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 27-40, 11 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; TOPA, Vasile; SIMION, Emil; Mey de Gilbert. Multi-terminal resistances optimal design using spline boundary elements and genetic algorithms. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 57-66, 12 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; TOPA, Vasile; SIMION, Emil; GRINDEI, Laura; Rizzo, Renato; Mey de Gilbert. The influence of the electromagnetic interference on the Per-unit-length parameters of the current carrying conductors. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 100-108, 6 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; TOPA, Vasile; SIMION, Emil; GRINDEI, Laura; Mey de Gilbert; Dobbelaere, Monica. Shape optimization of the resistors with complex geometry using spline boundary elements and genetic algorithms. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 128-136, 9 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; SIMION, Emil; TOPA, Vasile; FOGARASI, Laura; GRINDEI, Laura; Mey de Gilbert; Deconinck, Johan. The numerical computation of thermoplastic sheets thermal capacity using numerical optimization methods. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 137-141, 5 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; SIMION, Emil; TOPA, Vasile; FOGARASI, Laura; GRINDEI, Laura; Mey de Gilbert; Deconinck, Johan. BEM\_2D boundary elements software for solving electric field problems. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 142-147, 7 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; FOGARASI, Laura; TOPA, Vasile; SIMION, Emil; GRINDEI, Laura; Mey de Gilbert. 3D multi-dipole synthesis using the

boundary element method. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 154-160, 9 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Călin; SIMION, Emil; TOPA, Vasile; GRINDEI, Laura. Remarks about the electric forces computation using the boundary elements method. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 167-174, 8 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

MUNTEANU, Mihai; RUSU, Corneliu. Eye ball movement detection based on the continuous wavelet transform. În: Analele Universității din Craiova. Seria: Inginerie Electrică. Craiova, 2012.anul 36, nr.36, p. 321-324, 12 ref. bibliogr. Cotă: P 1524

NICU, Anca; TAUT, Adrian; CIUPA, Radu. A PSpice study regarding the design of the equivalent electric circuit used in functional magnetic stimulation. În: Acta Electrotehnica. Cluj – Napoca, vol 53, nr.4, 2012. p. 333-336, 6 ref. bibliogr. Cotă: PC - AE

NICU, Anca; DARABANT, Laura; CIUPA, Radu; Micu, Bogdan. Remarks on optimal design of magnetic stimulating coils used in magnetotherapy. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 3, 2012, p. 242-245, 9 ref. bibliogr. PC-AE

SIMION, Emil; PURCAR, Marius; DAN, Călin; GRINDEI, Laura. Per-unit-length parameters numerical computation in high frequencies for electromagnetic interference analysis. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 47-52, 5 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

SIMION, Emil; PURCAR, Marius; TOPA, Vasile; MUNTEANU, Călin; Deconinck Johan. The numerical computation of the electrodynamics forces between two rectangular cross section conductors in permanent regime taking into account the skin and the proximity effects. În: Advanced numeral computation methods in EMC. Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 93-99, 5 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

ȚEBREAN, Bogdan; SILAGHI DUMUTRESCU, Radu; Crișan, Titus. Modelling of a capsule for controlled slow delivery, monitored via a capacitive method. În: Acta Electrotehnica. Cluj – Napoca, vol 53, nr.4, 2012. p. 322-329, 23 ref. bibliogr. Cotă: PC - AE

TOPA, Vasile; MUNTEANU, Călin; SIMION, Emil; DAN, Călin; GRINDEI, Laura. Optimal design of electromagnetic devices using the simulated annealing method. În: Advanced numeral computation methods in EMC.

Autori: Călin Munteanu, Vasile Țopa, Laura Grindei. Editura: Casa Cărții de Știință, 2001. p. 67-77, 12 ref. bibliogr. ISBN 973-686-076-0. Cotă: 537.942

TODORAN, Gheorghe. The spectral structure of the instantaneous active current. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 3, 2012, p. 81-85, 7 ref. bibliogr. PC-AE

TODORAN, Gheorghe. Equivalence of hexa-phase asymmetrical system with two three-phase symmetric subsystems. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 3, 2012, p. 251-245, 9 ref. bibliogr. PC-AE

TODORAN, Gheorghe; HOLONEC, Rodica; BUZURA, Anca; MUNTEANU, Oana. Symmetrical components' detection method for a hexaphase system using a " $\pm\alpha$ " phase shift filter. În: Acta Electrotehnica. Cluj – Napoca, vol 53, nr.4, 2012. p. 337-342, 10 ref. bibliogr. Cotă: PC - AE

### **Doctoranzi, Studenți, Cercetători Științifici și Profesori Asociați**

CIUPE, Adriana Maria; ROMAN, NM; GERGELY, S. Telemetry system for medical applications. În: Acta Electrotehnica. Cluj – Napoca, vol 53, nr.4, 2012. p. 343-349, 14 ref. bibliogr. Cotă: PC - AE

COZORICI, Ioan; VĂDAN, Ioan; BĂLAN, Horia. Condition based monitoring and diagnosis of rotating electrical machines bearings using FFT and wavelet analysis. În: Acta Electrotehnica. Cluj – Napoca, vol 53, nr.4, 2012. p. 350-354, 26 ref. bibliogr. Cotă: PC - AE

FILIP, Andrei-Toader; HANGIU, Radu-Petru; MARTIŞ, Claudia; BIRO, Karoly-Agaton. Multiphysics modeling of an permanent magnet synchronous machine. În: Journal of Electrical and Electronics Engineering. Oradea, vol. 5, nr. 2, 2012, p. 55-58, 12 ref. bibliogr. P 2927

GHEORGHE, D; CHINDRIŞ, M; CZIKER, A; VASILIU, R. Virtual instrument for power quality assessment. În: Journal of Sustainable Energy. Oradea, vol.3, nr. 1, 2012, p. 5-10, 21 ref. bibliogr. P 2926

HANGIU, Radu-Petru; FILIP, Andrei-Toader; MARTIŞ, Claudia Steluța; BIRÓ, Károly-Ágaton. System-level modeling and simulation of a permanent magnet synchronous motor for an integrated starter alternator În: Journal of Electrical and Electronics Engineering. Oradea, vol. 5, nr. 2, 2012, p. 67-70, 5 ref. bibliogr. P 2927

HANGIU, Radu-Petru; FILIP, Andrei-Toader; MARTIŞ, Claudia Steluța; BIRÓ, Károly-Ágaton. A Z-source inverter for an integrated starter alternator. În: Journal of Computer Science and Control Systems. Oradea, vol. 5, nr. 2, 2012, p. 15-18, 7 ref. bibliogr. P 2925/a

HARLIŞCA, Ciprian; SZABÓ, Loránd. Bearing faults condition monitoring – a literature survey. În: Journal of Computer Science and Control Systems. Oradea, vol. 5, nr. 2, 2012, p. 19-22, 30 ref. bibliogr. P 2925/a

OLTEANU, Mihai; MARINCAŞ, Cristinel; RAFIROIU, Dan. Dangerous temperature increase from EM radiation around metallic implants. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 2, 2012, p. 175-180, 12 ref. bibliogr. PC-AE

SZÖCS, Daniel; FENEŞAN, Andrei; PANĂ, Teodor. Acceleration signal calibration and filtering for determining wheel slip of an electric vehicle prototype. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 3, 2012, p. 228-234, 9 ref. bibliogr. PC-AE

TEODOSESCU, Petre Dorel; BOJAN, Mircea; VESE, Ioana Cornelia; MARSCHALKO, Richard. Study of the improvement of a CFL's power factor by using a valley fill filter. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 1, 2012, p. 74-80, 10 ref. bibliogr. PC-AE

TEODOSESCU, Petre Dorel; BOJAN, Mircea; VESE, Ioana Cornelia; MARSCHALKO, Richard. LED drive technology based on CFL ballast topology. În: Acta Electrotehnica. Cluj-Napoca, vol.53, nr. 3, 2012, p. 235-241, 10 ref. bibliogr. PC-AE

VASILIU, R; CHINDRIŞ, M; CZIKER, A; GHEORGHE, D. Variation of electrical parameters of two public lighting solutions due to continuous dimming of light output. În: Journal of Sustainable Energy. Oradea, vol.3, nr. 4, 2012, p. 252-257, 7 ref. bibliogr. P 2926

VASILIU, Răzvan-Bogdan; CHINDRIŞ, Mircea; CZIKER, Andrei; GHEORGHE, Daniel. Modeling of two lamp-ballast assemblies used in public lighting based on experimental measurements and interpolation. În: Ingineria Iluminatului. Cluj-Napoca, vol.14, nr. 1, 2012, p. 23-30, 4 ref. bibliogr.

## FACULTATEA DE CONSTRUCȚII

### Cadre didactice

GUȚIU, Ștefan I; MOGA, Cătălin; BOLDOR, Raluca. Consolidation of steel plate girders application of Eurocodes. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții. Arhitectură. Iași, tomul, LVIII, fasc. 2, 2012, p. 115-125, 4 ref. bibliogr. P 2064

KÖLLÖ, Gavril; ALB, Claudia; MOGA, Cătălin. Slenderness parameters of steel elements. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții. Arhitectură. Iași, tomul, LVIII, fasc. 2, 2012, p. 39-48, 7 ref. bibliogr. P 2064

MUNTEANU, Constantin; TĂMAŞ-GAVREA, Daniela-Roxana; STANCA, Simona; HODÁSZ, Gábor . Considerations regarding noise protection in a hotel. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții. Arhitectură. Iași, tomul, LVIII, fasc. 4, 2012, p. 81-95, 6 ref. bibliogr. P 2064

NEDELCU, Mihai; FRĂȚILĂ, Emil; ILIESCU, Mihai. Experimental modal testing of a concrete bridge. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 555-558, 8 ref. bibliogr. Abstr.engl.

NEDELCU, Mihai; GROZA, Paula; CUCU, Hortensiu L. The estimation of dynamic properties of a fixed beam using experimental modal testing. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 559-564, 7 ref. bibliogr. Abstr.engl.

TĂMAŞ-GAVREA, Daniela-Roxana; FERNEA, Raluca; MUNTEANU, Constantin; STANCA, Simona; ANDREICA, Ligia . Church acoustic rehabilitation case study. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții. Arhitectură. Iași, tomul, LVIII, fasc. 4, 2012, p. 71-79, 4 ref. bibliogr. P 2064

### Doctoranți, Studenți, Cercetători Științifici și Profesori Asociați

CIURILEANU (CIOCA), Gabriela-Teodora; BUCUR HORVATH, Ildiko. The use of cement stabilized rammed earth for building a vernacular modern house. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții. Arhitectură. Iași, tomul, LVIII, fasc. 1, 2012, p. 37-47, 7 ref. bibliogr. P 2064

PINTEA, Adrian. Variation of the degree of nonlinearity of cable structures in time, under dynamic loading. În: Scientific journal of the Technical

University of Civil Engineering. Seria: Mathematical Modelling on Civil Engineering. Bucureşti, vol.8, nr. 4, 2012, p. 201-207, 11 ref. bibliogr.

## FACULTATEA DE INSTALAȚII

### Cadre didactice

CATĂRIG (RUS), T; RUS, L.F. Experimental study on power characteristic curves of a portable pem fuel cell stack in the same environmental conditions. În: Journal of Sustainable Energy. Oradea, vol.3, nr. 4, 2012, p. 232-237, 9 ref. bibliogr. P 2926

RUS, L.F. Experimental study on the increase of the efficiency of vertical axis wind turbines by equipping them with wind concentrators. În: Journal of Sustainable Energy. Oradea, vol.3, nr. 1, 2012, p. 26-31, 10 ref. bibliogr. P 2926

### Doctoranți, Studenți, Cercetători Științifici și Profesori Asociați

CIUGUDEANU, Călin Nicolae. Indoor lighting tubular daylight guidance systems. În: Ingineria Iluminatului. Cluj-Napoca, vol.14, nr. 1, 2012, p. 7-12, 7 ref. bibliogr.

CIUGUDEANU, Călin; MONDOC, Bogdan; BEU, Dorin. Hybrid lighting system based by tubular daylight guidance systems and photovoltaic systems. În: Ingineria Iluminatului. Cluj-Napoca, vol.14, nr. 1, 2012, p. 7-12, 7 ref. bibliogr.

MARE, Roxana. The behavior of a solar thermo-electric refrigerator in the case of cooling milk. În: Scientific journal of the Technical University of Civil Engineering. Seria: Mathematical Modelling on Civil Engineering. București, vol.8, nr. 4, 2012, p. 125-132, 21 ref. bibliogr.

## FACULTATEA DE CONSTRUCȚII DE MAȘINI

### Cadre didactice

ARGHIR, Mariana; NISTOR, Elena; Kovacs, Istvan. Activity for the sound map in Bistrița Municipality. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 529-534, 3 ref. bibliogr. Abstr.engl.

BALANEAN, Tatiana Cristina. Introducing ESP – to high school & university students . În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 42-51, 22 ref. bibliogr. Abstr.engl.

BĂLCĂU, Carmen Monica; CRISTEA, Aurora Felicia. Considerations on the study of dynamic absorber. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 741-744, 17 ref. bibliogr

BĂRBÎNȚĂ, Aurel. The professional communication in scientific institutions. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 5-9, 10 ref. bibliogr. Abstr.engl.

BĂRBÎNȚĂ, Aurel. For a communicative approach of FLS. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 10-16, 11 ref. bibliogr. Abstr.engl.

BĂRBÎNȚĂ, Aurel. The caricatural image of teaching in Ionesco's work. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 5-10, 13 ref. bibliogr. Abstr.engl.

BERENDEA, Anca. Function of visual arts in Nathaniel Hawthorne's the marble faun. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 11-18, 4 ref. bibliogr. Abstr.engl.

BERENDEA, Anca. Transylvania and the handicraft guilds in the 13<sup>th</sup>-17<sup>th</sup> centuries. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 19-38, 50 ref. bibliogr. Abstr.engl.

BERENDEA, Anca. Considerations concerning the economical and organisational transformations of the Transylvania guilds during the period of the 17<sup>th</sup>-20<sup>th</sup> century. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 39-56, 24 ref. bibliogr. Abstr.engl.

- BIRLEANU, Corina; PUSTAN, Marius; DUDESCU, Cristian; BELCIN, Ovidiu; Rymuza, Zygmunt. Nanotribological investigations on adesion effect applied to mems materials. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 671-676, 5 ref. bibliogr. Abstr.engl.
- BUIGA, Ovidiu; HARAGÂŞ, Simion. A 2 stage coaxial helical speed reducer gearings optimal design with genetic algorithms. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 535-542, 21 ref. bibliogr. Abstr.engl.
- BULGARU, Cristina. Illusion and dream in the novel Denier du rêve by Marguerite Yourcenar. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 57-65, 3 ref. bibliogr. Abstr.engl.
- BULGARU, Cristina. For a ludic grammar in the FFL class . În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 71-77, 5 ref. bibliogr. Abstr.engl.
- CĂPRARU, Angelica. Student autonomy in language learning at university level. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 17-22, 7 ref. bibliogr. Abstr.engl.
- CĂPRARU, Angelica. The role of specialized translation in foreign language teaching. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 23-25, 7 ref. bibliogr. Abstr.engl.
- CĂPRARU, Angelica. The experience of differences – pleading for business intercultural communication. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 4, 2012, p. 22-29, 14 ref. bibliogr. Abstr.engl.
- CĂPRARU, Angelica. Communication and international communication. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 4, 2012, p. 30-35, 11 ref. bibliogr. Abstr.engl.
- COSTIN, Alexandra Florența. Theoretical and practical issues regarding ESP testing. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 26-33, 16 ref. bibliogr. Abstr.engl.
- CRISTEA, Aurora Felicia; BĂLCĂU, Carmen Monica. Linear hand-arm system stability. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 745-748, 7 ref. bibliogr
- CRISTEA, Aurora Felicia. The legislations and prevention measures bases regarding the mechanical vibration transmitted about the human body. În:

Acta Technica Napocensis. Series: Applied Mathematics and Mechanics  
Cluj-Napoca, vol.55, nr. 4, 2012, p. 749-754, 8 ref. bibliogr

DETEŞAN, Ovidiu-Aurelian; BUGNAR, Florin. Using the symbolic computation in matlab for determining the geometric model of serial robots. În: Acta Technica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 683-688, 6 ref. bibliogr. Abstr.engl.

FORNA, Adina-Irina. The city inscribed on paper. From the photographic practice to the writing exercise in Guy Vaes'works. În: Acta Technica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 77-86, 12 ref. bibliogr. Abstr.engl.

GRĂNESCU, Marinela; ADAM, Ema. Languages skills and tasks. În: Acta Technica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 34-44, 4 ref. bibliogr. Abstr.engl.

GRĂNESCU, Marinela; ADAM, Ema. Using translation with ESP learners . În: Acta Technica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 35-41, 6 ref. bibliogr. Abstr.engl.

INDOLEANU, Daciana; SZASZ, Augusta. Theoretical aspects of ESP evaluation. În: Acta Technica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 29-34, 4 ref. bibliogr. Abstr.engl.

IOANI, Monica. The french and the french for science and technology in Romania. În: Acta Technica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 45-51, 2 ref. bibliogr. Abstr.engl.

IOANI, Monica. Valorising content through from in interactive communication. În: Acta Technica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 4, 2012, p. 5-11, 10 ref. bibliogr. Abstr.engl.

ISPAS, Viorel; GUI (LUNG), Ramona-Maria; ISPAS, Virgil. The use of finite displacements theory to the geometric study of the serial TRTTRR1 robot. În: Acta Technica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 21-26, 7 ref. bibliogr. Abstr.engl.

ISPAS, Viorel; MIC, Lavinia Cristina; URSA, Nicușor Iosif. Calculation and design of the serial modular manipulator TT. În: Acta Technica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 27-32, 4 ref. bibliogr. Abstr.engl.

ISPAS, Virgil; GUI (LUNG), Ramona-Maria; ISPAS, Viorel. The flexible manufacturing cell served by the TRTTRR1 robot. În: Acta Technica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 57-66, 16 ref. bibliogr. Abstr.engl.

ISPAS, Virgil; GUI (LUNG), Ramona-Maria; URSA, Nicușor Iosif. The dynamic equations of the TRTTRR1 robot using the lagrange formalism. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 67-72, 4 ref. bibliogr. Abstr.engl.

ITUL, Tiberiu-Pavel; GALDAU, Bogdan; PISLA, Doina Liana. Static analysis and stiffness of a 2-DOF parallel device for orientation. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 615-620, 15 ref. bibliogr. Abstr.engl.

KACSO, Kalman; NEGREAN, Iuliu; SCHONSTEIN, Claudiu. The modeling of working process of the serial structure Fanuc. În: Acta Technica Napocensis. Seria: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 725-730, 3 ref. bibliogr.

LITERAT, Ruxanda. Optimising the communication in the educational space. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 52-58, 10 ref. bibliogr. Abstr.engl.

LITERAT, Ruxanda. Students' cognitive development in the language class. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 4, 2012, p. 102-109, 10 ref. bibliogr. Abstr.engl.

MOCAN, Bogdan. Planificarea performanțelor sistemelor robotizate de sudare cu arc electric utilizând instrumente specifice de planificare a calității și introducere sistematică a inovării: I. Identificarea caracteristicilor de performanță ale sistemului robotizat de sudare cu arc electric = Performance planning of arc welding robotic systems using specific tools for quality planning and systematic introduction of innovation; I. Identifying the arc welding robotic system performance characteristics. În: Calitatea –acces la succes. București, vol.13, nr. 127, 2012, p. 20-29(80-85), 40 ref. bibliogr.

MOCAN, Bogdan. Planificarea performanțelor sistemelor robotizate de sudare cu arc electric utilizând instrumente specifice de planificare a calității și introducere sistematică a inovării: IIb. Planificarea calității dispozitivelor de prindere a pieselor de sudat și a traectoriilor roboților cu ajutorul metodei QFD. În: Calitatea –acces la succes. București, vol.13, nr. 129, 2012, p. 29-38, 40 ref. bibliogr. În engl. p.91-97.

MORARIU-GLIGOR, Radu Mircea. Experimental determination of the vibrations of a plate compactor. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 755-760, 12 ref. bibliogr.

Munteanu, Ligia; BRIȘAN, Cornel; Chiroiu, Veturia; Donescu, Ștefania. A 3D model for tire/road dynamic contact. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 611-614, 16 ref. bibliogr. Abstr.engl.

MUNTEANU, Sonia. Widening the perspective on genre theory: social and cognitive approaches. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 59-64, 24 ref. bibliogr. Abstr.engl.

MUNTEANU, Sonia. Activities for teaching syntactic and morphological structures for EAP in science: the noun phrase . În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 23-28, 12 ref. bibliogr. Abstr.engl.

NEGOESCU, Monica. Dr. Schmidt Tibolt – a Romanian folklorist. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 87-92, 8 ref. bibliogr. Abstr.engl.

NEGOESCU, Monica. Emil Sigerus –promoter of Transylvanian multiculturalism. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 4, 2012, p. 96-101, 6 ref. bibliogr. Abstr.engl.

NEGREN, Iuliu; SCHONSTEIN, Claudiu; KACSO, Kalman. Formulation on the principles of analytical mechanics. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 627-634, 10 ref. bibliogr. Abstr.engl.

OLT, Maria-Cristina. Linguistic and cultural pluralism – Erasmus programme. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 4, 2012, p. 36-42, 12 ref. bibliogr. Abstr.engl.

OPRIŞ, Miruna. Foreign languages break communication barriers. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 65-71, 4 ref. bibliogr. Abstr.engl.

OPRIŞ, Miruna. Structural differences in the grammatical and linguistic contrastive systems. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 72-77, 3 ref. bibliogr. Abstr.engl.

OPRIŞ, Miruna. Addressing an inductive and contrastive approach to the scientific text . În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 128-134, 5 ref. bibliogr. Abstr.engl.

PACURAR, Răzvan; PACURAR, Ancuța; BERCE, Petre; BALC, Nicolae; NEMES, Ovidiu. Porosity change by resin impregnation in structures obtained by selective laser sintering technology. În: Studia Universitatis. Babes-Bolyai. Chemia. 2012. vol. 58, nr. 3, p. 5-13, 15 ref. bibliogr. Cotă: P 491

PĂCURAR, Ancuța; MURARIU, Vlad; RADU, Adrian Seve; PANC, Nicolae. Practical results regarding the competitive product developing methodologies. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 873-876, 4 ref. bibliogr.

PĂCURAR, Răzvan; PĂCURAR, Ancuța; RADU, Adrian Seve. Research on how to control the porosity of the medical implants made by selective laser melting technology. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 877-884, 17 ref. bibliogr.

PĂDUREȚU, Sanda. Literary histories and critical studies regarding the 1848 "Pasoptist" period in Romanian literature. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 93-98, 4 ref. bibliogr. Abstr.engl.

PĂDUREȚU, Sanda. The diachronic reception of the 1848 "Pasoptist" period in Romanian literary criticism. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 99-106, 1 ref. bibliogr. Abstr.engl.

PĂDUREȚU, Sanda. Chronological segmentations on typological patterns regarding the 1848 "Pasoptist" period in Romanian literature. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 107-114, 5 ref. bibliogr. Abstr.engl.

PĂDUREȚU, Sanda. Establishing the novel genre by the "Histories" of Ion Ghica. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 115-120, 1 ref. bibliogr. Abstr.engl.

PANC, Nicolae; RADU, Sever Adrian; PĂCURAR, Ancuța. The simulation of wax solidification process in silicone ruber mold. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 885-888, 7 ref. bibliogr.

POLICSEK, Cecilia. Ellipsis and 'Mischievous imagination' in autobiography of a slave (1840) by Juan Francisco Manzano. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 121-127, 21 ref. bibliogr. Abstr.engl.

POPAN, Alexandru; B\LC, Nicolae; CAREAN, Alexandru; LUCA, Alina. New industrial applications of the abrasive water jet processing. În: Academic Journal of Manufacturing Engineering. Timișoara, nr. 3, vol. 10, 2012, p. 97-102, 19 ref. bibliogr.

POPESCU, Diana Ioana. Assessment of workplace noise in order to prevent the risks of exposure. În: Acta Tehnica Napocensis. Series: Applied

Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 589-594, 6 ref. bibliogr. Abstr.engl.

POPESCU, Sorin Gabriel; PETRUŞ, Adriana Andreea. Metode de analiză a riscului în managementul proiectului: analiză critică = Risk analysis methods in project management: critical analysis. În: Calitatea –acces la succes. Bucureşti, vol.13, nr. 127, 2012, p. 8-14(73-76), 41 ref. bibliogr.

PUSTAN, M; Muller, R; Golinval,J.C.; Nanomechanical and nanotribological characterization of microelectromechanical system. În: Journal of Optoelectronics and Advanced Materials. Măgurele-Ilfov, vol.14, nr. 3-4, 2012, p. 401-412, 17 ref. bibliogr.

PUSTAN, Marius; BIRLEANU, Corina; DUDESCU, Cristian; BELCIN, Ovidiu; Golinval, Jean-Claude. Size effect on the dynamical behaviour of electrostatically actuated mems resonators. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 599-604, 5 ref. bibliogr. Abstr.engl.

RADU, Sever-Adrian; COMAN, Adrian; PANC, Nicolae; MUREŞAN, Sorina. Modeling and graphic optimization of vacuum casting process of wax parts in flexible molds. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 245-248, 5 ref. bibliogr. Abstr.engl.

SABAU, Emilia; BALC, Nicolae; BERE, Paul; NEMES, Ovidiu. New materials from waste glass fibre. În: Studia Universitatis. Babes-Bolyai. Chemia. 2012. vol. 58, nr. 4, p. 201-208, 17 ref. bibliogr. Cotă: P 491

SOCACIU, Lavinia-Gabriela. Seasonal thermal energy storage concepts. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 775-784, 12 ref. bibliogr

SOCACIU, Lavinia-Gabriela. Thermal energy storage: an overview. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 785-794, 20 ref. bibliogr

ȘTEOPAN, Mihai; ȘTEOPAN, Andrei; COSTEA, Adrian. Mobile platform for indoor use. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 95-98, 7 ref. bibliogr. Abstr.engl.

TODEA, Luminița. Considerations on ESP courses for students in engineering in a Romain Academic setting. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 62-70, 18 ref. bibliogr. Abstr.engl.

TRIF, Adrian. Methods of tracking and correcting the trajectories using the proximity transducers (part 1). În: Acta Tehnica Napocensis. Series:

Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 761-766, 12 ref. bibliogr

TRIF, Adrian. Methods of tracking and correcting the trajectories using the proximity transducers (part 2). În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 767-774, 13 ref. bibliogr

TRIPON, Mona. Truth and fiction in Thomas Mann's novella "Death in Venice ". An analysis of literary motifs. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 2, 2012, p. 138-145, 12 ref. bibliogr. Abstr.engl.

TRIPON, Mona. Aspects of intercultural learning in foreign language teaching . În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 3, 2012, p. 94-100, 10 ref. bibliogr. Abstr.engl.

URSA, Nicușor Iosif; MIC, Lavinia Cristina; ISPAS, Viorel. The calculation and design of the serial modular robot TRTR1. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 99-104, 3 ref. bibliogr. Abstr.engl.

URSA, Nicușor Iosif. The dynamic study of the suspended TTRT serial robot, gateway type. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 105-110, 8 ref. bibliogr. Abstr.engl.

URSA, Nicușor Iosif. The dynamic study of the suspended TTRT serial robot, gateway type. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 323-328, 8 ref. bibliogr. Abstr.engl.

VLAICU, Rodica. Interactive lectures. În: Acta Tehnica Napocensis. Series: Languages for Specific Purposes. Cluj-Napoca, vol.12, nr. 1, 2012, p. 96-101, 6 ref. bibliogr. Abstr.engl.

VUŞCAN, Ioan Gheorghe; MORARIU-GLIGOR, Radu Mircea; MIRCEA Ancuța. Method to determine the minimal kinematic structures of the machining centers. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 311-318, 5 ref. bibliogr. Abstr.engl.

VUSCAN, Ioan; NEGREAN, Iuliu; KACSO, Kalman; Mircea, Ancuta. The mathematical model for a kinematic structure type 3T3R – 3T3R. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 709-712, 3 ref. bibliogr. Abstr.engl.

VUSCAN, Ioan; NEGREAN, Iuliu; KACSO, Kalman; Mircea, Ancuta. Particularisation of the mathematical model 3T3R – 3T3R applied to a

structure type 1T-2T. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 713-718, 3 ref. bibliogr. Abstr.engl.

### **Doctoranzi, Studenți, Cercetători Științifici și Profesori Asociați**

ALBU, Sorin Cristian. Geometric and numerical modeling of helical surfaces. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 329-334, 4 ref. bibliogr. Abstr.engl.

ANTAL, Tiberiu Alexandru. Some aspects of graphical process simulation in Visual Basic. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 51-56, 6 ref. bibliogr. Abstr.engl.

BALTARU, Tudor Cristian; SUCALĂ, Maria Felicia. Kinematic mechanism with adjustable oscillation with rod of variable length. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 809-812, 4 ref. bibliogr

BALTARU, Tudor Cristian; SUCALĂ, Maria Felicia. The precision and sensitivity of the speed regulator on the functioning of the impulse drive in automatic adjustment regime. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 813-818, 4 ref. bibliogr

BLEBEA, Adrian Vasile; ISPAS, Viorel; DUCA, Adina Veronica. Appropriate choosing the cross-roller ring for robotic applications. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 363-368, 4 ref. bibliogr. Abstr.engl.

BLEBEA, Adrian Vasile; ISPAS, Viorel; MORARIU-GLIGOR, Radu Mircea; URSA, Nicușor Iosif. Solving dynamic modelling of TTTR gantry modular robot by newton euler formalism. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 355-362, 8 ref. bibliogr. Abstr.engl.

BLEBEA, Adrian Vasile; ISPAS, Viorel; GUI, Ramona-Maria; URSA, Nicușor Iosif. Solving direct kinematics modeling of TTTR gantry modular robot by iterative method. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 111-116, 6 ref. bibliogr. Abstr.engl.

BOCĂNET, Vlad; Abăitencei, Horia; Chiriță, Constantin; DENES-POP, Marius; BĂRNUTIU, Liviu. Dynamic analysis of a hydraulic actuation system of very slow moving devices. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții de Mașini. Iași, tomul LVIII (LXII), nr. 1, 2012, p. 29-33, 3 ref. bibliogr. Cota: P 2065/a

BOCĂNET, Vlad; VAIDA, Liviu; DENES-POP, Marius. Simulation of a combined mecano-hydraulic drive used in mobile applications. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 369-372, 7 ref. bibliogr. Abstr.engl.

BUDĂCAN, Ioan. The factors that influence the energy requirements of the grinding process of wheat grain. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 699-702, 13 ref. bibliogr. Abstr.engl.

BUGNAR, Florin; DETEŞAN, Ovidiu-Aurelian; ISPAS, Viorel. Contributions to the geometric modeling of industrial modular, articulated, serial robots with five degrees of freedom, using symbolic computation. În: Acta Technica Napocensis. Seria: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 719-724, 11 ref. bibliogr.

BUGNAR, Florin; GUI (LUNG), Ramona-Maria; ISPAS, Viorel. The geometric modeling of the articulate 6R robot. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 125-134, 4 ref. bibliogr. Abstr.engl.

BUGNAR, Florin; GUI (LUNG), Ramona-Maria; ISPAS, Virgil. The direct kinematic model of the serial modular robot TRTTRR1. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 135-140, 4 ref. bibliogr. Abstr.engl.

BUGNAR, Florin; DETEŞAN, Ovidiu-Aurelian; ISPAS, Viorel. Contributions to the geometric modeling of industrial modular, articulated, serial robots with five degrees of freedom, using symbolic computation. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 719-724, 11 ref. bibliogr. Abstr.engl.

CHIRIBĂU, Ovidiu; CIUPAN, Cornel. Detecting gear defects using vibration analysis. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 823-826, 7 ref. bibliogr.

CHIRIBĂU, Ovidiu; CIUPAN, Cornel. Monitoring and analysis of a CNC turning lathe machine vibration – case study. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 827-830, 11 ref. bibliogr.

CHIRIBĂU, Ovidiu; CIUPAN, Cornel. Maintenance service of the dynamic machinery using vibration analysis. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 147-154, 14 ref. bibliogr.

CHIRIBĂU, Ovidiu; FERENT, Silvia; PETRUS, Rares; PURA, Ambrozie; CIUPAN, Cornel. Reliability and predictive maintenance of dynamic equipment. În: Acta Tehnica Napocensis. Series: Applied Mathematics and

Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 155-160, 18 ref. bibliogr. Abstr.engl.

Chiș, Mihaela Angela; CRĂCIUN, Florina Maria. Important cephalometric parameters in the dento-facial imbalance assessment for dento-maxillary abnormalities. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 73-78, 8 ref. bibliogr. Abstr.engl.

CIGAN, Vlad; VUŞCAN, Ioan; BUDELECAN, Adrian; FARKAS, Felix Attila. The influence of injection angle, particle diameter and plasma gas flow on a NiCrAlY particle in the plasma spraying process. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 383-386, 8 ref. bibliogr. Abstr.engl.

CIGAN, Vlad; VUŞCAN, Ioan; BUDELECAN, Adrian; FARKAS, Felix Attila. Mathematical model of particle-plasma interactions in the plasma spraying process. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 379-382, 8 ref. bibliogr. Abstr.engl.

CIGAN, Vlad; VUŞCAN, Ioan; BUDELECAN, Adriana; FARKAS, Felix . Solving dynamic modelling of TTRT gantry modular robot by newton euler formalism. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 355-362, 8 ref. bibliogr. Abstr.engl.

CIOBAN, Dorin; ACHIMAS, Gheorghe; BUDAI, Alina Florentina; ACHIMAS, Sorin. Public administration reform in the context of service quality. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 161-166, 3 ref. bibliogr. Abstr.engl.

COMAN, Adrian; RADU, Sever-Adrian; BERCE, Petru. Wax pattern defects. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 167-170, 4 ref. bibliogr. Abstr.engl.

CONȚIU, Glad; POPA, Marcel Sabin; POP, Grigore Marian; SIMON, Vasile; SEVER, Adrian Radu. FEM simulation of the thermal transfer during the electrical discharge machining. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 171-174, 4 ref. bibliogr. Abstr.engl.

COROIAN, Adrian; LUPEA, Iulian. Vibro-acoustic analysis of passenger compartment. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 831-836, 15 ref. bibliogr.

FARKAS, Felix Attila; KALMAN, Kacso; CIGAN, Vlad; CAZAN, Rareş; VUŞCAN, Gheorghe Ioan. Mathematical model&robot design of

autonomous underwater vehicles (AUV) and remotely operated vehicles (ROV). În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 413-418, 6 ref. bibliogr. Abstr.engl.

FARKAS, Felix Attila; CIGAN, Vlad; CAZAN, Rareş; BUDELECAN, Adrian; VUŞCAN, Gheorghe Ioan. Scada for underwater vehicles. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 407-412, 13 ref. bibliogr. Abstr.engl.

FERENȚ-PIPAS (PĂDUREAN), Silvia; CHIRIBĂU, Ovidiu; PURA, Ambrozie; CIUPAN, Cornel. Modern cutting processes-comparative analysis. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 175-180, 14 ref. bibliogr. Abstr.engl.

FODOREAN, Ioan; BERCE, Petru; POP, Dinu; MUREŞAN, Sorina. The influence of the spray parameters on the matrix durability by spraying metal molten. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 181-186, 7 ref. bibliogr. Abstr.engl.

GUI (LUNG), Ramona-Maria; ISPAS, Viorel; ISPAS, Virgil. The dynamic equations of the TRTTRR1 robot using the Newton-Euler formalism.. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 79-88, 10 ref. bibliogr. Abstr.engl.

GUI (LUNG), Ramona-Maria; ISPAS, Virgil; URSA, Nicușor Iosif. The geometric modelling of the serial modular robot TRTTRR1. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 89-94, 5 ref. bibliogr. Abstr.engl.

IOANES, Cosmin; CHIOREAN, Adrian. Current trends regarding the intuitive programming of industrial robots. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 187-192, 25 ref. bibliogr. Abstr.engl.

KACSO, Kalman; NEGREAN, Iuliu; SCHONSTEIN, Claudiu. The modeling of working process of the serial structure Fanuc. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 725-730, 3 ref. bibliogr. Abstr.engl.

Khilil, Sohaib; BERCE, Petru; LEORDEAN, Dan. Direct fabrication of metal components using laser forming techniques. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 795-802, 10 ref. bibliogr

Khilil, Sohaib; LEORDEAN, Dan; BERCE, Petru. Microstructure and mechanical properties of medical implant made from titanium alloys. În: Acta Tehnica

Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 803-808, 11 ref. bibliogr

KONYA, Bogdan; PLITEA, Nicolae. The dynamics of a new reconfigurable parallel robot with six degrees of freedom. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 859-868, 6 ref. bibliogr.

LEU, Adrian; ARGHIR, Mariana. Controlling tire sway. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 419-422, 3 ref. bibliogr. Abstr.engl.

LUMEI, Călin Vasile; ARGHIR, Mariana. Study about sound absorption into concreted-wood materials. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 595-598, 3 ref. bibliogr. Abstr.engl.

LUNGU, Nicoleta; BORZAN, Marian. Effect of cutting speed and feed rate on tool geometry, temperature and cutting forces in machining AISI 1045 carbon steel using FEM simulation. În: Proceedings in manufacturing systems. Bucureşti, vol.7, nr. 4, 2012, p. 245-252, 8 ref. bibliogr. Cota: P 342

MATEI, Corina-Mihaela; BLEBEA, Ioan. Influence of the cutting tool geometry on the surface generation process. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 423-426, 3 ref. bibliogr. Abstr.engl.

MATEI, Corina-Mihaela; ŞTEOPAN, Andrei; BLEBEA, Ioan. CAM in the CNC machining process. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 203-206, 4 ref. bibliogr. Abstr.engl.

MATEI, Corina-Mihaela; BLEBEA, Ioan. Replication of an existing model shape using laser scanning-a case study. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 427-430, 4 ref. bibliogr. Abstr.engl.

MIC, Lavinia Cristina; ISPAS, Viorel; URSA, Nicușor Iosif; BUGNAR, Florin. Contributions to the calculation of actuators for the serial modular robot TRTR1. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 431-436, 6 ref. bibliogr. Abstr.engl.

MIC, Lavinia Cristina; ISPAS, Viorel; URSA, Nicușor Iosif. The calculation of actuators for the TRTR1 robot. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 641-646, 5 ref. bibliogr. Abstr.engl.

MUREŞAN, Paul; POPA, Marcel. The reliability of diesel motors studied through AHP of fuzzy-weibull type. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 447-454, 12 ref. bibliogr. Abstr.engl.

MUREŞAN, Paul; POPA, Marcel. The study of the diesel motor pollution using the fuzzy logic and fahp algorithm. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 455-462, 9 ref. bibliogr. Abstr.engl.

MUREŞAN, Sorina; BÂLC, Nicolae; POP, Dinu; FODOREAN, Ioan; RADU, Sever Adrian. Manufacture the parts by selective laser melting and their dimensional accuracy. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 207-210, 6 ref. bibliogr. Abstr.engl.

MUSCĂ, Ioana Alexandra; URSU-FISCHER, Nicolae; VASS, Andrea. Contribution to the study of human body behavior influenced by the mechanical vibration. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 463-468, 25 ref. bibliogr. Abstr.engl.

MUSCĂ, Ioana Alexandra; URSU-FISCHER, Nicolae; POPESCU, Diana Ioana; VASS, Andrea. Modeling the sound field inside an enclosure using "ray-tracing" method. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 3, 2012, p. 665-670, 13 ref. bibliogr. Abstr.engl.

NISTOR, Elena; ARGHIR, Mariana. Concepts on the assessment of sound pollution. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 469-472, 4 ref. bibliogr. Abstr.engl.

NISTOR, Elena; ARGHIR, Mariana. Study of noise pollution in the Bistrita Municipality. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 473-478, 2 ref. bibliogr. Abstr.engl.

NISTOR, Elena; LUMEI, Călin Vasile; ARGHIR, Mariana. Sound pollution study in the Bistrita Municipality. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 605-610, 2 ref. bibliogr. Abstr.engl.

PĂCURAR, Ancuța; GYENGE, Csaba; RAFA, Annamaria. Experimental research regarding the application of the predictive maintenance procedure within paper industry. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 215-220, 8 ref. bibliogr. Abstr.engl.

POP, Dinu-Ioan; BERCE, Petru; MUREŞAN, Sorina; FODOREAN, Ioan; FILIP, Adina. Experimental research in the field of SLM in order to reflect the machine work parameters for different materials and components. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 221-226, 7 ref. bibliogr. Abstr.engl.

POP, Dumitru; MORAR, Liviu; CÂMPEAN, Emilia; TĂNASE, Ionela. Optimization of the technological parameters in the milling process. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 227-232, 16 ref. bibliogr. Abstr.engl.

POP, Dumitru; MORAR, Liviu; CÂMPEAN, Emilia; TĂNASE, Ionela. Experimental modal analysis of a milling machine spindle-tool holder-cutter assembly. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 233-238, 15 ref. bibliogr. Abstr.engl.

POP, Dumitru; MORAR, Liviu; CÂMPEAN, Emilia; TĂNASE, Ionela. Design and execution of an experimental CNC stand for monitoring and changing in real time the milling parameters. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 487-492, 10 ref. bibliogr. Abstr.engl.

POP, Dumitru; MORAR, Liviu; CÂMPEAN, Emilia; TĂNASE, Ionela. Determining the milling technological parameters using the stability diagrams. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 493-498, 14 ref. bibliogr. Abstr.engl.

POPA, Iulia-Maria; SUCALĂ, Felicia. Experimental tests performed using three balls tribometer. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 889-892, 5 ref. bibliogr.

POPA, Iulia-Maria; SUCALĂ, Felicia. Experimental tests performed using three balls tribometer for polymer-metal contacts. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 893-896, 8 ref. bibliogr.

POPESCU, Adrian; IANCĂU, Horațiu; BERE, Paul; SIMON, Melinte. Experimental and theoretic research regarding optimization extrusion process for polymers reinforced fiber (PA 6.6-30%GF). În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 239-244, 10 ref. bibliogr. Abstr.engl.

PRECUP, Adriana Ioana; SUCALĂ, Maria Felicia. Experimental determination of angular velocity variation of a roller overrunning clutch. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 909-912, 3 ref. bibliogr.

RADU, Sever-Adrian; PĂCURAR, Ancuța; PĂCURAR, Răzvan. Manufacturing of the active mold elements and optimisation of the necessary material used for vacuum casting process. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 913-916, 13 ref. bibliogr.

RAFA, Annamaria; GYENGE, Csaba; PĂCURAR, Ancuța. Applied mathematical algorithm for grinding cylindrical gears whith profile modifications. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 249-252, 10 ref. bibliogr. Abstr.engl.

SCHONSTEIN, Claudiu; NEGREAN, Iuliu; KACSO, Kalman. Contributions to dynamic functions for a mobile robot. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 677-682, 7 ref. bibliogr. Abstr.engl.

SIMON, Vasile; POPA, Marcel; CONȚIU, Glad; BADIU, Ioan. Considerations regarding automation of a laser system. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 253-256, 4 ref. bibliogr. Abstr.engl.

STOICA, Alin; GHERMAN, Bogdan; VAIDA, Calin; PISLA, Doina; PLITEA, Nicolae. Inverse dynamic model of a new parallel robot used in minimally invasive surgery. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 543-548, 20 ref. bibliogr. Abstr.engl.

STOICA, Alin; PÎSLĂ, Doina. Geometric model and design of a new parallel robot used in minimally invasive surgery. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 2, 2012, p. 503-508, 22 ref. bibliogr. Abstr.engl.

STOICA, Laurențiu; ACHIMĂȘ, Gheorghe; BUDAI, Alina Florentina; SĂCARĂ, Alin. Numerical simulation of the forming process by reverse extrusion of small diameter tubes. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 1, 2012, p. 257-264, 10 ref. bibliogr. Abstr.engl.

STREMTAN, Florina-Anca; Garai, Massimo; LUPEA, Iulian. Micro-perforated panels and sound absorption. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 549-554, 8 ref. bibliogr. Abstr.engl.

SZILAGHYI, Andras Csaba; PÎSLĂ, Doina. Matlab/simulink simulation and validation of the kinematics model of a hybrid robot for minimally invasive surgery. În: Acta Tehnica Napocensis. Series: Applied Mathematics and

Mechanics. Cluj-Napoca, vol.55, nr. 2, 2012, p. 513-518, 16 ref. bibliogr. Abstr.engl.

ŞERBAN, Florica Mioara. Numerical simulation and analysis of the deep-drawing processes. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 917-922, 20 ref. bibliogr.

ŞTEOPAN, Andrei; IUHAS, Ioan; ŞTEOPAN, Mihai. Teleoperated modular snake robot. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 1, 2012, p. 269-272, 7 ref. bibliogr. Abstr.engl.

TOMA, Alexandra; CIUPAN, Cornel. Man machine interface ergonomic design related to human factors. În: Buletinul Institutului Politehnic din Iaşi. Secţia: Construcţii de Maşini. Iaşi, tomul LVIII (LXII), nr. 1, 2012, p. 191-196, 5 ref. bibliogr. Cota: P 2065/a

TRIFU, Horia; MORAR, Liviu. Monte Carlo simulation on integrated waste management systems – SMID - application. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 929-932, 4 ref. bibliogr.

VASS, Andrea; URSU-FISCHER, Nicolae; MUSCĂ, Ioana Alexandra. Determining the maximal relative motion speed considering the influence of two parameters, using a new optimization method. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 949-954, 14 ref. bibliogr.

VASS, Andrea; URSU-FISCHER, Nicolae; MUSCĂ, Ioana Alexandra. Contribution to the optimization of the relative motion on a vibrating conveyor. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 2, 2012, p. 519-522, 8 ref. bibliogr. Abstr.engl.

VEISS, Sorina Dana; ABRUDAN, Ioan. Getting on computerization of public administration. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 933-938, 10 ref. bibliogr.

VEISS, Sorina Dana; ABRUDAN, Ioan. Experimental studies based on the model of hofstede. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 939-948, 9 ref. bibliogr.

## FACULTATEA DE MECANICĂ

### Cadre didactice

- BODE, Florin; Năstase, Ilinca; Croitoru, Cristina. Rans models comparison for a cross-shaped jet flow with straight lobes. În: Scientific Journal of the Technical University of Civil Engineering. Seria: Mathematical Modelling in Civil Engineering. Bucureşti, vol.8, nr. 4, 2012, p. 14-19, 19 ref. bibliogr.
- CANDALE, Lucian; FILIP, Nicolae. Research regarding the conversion of the acoustic waves into electrical energy with electromagnetic transducers. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 581-588, 15 ref. bibliogr. Abstr.engl.
- CORDOŞ, Nicolae; BERE, Paul; NEMEŞ, Ovidiu. Effects of 2-ethylhexyl nitrate on auto-ignition and combustion qualities of rapeseed oil. În: Studia Universitatis Babeş-Bolyai. Chemia. Cluj-Napoca, vol.56 (LVI), nr.1, 2012, p. 175-184, 21 ref. bibliogr. Abstr.engl
- Croitoru, Cristina Verona; Năstase, Ilinca; BODE, Florin. Thermal comfort assesemnt for different ventilation strategies using a CFD approach. În: Scientific Journal of the Technical University of Civil Engineering. Seria: Mathematical Modelling in Civil Engineering. Bucureşti, vol.8, nr. 4, 2012, p. 36-44, 12 ref. bibliogr.
- Iatan, Elena; BODE, Florin; Năstase, Ilinca. Numerical study for turbulence characteristics in an open channel flow over a rough surface. În: Scientific journal of the Technical University of Civil Engineering. Seria: Mathematical Modelling on Civil Engineering. Bucureşti, vol.8, nr. 4, 2012, p. 102-109, 4 ref. bibliogr.
- Jişa, Vasile Sergiu Rareş; Aluţei, Alexandra; MÂNDRU, Dan. Three bellows actuation system. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 193-196, 10 ref. bibliogr. Abstr.engl.
- ORBAN, Magdalena. Grapho-analytical study on the relation between double-rotation and axonometry. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 737-740, 4 ref. bibliogr
- ȚĂLU, Ştefan. Generation of 3D shapes with superellipsoids, supertoroids, supercylinders and supercones. În: Journal of engineering Studies and Research (JERS). Bacău, vol.18, nr. 2, 2012, p. 135-139, ref. bibliogr

## **Doctoranzi, Studenți, Cercetători Științifici și Profesori Asociați**

ABRUDEAN, Adrian Vasile; MÂNDRU, Dan. Fem analysis applied in the design of assistive technology systems. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 335-338, 3 ref. bibliogr. Abstr.engl.

BĂLAN, Adina; LĂPUŞAN, Ciprian; DONCA, Radu; DRĂGHICI, Mihai; MĂTIEŞ Vistrian. Prefilters in the control of mechatronics systems. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 571-574, 11 ref. bibliogr. Abstr.engl.

BĂLAN, Adina; LĂPUŞAN, Ciprian; DONCA, Radu; DRĂGHICI, Mihai; MĂTIEŞ Vistrian. Identification for control of mechatronic systems using matlab/simulink and dspace platform. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 659-664, 12 ref. bibliogr. Abstr.engl.

CHERECHES, Ioan Aurel; BEJAN, Mircea. Determination of casting residual stresses În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 141-146, 6 ref. bibliogr. Abstr.engl.

DIUDEA, Mircea; Marciuc, Sergiu; BALAN, Radu; HODOR, Victor. CFD predictions regarding stabilities in roofing of the two "Logan" editions. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 837-840, 5 ref. bibliogr.

DIUDEA, Mircea; Marciuc, Sergiu; BALAN, Radu; HODOR, Victor. Gas-dynamics influences in running conditions of two vehicles. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 841-844, 5 ref. bibliogr.

DIUDEA, Mircea; Marciuc, Sergiu; BALAN, Radu; HODOR, Victor. CFD predictions regarding stabilities in roofing of the two "Logan" editions. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 651-658, 6 ref. bibliogr. Abstr.engl.

DOBRA, Vlad Tudor; BĂLAN, Mugur Ciprian; Mitre, Viorel. Comparison between temperature regime of a building with partial green and partial conventional roof. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 845-850, 26 ref. bibliogr.

LAKATOS, Daniel Gheorghe; BEJAN Mircea. The galvanizing. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 197-202, 11 ref. bibliogr. Abstr.engl.

MUREŞAN, Vlad; MATIŞ, Nicolae; PLEŞA, Alin. Thermal comfort analysis in a residential apartment. În: Scientific journal of the Technical University of Civil Engineering. Seria: Mathematical Modelling on Civil Engineering. Bucureşti, vol.8, nr. 4, 2012, p. 133-138, 14 ref. bibliogr.

POPESCU, George Liviu. Modeling as function of temperature of viscosity and density for blends of diesel fuel and thermally degraded polyethylene. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 4, 2012, p. 897-902, 9 ref. bibliogr.

SIMION, Mihaela; BOTEAN, Adrian Ioan; BEJAN, Mircea. Stiffness study of an industrial robot. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics. Cluj-Napoca, vol.55, nr. 3, 2012, p. 693-698, 5 ref. bibliogr. Abstr.engl.

SCURTU, Iacob-Liviu; ORBAN, Magdalena; CRIŞAN, Nour-Ioan. Comparative methods for determining the line of intersection between two planes În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 499-502, 7 ref. bibliogr. Abstr.engl.

VIDICAN, Ioan; LAKATOS, Daniel Gheorghe; CHERECHEŞ, Ioan Aurel; BEJAN Mircea. Changing coil springs characteristics by shot hardening and galvanizing. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 273-278, 8 ref. bibliogr. Abstr.engl.

VIDICAN, Ioan; BEJAN Mircea. Considerations regarding elastic elements from suspension of railway vehicles. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 1, 2012, p. 279-284, 5 ref. bibliogr. Abstr.engl.

## FACULTATEA INGINERIA MATERIALELOR ȘI A MEDIULUI

### Cadre didactice

- BATIN, M. N.; POPESCU, V. The influence of deposition time on optical properties of iron oxide films grown on glass substrate by Chemical Bath Deposition. În: Optoelectronics and Advanced Materials – Rapid Communications. Bucureşti, vol. 6, nr. 7-8, 2012, p. 727-729, 29 ref. bibliogr. Abstr.engl.
- BÎRLEA, Nicolae-Marius. The order behind chaos or the physics of business. În: Acta Tehnica Napocensis. Series: Environmental Engineering and Sustainable Development Entrepreneurship. Cluj-Napoca, vol.1, nr. 3, 2012, p. 39-44, 9 ref. bibliogr. Bilingual edition.
- Filip, Mișa Rafila; RUSU, Tiberiu. Investigation of the thermal degradation products of high density polyethylene and polypropylene using analytical techniques. În: Buletinul Institutului Politehnic din Iași. Secția: Chimie și Inginerie Chimică. Iași, tomul LVIII (LXII), nr. 2, 2012, p. 45-57, 17 ref. bibliogr. Cota: P 2061
- FRUNZĂ, Dan; SZILAGYI, Enikő; NISTOR, Liviu. Equal channel angular extrusion simulation using finite element method. În: Metalurgia. Bucureşti, vol. 64, nr. 4, 2012, p. 14-19, 14 ref. bibliogr. Abstr.engl.
- ILUTIU-VARVARA, D.A.; BRANDUSAN, L; PICA, E.M. Assessment of recycling potential of solid wastes from steelmaking in the electric arc furnaces. În: Buletinul Științific al Universității "POLITEHNICA" din Timișoara. Seria: Chimie și Ingineria Mediului. Timișoara, tomul 57(71), nr. 1, 2012, p. 15-18, 8 ref. bibliogr.
- MARCU, Teodora; NEMES, Ovidiu; TODEA, Milica; LEORDEAN, Dan; POPA, Catalin. Characterization of hydroxyapatite coatings on different pretreated Ti<sub>6</sub>Al<sub>7</sub>Nb alloy substrates. În: Studia Universitatis. Babes-Bolyai. Chemia. 2012. vol. 58, nr. 4, p. 109-119, 10 ref. bibliogr. Cotă: P 491
- MICLE, Valer; Sur, Ioana Monica. Zinc and copper extraction from polluted soils by in situ bioleaching. În: Acta Technica Napocensis. Seria: Environmental Engineering and Sustainable Development Entrepreneurship. Cluj-Napoca, vol.1, nr. 1, 2012, p. 49-56, 13 ref. bibliogr. Bilingual edition.
- NEMES, Ovidiu. Wood fibers surface quality influence on new materials properties. În: Acta Technica Napocensis. Seria: Environmental

Engineering and Sustainable Development Entrepreneurship Cluj-Napoca, vol 1, nr.2, 2012. p. 69-75, 16 ref. bibliogr. Cotă: PC – ATN.Eesde

NISTOR, Liviu. Filtrable cellular materials obtained by compaction sintering dissolution. În: Metalurgia. Bucureşti, nr. 1, 2012, p. 19-26, 16 ref. bibliogr.

PASCUTA, P; Ştefan, R; BOSCA, M; POP, L; CULEA, E. FTIR and UV-VIS spectroscopic investigation of erbium-zinc-borate glass ceramics. În: Studia Universitatis Babeş-Bolyai. Seria: Physica. Cluj-Napoca, vol. 57 nr.1, 2012, p.59-66, 35 ref. bibliogr.

Pop, A.V.; Stiufluc, G; POP, V; Lung, C. Electrical resistivity and excess of conductivity in bulk ( Bi-Pb) 2223 superconductors. În: Studia Universitatis Babeş-Bolyai. Series: Physica, Cluj-Napoca, vol.LVII, nr. 2, 2012, p. 41-47 17 ref. bibliogr. Cota: P 494

POP, Mariana; FRUNZĂ, Dan; NEAG, Adriana; PEVEL,Codruţa. Researches on forward extrusion of lead alloy. În: Metalurgia. Bucureşti, nr. 1, 2012, p. 10-14, 9 ref. bibliogr.

POP, Mariana; NEAG, Adriana. Dieless drawing – a nonconventional plastic deformation process. În: Metalurgia. Bucureşti, nr. 2, 2012, p. 5-9, 21 ref. bibliogr.

SOPORAN, Vasile Filip. The analysis of the entrepreneurship framework and the needs of Romania. În: Acta Technica Napocensis. Seria: Environmental Engineering and Sustainable Development Entrepreneurship. Cluj-Napoca, vol.1, nr. 1, 2012, p. 11-24, 4 ref. bibliogr. Bilingual edition.

THALMAIER, György; JUMATE, N; VIDA-SIMITI, I; BUKKOSI,I. Ni-Ti-Nb tapes obtained by rapid solidification technique. În: Buletinul Institutului Politehnic din Iaşi. Secţia: Chimie şi Inginerie Chimică. Iaşi, tomul LVIII (LXII), nr. 2, 2012, p. 105-111, 16 ref. bibliogr. Cota: P 2061

### **Doctoranți, Studenți, Cercetători Științifici și Profesori Asociați**

BĂRĂIAN, Marius; ARGHIR, George; PETEAN, Ioan. Aspects concerning the crystal lattice behavior of austenitic steel at low temperature. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 339-342, 8 ref. bibliogr. Abstr.engl.

BOGATAN (Pop), Cornelia; NASUI, Mircea; Jr. PETRISOR, Traian; GABOR,Mihai; RISTOIU,Tania; CIONTEA, Lelia; PETRISOR, Traian. On the way of growing  $YBa_2Cu_3O_7$  superconducting thin films from a fluorin-free water based propionate precursor solution. În: Studia Universitatis. Babes-Bolyai. Chemia. 2012. vol. 58, nr. 4, p. 13-22, 9 ref. bibliogr. Cotă: P 491

BORLEA (TIUC), Ancuța; RUSU, Tiberiu; Ionescu, Silviu. Research on obtaining soundproof materials from wastes. În: Acta Tehnica Napocensis. Series: Environmental Engineering and Sustainable Development Entrepreneurship. Cluj-Napoca, vol.1, nr. 3, 2012, p. 13-20, 12 ref. bibliogr. Bilingual edition.

BORLEA (TIUC), Ancuța; RUSU, Tiberiu; VASILE, Ovidiu; GHEORGHE , Ana. Determination of antivibrational properties of some materials made from wastes. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 373-378, 4 ref. bibliogr. Abstr.engl.

BERE, Paul; ARGHIR, George; PETEAN, Ioan; SUCIU, Cristian. Nanocrystalline state of FeCo50 obtained in a planetary ball mill. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 349-354, 14 ref. bibliogr. Abstr.engl.

BÜKKÖSI, Loránd; VIDA-SIMITI, Ioan. Porous Ni supports for thin film membranes. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 819-822, 15 ref. bibliogr.

BÜKKÖSI, L; THALMAIER, Gy.; Codrean, C.; PĂSCUȚĂ, P.; VIDA-SIMITI, I. Obtaining and characterization of Ni-Zr type amorphous tapes. În: Optoelectronics and Advanced Materials: Rapid Communications. Măgurele-Ilfov, vol.6, nr. 9-10, 2012, p. 814-817, 20 ref. bibliogr.

Chertes, V; ORBAN, R.L.; VIDA-SIMITI, I; SALOMIE, D. Effects of severe plastic deformation on microstructure and mechanical properties of phosphorous sintered steel parts. În: Journal of Optoelectronics and Advanced Materials. Măgurele-Ilfov, vol.14, nr. 5-6, 2012, p. 551-556, 24 ref. bibliogr. Abstr.engl.

COCIȘ, Emanuela Adina; SOPORAN, Vasile Filip; Ilea, Petru; Imre-Lucaci, Florica; SOPORAN, Bianca Mihaela; BERE, Paul; NEMEŞ, Ovidiu. Characterisation of generated ash from hazardous waste incineration. În: Studia Universitatis Babeș-Bolyai. Series: Chemia,Cluj-Napoca, vol.LVII, nr. 2, 2012, p. 147-156, 20 ref. bibliogr. Cota: P 491

CORA, Vleriu Sebastian; VIDA-SIMITI, Ioan; BRÂNDUŞAN, Liviu. Experimental research regarding the production of cutting tools through PIM technology. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 387-390, 11 ref. bibliogr. Abstr.engl.

CORA, V. S.; BRÂNDUŞAN, L; VIDA-SIMITI, I; THALMAIER, Gy. Preliminary sintering study of powder injection molded WC/Co parts. În:

Optoelectronics and Advanced Materials: Rapid Communications. Măgurele-Ilfov, vol.6, nr. 9-10, 2012, p. 941-944, 18 ref. bibliogr.

IURIAN, Amalia Mihaela; Perhaita, Ioana; Septelean, Raluca; Saponar, Alina. Wood fibers characterization by TGA analysis. În: Studia Universitatis Babes-Bolyai. Chemia. 2012. vol. 58, nr.1, p. 141-149, 20 ref. bibliogr. Cotă: P 491

MOLEA, Andreia; POPESCU, Violeta; UNGUREŞAN, Mihaela Ligia. Mathematical modelling of photocatalytic activity of TiO<sub>2</sub> powders obtained by chemical precipitation. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 437-446, 20 ref. bibliogr. Abstr.engl.

PATO, R.A.; GABOR, M.S.; PETRIŞOR, T. jr.; NEGREA, G; PETRIŞOR, T. . Epitaxial TiN thin films grown on biaxially textured Ni-W substrates. În: Studia Universitatis Babeş-Bolyai. Seria: Physica. Cluj-Napoca, vol. 57 nr.1, 2012, p.67-75, 8 ref. bibliogr.

PATO, Robert; PETRIŞOR, Traian jr.; GABOR, Mihai; NEGREA, Gavril. Low temperature sputter deposition of nanostructured TiN thin films. În: Metalurgia Internaţional. Bucureşti, vol. XVII, nr. 9, 2012, p. 211-215, 16 ref. bibliogr. Abstr.engl.

Pech, Johann; ZIRBO, Gheorghe. Research on improving the properties of the AlSi12MgFe alloy by complex treatment of the melt. În: Metalurgia Internaţional. Bucureşti, vol.XVII, nr. 8, 2012, p. 43-46, 6 ref. bibliogr. Abstr.engl.

POP, Dan Atanasiu; MOCANU, Gabriela Raluca; ARGHIR, George. On the algorithmic behavior of complex physical systems. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 479-482, 7 ref. bibliogr. Abstr.engl.

POP, Dan Atanasiu; MOCANU, Gabriela Raluca; ARGHIR, George. Object oriented programming (OOP) behavior of physics particles. În: Acta Tehnica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 483-486, 7 ref. bibliogr. Abstr.engl.

POPA, Mihaela; Mesaros, Amalia; MEREU, Raluca; Perhaita, Ioana; CIONTEA, Lelia; PETRISOR, Traian. Thermal decomposition and kinetics of the precursors for obtaining ZnO and tea modified ZnO nanopowders. În: Studia Universitatis. Babes-Bolyai. Chemia. 2012. vol. 58, nr. 4, p. 167-173, 17 ref. bibliogr. Cotă: P 491

POPA, Mihaela. Acetylacetone used as a complexing agent in ZnO precursor solution. În: Buletinul Institutului Politehnic din Iaşi. Secţiunea: Chimie şi Inginerie Chimică. Iaşi, tomul LVIII (LXII), nr. 2, 2012, p. 157-161, 7 ref. bibliogr. Cota: P 2061

RIȚI-MIHOC, Emilian-Narcis; RIȚI-MIHOC, Emil. Research on microwave calcination of sewage sludge. În: Acta Technica Napocensis. Seria: Environmental Engineering and Sustainable Development Entrepreneurship Cluj-Napoca, vol 1, nr.2, 2012. p. 65-68, 3 ref. bibliogr. Cotă: PC – ATN.Eesde

SUCIU, Cristian; ARGHIR, George; BERE, Paul. Hard chemical constituent evidence in ferromanganese alloyed powder FeMn80C20. În: Studia Universitatis. Babes-Bolyai. Chemia. 2012. vol. 58, nr. 3, p. 259-266, 18 ref. bibliogr. Cotă: P 491

SUCIU, Cristian; ARGHIR, George; PETEAN, Ioan; POPA, Claudiu. Heat treatment influence on sintered manganese steels under abrasive wear. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții de Mașini. Iași, tomul LVIII (LXII), nr. 2, 2012, p. 123-128, 7 ref. bibliogr. Cota: P 2065/a

SUCIU, Cristian; ARGHIR, George; PETEAN, Ioan; POPA, Claudiu. Effect of sintering temperature on high alloying manganese steels subjected to abrasive wear. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții de Mașini. Iași, tomul LVIII (LXII), nr. 2, 2012, p. 117-122, 5 ref. bibliogr. Cota: P 2065/a

SUCIU, Cristian; ARGHIR, George; PETEAN, Ioan; FRUNZĂ, Dan; BRÂNDUȘAN, Liviu. Green density modelling of iron and ferromanganese mixed powders. În: Acta Technica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 4, 2012, p. 923-928, 9 ref. bibliogr.

SUCIU, Cristian; ARGHIR, George; PETEAN, Ioan. Manganese addition influence on the density, size, compactibility, and porosity of mixed iron-manganese sintered compacts. În: Acta Technica Napocensis. Series: Applied Mathematics and Mechanics Cluj-Napoca, vol.55, nr. 2, 2012, p. 509-512, 6 ref. bibliogr. Abstr.engl.

SZILÁGYI, Enikö. Effect of movable wall die on equal channel angular extrusion. În: Metalurgia. București, nr. 1, 2012, p. 15-18, 6 ref. bibliogr. Abstr.engl.

SZILÁGYI, Enikö; NISTOR, Liviu. Physical modelling of plastic deformation zone in equal channel angular extrusion. În: Metalurgia. București, nr. 3, 2012, p. 34-39, 10 ref. bibliogr. Abstr.engl.

VAC (Soporani), Michaela Bianca; SOPORAN, Vasile Filip; COCIS, Emanuela Adina; Batrinescu, Gheorghe; NEMES, Ovidiu. Gas analysis of municipal landfill emissions. În: Studia Universitatis. Babes-Bolyai. Chemia. 2012. vol. 58, nr.3, p. 23-30, 4 ref. bibliogr. Cotă: P 491

## Departamentul pentru Pregatirea Personalului Didactic

BAL, Carmen; Iuhos, Carmen Ioana; BAL, Nicolae. Research on experimental heat effects in a flow with harmonic drive installation. În: Buletinul Institutului Politehnic din Iași. Secția: Construcții de Mașini. Iași, tomul LVIII (LXII), nr. 1, 2012, p. 23-28, 4 ref. bibliogr. Cota: P 2065/a