

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

**2019**

**FACULTATEA DE ARHITECTURĂ ȘI URBANISM**

**Cadre didactice**

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

**FACULTATEA DE AUTOMATICĂ ȘI CALCULATOARE**

**Cadre didactice**

BIROU, Marius Mihai. Quantitative results for the convergence of the iterates of some King type operators. În: Studia Universitatis Babes-Bolyai, Mathematica, vol. 64, nr. 2, 2019, p. 183-196, 26 ref. bibliogr. Cotă: P 496

DANCS, Madalina; HODIS, Sever. Iterates of positive linear operators on Bauer simplices. În: Studia Universitatis Babes-Bolyai, Mathematica, vol. 64, nr. 3, 2019, p. 331-338, 35 ref. bibliogr. Cotă: P 496

DULF, Eva-H; Vodnar, Dan C; Dulf, Francisc V. Modeling the L(+) lactic acid production via *R. oryzae* NRRL 395 fermentation on biodiesel crude glycerol. În: Studia Universitatis Babes-Bolyai, Chemia, vol. 64, nr. 2, tom I, 2019, p. 11-21, 16 ref. bibliogr. Cotă: P 491

GAVREA, Ioan; OPRIS, Adonia-Augustina. Modified Kantorovich-Stancu operators (II). În: Studia Universitatis Babes-Bolyai, Mathematica, vol. 64, nr. 2, 2019, p. 197-205, 5 ref. bibliogr. Cotă: P 496

MIHOLCA, Mihaela. A generalized Ekeland's variational principle for vector equilibria. În: Studia Universitatis Babes-Bolyai, Mathematica, vol. 64, nr. 4, 2019, p. 581-592, 21 ref. bibliogr. Cotă: P 496

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

HODIS, Laura; MADUTA, Alexandra. Choquet boundary for some subspaces of continuous functions. În: Studia Universitatis Babes-Bolyai, Mathematica, vol. 64, nr. 3, 2019, p. 339-347, 14 ref. bibliogr. Cotă: P 496

# FACULTATEA DE ELECTRONICĂ, TELECOMUNICAȚII ȘI TEHNOLOGIA INFORMAȚIEI

## Cadre didactice

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

KIREI, Botond Sandor; CHEREJA, Verginia-Iulia-Maria; HINTEA, Sorin; TOPA, Mariana Dana. PAELib: A VHDL library for area and power dissipation estimation of CMOS logic circuits. În: Advances in Electrical and Computer Engineering, Suceava, vol. 19, 2019, p. 9-16, 24 ref bibliogr. Cotă: P 1531

PLESA, Cosmin-Sorin; Dimitriu, Bogdan; NEAG, Marius. Design options for current limit and power limit circuit protections for LDOs. În: Advances in Electrical and Computer Engineering, Suceava, vol. 19, 2019, p. 9-16, 24 ref bibliogr. Cotă: P 1531

## FACULTATEA DE INGINERIE ELECTRICĂ

### Cadre didactice

CRISTEA, Ciprian; CRISTEA, Maria; BIROU, Iulian; PICA, Constantin-Sorin; TIRNOVAN, Radu-Adrian; SERBAN, Florica Mioara; STOENOIU, Carmen-Elena. Techno-economic analysis of a grid-connected residential photovoltaic system: a Romanian case study. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 543-550, 25 ref. bibliogr. Cotă: P 2011

Scurtu, Florina; TEBREAN, Bogdan; Mariann-Arkosi, Kinga, Ionele, Adrian; Silaghi-Dumitrescu, Radu. Hemoglobin-albumin co-polymers for blood substitutes: increasing the reproducibility of the polymerization reaction. În: Studia Universitatis Babes-Bolyai, Chemia, vol. 64, nr. 2, tom II, 2019, p. 421-434, 18 ref. bibliogr. Cotă: P 491

SZASZ, Csaba; SINCA, Razvan. The nontrivial problem of matching in redundant digital systems. În: Journal of Electrical and Electronics Engineering, Oradea, vol. 12, 2019, p. 51-56, 3 ref bibliogr. Cotă: P 2927

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

## FACULTATEA DE CONSTRUCȚII

### Cadre didactice

MOGA, Catalin; SUCIU, Mircea; DRAGAN, Delia; NERISANU Raluca. Efficient connection of cross girders of arch steel road bridges. În: Buletinul Institutului Politehnic din Iasi: Sectia: Constructii. Arhitectura, Iasi, vol. 65, nr. 2, 2019, p. 45-63, 6 ref. bibliogr. Cotă: P 2064

MOGA, Catalin; SUCIU, Mircea; PONDICHI-ALB, Claudia. Considerations upon the overloading of prestressed bolts in tensile forced connections. În: Buletinul Institutului Politehnic din Iasi: Sectia: Constructii. Arhitectura, Iasi, vol. 65, nr. 1, 2019, p. 168-182, 5 ref. bibliogr. Cotă: P 2064

STANCA, Simona. State-of-the-art of the process of returning to function of aged and/or not-in-use buildings. În: Buletinul Institutului Politehnic din Iasi: Sectia: Constructii. Arhitectura, Iasi, vol. 65, nr. 1, 2019, p. 81-90, 11 ref. bibliogr. Cotă: P 2064

Popa, Larisa-Georgiana; BRUMARU, Mariana. The energy performance of adaptive insulation applied to an office building. În: Buletinul Institutului Politehnic din Iasi: Sectia: Constructii. Arhitectura, Iasi, vol. 65, nr. 4, 2019, p. 71-79, 4 ref. bibliogr. Cotă: P 2064

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

TERE, Sergiu-gheorghe; HEGHES, Bogdan; CONSTANTINESCU, Horia; Toader, Traian Nicu. Study on the rigidity of a precast concrete frame with and without rigidization with corrugated sheets.. În: Buletinul Institutului Politehnic din Iasi: Sectia: Constructii. Arhitectura, Iasi, vol. 65, nr. 4, 2019, p. 35-42, 4 ref. bibliogr. Cotă: P 2064

## **FACULTATEA DE INSTALAȚII**

**Cadre didactice**

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

## FACULTATEA DE CONSTRUCȚII DE MAȘINI

### Cadre didactice

- ANTAL, Tiberiu Alexandru. A Java client-server model to solve the forward and the inverse robot kinematics. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 13-18, 21 ref. bibliogr. Cotă: P 2011
- ANTAL, Tiberiu Alexandru. Using coffeecup site designer and bootstrap framework to fast design a carousel. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 7-12, 7 ref. bibliogr. Cotă: P 2011
- ARGHIR, Mariana; MACOVEI, Alexandra Maria; DETESAN, Ovidiu Aurelian. Contribution to the dynamic study of the mill with horizontal axis. Part II: Differential equations system. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 223-230, 23 ref. bibliogr. Cotă: P 2011
- BĂRBÎNȚĂ, Aurel. Efets et enjeux de l'évaluation des apprentissages et des compétences en classe de FLE. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 74-81, 11 ref. bibliogr. Cotă: P 1290
- BĂRBÎNȚĂ, Aurel. Efets et enjeux de l'évaluation des apprentissages et des compétences en classe de FLE. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 74-81, 11 ref. bibliogr. Cotă: P 1290
- BULGARU, Cristina. Dezvoltarea aptitudinilor de comunicare nonverbală la studenții Universității Tehnice din Cluj-Napoca. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 64-74, 4 ref. bibliogr. Cotă: P 1290
- BULGARU, Cristina. Évaluer la qualité de la communication interne dans les organisations. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 9-19, 2 ref. bibliogr. Cotă: P 1290
- COVACIU, Florin; Iordan, Anca-Elena. Designing and building a serial robotic arm with four degrees of freedom. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 317-323, 13 ref. bibliogr. Cotă: P 2011

- CRÎȘAN, Adina; NEGREAN, Iuliu. The jacobian matrix based on the transfer matrices. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 127-134, 13 ref. bibliogr. Cotă: P 2011
- CRISTEA, Aurora Felicia. Theoretical interpretations concerning the stability of the human hand-arm system at low frequencies, system comparative with a mechanical system. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 405-410, 8 ref. bibliogr. Cotă: P 2011
- CRISTEA, Aurora Felicia. Influencing of the vibrations effects to the hand-arm system. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 121-126, 4 ref. bibliogr. Cotă: P 2011
- CRISTEA, Aurora Felicia. Transmissibility vibrations about hand-arm system when used a simulating vibration attenuation. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 115-120, 8 ref. bibliogr. Cotă: P 2011
- COVACIU, Florin; FILIP, Daniel. Design and manufacturing of a 6 degree of freedom robotic arm. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p.107-114, 14 ref. bibliogr. Cotă: P 2011
- COVACIU, Florin. Control and actuation system of a six degrees of freedom robotic arm. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 99-106, 9 ref. bibliogr. Cotă: P 2011
- DETEȘAN, Ovidiu-Aurelian; CRÎȘAN, Adina Veronica. A theoretical approach on determining the geometrical errors in case of articulated robot structures. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 63-70, 16 ref. bibliogr. Cotă: P 2011
- DETEȘAN, Ovidiu-Aurelian; CRÎȘAN, Adina Veronica. Geometric model of fanuc LR Mate 100iR considering the dimensional and generalized coordinates errors. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 57-62, 12 ref. bibliogr. Cotă: P 2011
- FILIP, Daniel; COVACIU, Florin; SÂRB, Anca; TIMOTEI, Sanda. Building a project team according to the time allocated and the number relationships for the successful completion of a project. În: Acta Technica Napocensis:

Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 141-148, 10 ref. bibliogr. Cotă: P 2011

FIRESCU, Violeta; GAȘPAR, Mirabela. Comunicarea, “Armă”a leadership-ului – o analiză în contextul sistemelor de management = Communication, a leadership weapon – analysis carried out in the context of management systems. În: Revista de Management și Inginerie Economică = Review of Management and Economic Engineering, Cluj-Napoca, vol. 18, nr. 3, 2019, p. 423-432, 7 ref. bibliogr. Cotă: P 3147

FORNA, Adina-Irina. Enseigner l’impératif et l’infinifitif dans la classe de français sur objectifs spécifiques. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 67-73, 5 ref. bibliogr. Cotă: P 1290

FORNA, Adina-Irina. Limba română pentru străini: tipuri de exerciții propuse pentru exprimarea scrisă. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 15-24, 7 ref. bibliogr. Cotă: P 1290

FRĂȚILĂ, Domnița; TRIF, Adrian; POPAN, Alexandru. Study on chips’ morphology at conventional and environmental-friendly turning of 42CrMo4 alloyed steel. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 77-86, 35 ref. bibliogr. Cotă: P 2011

GHERMAN, Bogdan; BURZ, Alin; JUCAN, Daniela; Bara, Fidelian; Carbone, Giusepe; PISLA, Doina. Upper limb rehabilitation with a collaborative robot. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 323-330, 17 ref. bibliogr. Cotă: P 2011

GHINEA, Rares; TOMPA, Vasile; BUNA, Zsolt; ROZSOS, Raul; POPESCU, Daniela; Firea, Ciprian. Using image processing to authenticate artwork. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 601-606, 16 ref. bibliogr. Cotă: P 2011

GLIGOR, Gheorghe. Aspects of the roughness of parts of lead and aluminium obtained by combined extrusion to cold. În: Academic Journal of Manufacturing Engineering, Timisoara, vol. 17, nr. 4, 2019, p. 26-29, 2 ref. bibliogr. Cotă: P 3078/a

LITERAT, Ruxanda. Perspectives on sociocultural communication today. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 57-63, 14 ref. bibliogr. Cotă: P 1290

- LITERAT, Ruxanda. Metatheoretical aspects of communication for communication practice. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 20-27, 15 ref. bibliogr. Cotă: P 1290
- LUPEA, Iulian. Sound absorption coefficient measurement set-up by using labview and a simple impedance tube. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 525-530, 10 ref. bibliogr. Cotă: P 2011
- LUPEA, Iulian. The length of flexible coiled tubes by observing the sound propagation time. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 521-524, 8 ref. bibliogr. Cotă: P 2011
- LUPEA, Iulian. The length of flexible coiled tubes measured by using a sound card and FRF. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 385-388, 7 ref. bibliogr. Cotă: P 2011
- MĂLUȚAN, Cristina Ana. Exercices structuraux pour le français scientifique et technique. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 46-52, 5 ref. bibliogr. Cotă: P 1290
- MĂLUȚAN, Cristina Ana. Activități didactice vizând componenta ludică a învățării limbii române ca limbă străină din cadrul anului pregătitor de la Universitatea Tehnică din Cluj-Napoca. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1, 2019, p. 25-30, 7 ref. bibliogr. Cotă: P 1290
- MERA, Mircea. About a strategy for modification the teeth profile of cylindrical gears. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 563-568, 5 ref. bibliogr. Cotă: P 2011
- MOCAN, Bogdan; FULEA, Mircea; Farcas, Anca Daniela; Mocan, Mihaela. Exoskeleton robotic systems used as a tool for cardiac rehabilitation. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 411-416, 25 ref. bibliogr. Cotă: P 2011
- MOCAN, Bogdan; FULEA, Mircea; Mocan, Mihaela; Bintintan, Vasile. A robotic helping hand to the detection of small colorectal tumours in laparoscopic surgery. În: Acta Technica Napocensis: Series: Applied

Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 91-98, 22 ref. bibliogr. Cotă: P 2011

MUREȘAN, Carmen; Pop, Alexandra -Lucia. Dual VET between educational offer and choice of study in Cluj county – the perspective of middle schools. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 31-38, 7 ref. bibliogr. Cotă: P 1290

MUREȘAN, Carmen; Pop, Alexandra -Lucia. Învățământul dual în Județul Cluj între implementare și retenția de absolvenți - perspectiva operatorilor economici = Dual vet in cluj country between implementation and retention of graduates – the companies' perspective. În: Revista de Management și Inginerie Economică = Review of Management and Economic Engineering, Cluj-Napoca, vol. 18, nr. 3, 2019, p. 455-464, 10 ref. bibliogr. Cotă: P 3147

NEAMTU, Calin; Ion, Anghel; Chiojdoiu, Alexandru Florin; BUNA, Zsolt; Trofin, Aurel; DRAGOMIR, Diana. Automatic fire extinguishing system using „T”, „Z”, „O” letters technique based on a parallel structure.. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 389-396, 15 ref. bibliogr. Cotă: P 2011

NEGOESCU, Monica. Technical vocabulary: How is it learned? How is it taught?. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 75-81, 11 ref. bibliogr. Cotă: P 1290

NEGREAN, Iuliu. Formulations about elastodynamics in robotics. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 237-250, 32 ref. bibliogr. Cotă: P 2011

NEGREAN, Iuliu; CRIȘAN, Adina. Matrix exponentials in robot elastokinematics. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 33-40, 30 ref. bibliogr. Cotă: P 2011

NEGREAN, Iuliu; CRIȘAN, Adina. Formulations on accuracy in advanced robot mechanics. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 23-32, 7 ref. bibliogr. Cotă: P 2011

OLT, Maria-Cristina. Education without stress or education about stress. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 40-45, 8 ref. bibliogr. Cotă: P 1290

- OLT, Maria-Cristina; SZASZ, Maria Augusta. From small beginnings to sustainable results. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 51-56, 4 ref. bibliogr. Cotă: P 1290
- OTEL, Calin Ciprian. Using the linear programming to determine the production plan of the enterprise. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 455-460, 12 ref. bibliogr. Cotă: P 2011
- PANC, Nicolae; DUDESCU, Mircea Cristian; HANCU, Liana; POPESCU, Adrian. Asing influence upon some mechanical properties of silicon rubber. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 331-336, 9 ref. bibliogr. Cotă: P 2011
- PANC, Nicolae; CONTIU, Glad; BOCANET, Vlad; Thurn, Laura; SABAU, Emilia. The influence of cutting technology on surface wear hardness. În: Academic Journal of Manufacturing Engineering, Timisoara, vol. 17, nr. 3, 2019, p. 205-210, 7 ref. bibliogr. Cotă: P 3078/a
- POLICSEK, Cecilia. Reflections on the reference to education within the discourse of legitimation of the "Smart City". În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 28-39, 29 ref. bibliogr. Cotă: P 1290
- POLICSEK, Cecilia; OLT, Maria -Cristina. Foreign language teaching and education for human rights. The beginning of a teaching practice. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 39-45, 17 ref. bibliogr. Cotă: P 1290
- SABAU, Emilia; POPESCU, Adrin; MIRON-BORZAN, Cristina -Stafana; PANC, Nicolae. Mathematical regression model of unidirectional glass fibre reinforced polymer composites. În: Academic Journal of Manufacturing Engineering, Timisoara, vol. 17, nr. 3, 2019, p. 108-112, 12 ref. bibliogr. Cotă: P 3078/a
- ȘERDEAN, Florina; CRIȘAN, Adina. A benchmark study of KGCS optimization algorithm. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 163-168, 15 ref. bibliogr. Cotă: P 2011
- SCHONSTEIN, Claudiu. Considerations about matrix exponentials in geometrical modeling of the robots. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 337-342, 8 ref. bibliogr. Cotă: P 2011

- TRIF, Adrian; POPAN, Alina-Ioana. Study on cutting forces and surface quality turning C45 steel. În: Academic Journal of Manufacturing Engineering, Timisoara, vol. 17, nr. 4, 2019, p. 182-190, 38 ref. bibliogr. Cotă: P 3078/a
- TRIPA, Mihai; SORCOI, Dorina; FLORESCU, Iulia; SORCOI, Lidia; PAUNESCU, Daniela; SUCIU, Mihaela. Contributions on the analytical calculus of simple dental bridge assimilated with a beam embedded at both ends by transfer-matrix method (TMM). În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 573-576, 15 ref. bibliogr. Cotă: P 2011
- TRIPA, Mihai; SORCOI, Dorina; FLORESCU, Iulia; SORCOI, Lidia; PAUNESCU, Daniela; SUCIU, Mihaela. About the study of frames by transfer-matrix method (TMM)-similarity of dental bridges with frames. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 569-572, 12 ref. bibliogr. Cotă: P 2011
- TRIPON, Mona. Aktionsforschung und Selbstbeobachtung in der Unterrichtspraxis. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 3-4, 2019, p. 82-91, 5 ref. bibliogr. Cotă: P 1290
- TRIPON, Mona. Methoden zur Verbesserung der Unterrichtsqualität: Aktionsforschung und Forschendes Lernen. În: Acta Technica Napocensis: Series: Languages for Specific Purposes, Cluj-Napoca, vol. 19, nr. 1, 2019, p. 57-66, 8 ref. bibliogr. Cotă: P 1290
- URSR-FISCHER, Nicolae. An alternative method to performer the ellipse fitting to 2D data. In: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 397-404, 28 ref. bibliogr. Cotă: P 2011
- URSR-FISCHER, Nicolae; POPESCU, Diana Ioana; MOHOLEA, Iuliana Fabiola. The two stages circle fitting method. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 265-272, 20 ref. bibliogr. Cotă: P 2011
- URSR-FISCHER, Nicolae. Considerations about algebraic fitting of an ellipse to scattered 2D data. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 257-264, 23 ref. bibliogr. Cotă: P 2011

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

- ALBUS, Alex Denis; ARGHIR, Mariana. Experimental study on the equilibrium and stability of a sportif on the mobil platform. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 343-350, 11 ref. bibliogr. Cotă: P 2011
- ALEXANDRESCU, Ioan Marius; COTETIU, Radu Iacob; HARAGAS, Simion. Research on the load bearing force in narrow sliding radial bearings ( $L < 0.7 D$ ) operating in shock conditions. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 299-308, 10 ref. bibliogr. Cotă: P 2011
- BUGNAR, Florin; NEDEZKI, Claudiu Mihai; MOHOLEA, Iuliana Fabiola. Dynamic model of 6R articulated industrial robot using Newton-Euler formulation. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 169-174, 21 ref. bibliogr. Cotă: P 2011
- BUCUR, Alexandru; LĂZĂRESCU, Lucian; POP, Grigore Marian; ACHIMAȘ, Gheorghe; Gebhardt, Andreas. Tribological performance of biodegradable lubricants under different surface roughness of tools. În: Academic Journal of Manufacturing Engineering, Timișoara, vol. 17, nr. 1, 2019, p. 172-178, 9 ref. bibliogr. Cotă: P 3078/a
- CHIS, Marius; ACHIMAS, Gheorghe; TRIF, Adrian; Kralikova, Ruzena. Lubrication, friction and wear processes at gas-driven stationary engines. În: Academic Journal of Manufacturing Engineering, Timisoara, vol. 17, nr. 2, 2019, p. 77-84, 8 ref. bibliogr. Cotă: P 3078/a
- COSTE, Vlad-Mihai; Campbell, R Ian; BALC, Nicolae. Study of the influencing factors within the CNC dry milling of the aluminum parts. În: Academic Journal of Manufacturing Engineering, Timisoara, vol. 17, nr. 2, 2019, p. 165-173, 12 ref. bibliogr. Cotă: P 3078/a
- COTOVAN, Ioan-Claudiu; LUPEA, Iulian. The young modulus estimation by correlating fea and ema for an electronic motor test rig. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 483-488, 12 ref. bibliogr. Cotă: P 2011
- COTOVANU, Ioan-Claudiu; LUPEA, Iulian. Considerations on the modal analysis and vibrations simulation of induction motors. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 351-362, 24 ref. bibliogr. Cotă: P 2011

- CRIȘAN, Oana-Adriana; CRIȘAN, Horea-George; Dan, Viorel; Șerdean, Florina Maria. Approaching the circular economy in România-a higher alternative to the linear economy. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 193-200, 13 ref. bibliogr. Cotă: P 2011
- DOROBANȚU, Olga-Mihaela; MARIAN, Liviu. Considerații privind valoarea adăugată în serviciile medicale = Considerations concerning the value added in health care. În: Revista de Management și Inginerie Economică = nr. 3, 2019, p. 465-477, 4 ref. bibliogr. Cotă: P 3147
- GIURGIU, Anca Mihaela; Ștefănescu, Daniela MARIAN, Liviu Onoriu. Opinia mediului economic despre rolul camerei de comerț – studiu de caz în Județul Mureș = The company's opinion about the chamber's of commerce role – case study in Mures country. În: Revista de Management și Inginerie Economică = Review of Management and Economic Engineering, Cluj-Napoca, vol. 18, nr. 3, 2019, p. 490-509, 9 ref. bibliogr. Cotă: P 3147
- GIURGIU, Anca Mihaela; MARIAN, Liviu Onoriu. Percepția rolului camerelor de comerț în economie și societate = Perception about the chamber's of commerce role in economy and society. În: Revista de Management și Inginerie Economică = Review of Management and Economic Engineering, Cluj-Napoca, vol. 18, nr. 3, 2019, p. 392-401, 7 ref. bibliogr. Cotă: P 3147
- IORDAN, Anca-Elena; COVACIU, Florin. Efficient method to solve the guarini puzzle generalization using bipartite graphs. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 157-162, 19 ref. bibliogr. Cotă: P 2011
- JUGRESTAN, Claudiu Ioan; POPA, Marcel Sabin; Sattel, Stefan; Veres, Ovidiu Virgil; Contiu, Glad. Experimental studies on the influence of cutting parameters on delamination at cfrp drilling using taguchi method. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 497-502, 13 ref. bibliogr. Cotă: P 2011
- MACOVEI, Alexandra Maria; ARGHIR, Mariana. Contribution to the dynamic study of the mill with horizontal axis . Part I: Preliminary study. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 363-366, 21 ref. bibliogr. Cotă: P 2011
- RUSU, Delia. The impact of computer-related terms on verbal and written communication. În: Acta Technica Napocensis: Series: Languages for

Specific Purposes, Cluj-Napoca, vol. 19, nr. 1-2, 2019, p. 82-90, 14 ref. bibliogr. Cotă: P 1290

SCĂRLĂTESCU, Dumitru Daniel; Vlase, Sorin. CRIȘAN, Adina; Modrea, Arina. Traction tests to determine the behavior of the materials used in water supply networks. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 175-182, 37 ref. bibliogr. Cotă: P 2011

SOLCAN, Sergiu; ROZSOS, Raul; BERE, Paul; NICOLAE, Vlad; Grad, Daniel; MEAMTU, Calin Designing a car seat for electrical car. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 617-622, 6 ref. bibliogr. Cotă: P 2011

STEOPAN, Monica; POPIȘTER, Florin; CIUPAN, Cornel; AGRIJAN, Bogdan; POP, Grigore Marian. Suction-cup manipulator concept development for thin sheet metal. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 211-216, 15 ref. bibliogr. Cotă: P 2011

Vlase, Sorin; CRIȘAN, Adina; Itu, Călin; Scutaru, Maria Luminița. FEA analysis of the interaction chamber for the ELI-NP array of detectors (ELIADE). În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 41-46, 28 ref. bibliogr. Cotă: P 2011

## FACULTATEA DE MECANICĂ

### Cadre didactice

BALCAU, Monica; CRISTEA, Aurora-Felicia. Theoretical considerations regarding the dynamic absorber. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 417-422, 11 ref. bibliogr. Cotă: P 2011

BALDEAN, Doru-Laurean. Research of fuel injection duty on a spark ignited engine. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 577-582, 12 ref. bibliogr. Cotă: P 2011

BOTEAN, Adrian Ioan. Optimization of a  $\gamma$ - type stirling engine performance based on an experimental approach. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 309-316, 27 ref. bibliogr. Cotă: P 2011

RUSU, Calin; BESOIU, Sorin; KACSO-VIDREAN, Lorand; LAPUSAN, Ciprian. New approaches in online evaluation of photovoltaic systems efficiency by implementing IoT monitoring solutions. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 589-594, 15 ref. bibliogr. Cotă: P 2011

SIMION, Mihaela; DUDESCU, Cristian; BERE, Paul; NEAMTU, Calin; Cocean, Catalin. Material parameters identification of carbon fibres composites with strain gauges. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 461-466, 8 ref. bibliogr. Cotă: P 2011

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

Uriciuc, Willi Andrei; VERMESAN, Horatiu; BOTEAN, Adrian Ioan; NISTOR, Liviu; POPA, Catalin. Research on the surface of the dental alloys with cobalt-crom base. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 4, 2019, p. 623-628, 11 ref. bibliogr. Cotă: P 2011

## FACULTATEA INGINERIA MATERIALELOR ȘI A MEDIULUI

### Cadre didactice

ARGHIR, George. About large U shape wing of glider airplane model. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 1, 2019, p. 19-22, 12 ref. bibliogr. Cotă: P 2011

POP, Mariana; NEAG, Adriana; FRUNZA, Dan; POPA, Florin. Thermomechanical study on 42CrMo4 steel formability. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 287-294, 21 ref. bibliogr. Cotă: P 2011

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

DAMIAN, Gianina Elena; MICLE, Valer; SUR, Ioana Monica. Lead and copper removal from multi-metal contaminated soils through soil washing technique using humic substances as washing agents: the influence of the washing solution pH. În: Studia Universitatis Babes-Bolyai, Chemia Cluj-Napoca, an 64, vol. 1, 2019, p. 41-52, 21 ref bibliogr. Cotă: P 491

JUMOLEA, Alina Georgeta; ARGHIR, George; BRANDUSAN, Liviu; BATIN, Gabriel. Comparison between the density of aluminium matrix reinforced with sic and graphite composite material obtained by injection to the feedstock density. În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 3, 2019, p. 503-506, 19 ref. bibliogr. Cotă: P 2011

Morar, I.A.; Pintican, R; David, R.E.; Kovacs, T.; FECHETE, R. . In vivo <sup>1</sup>H NMR relaxometry maps of women normal and cancerous pelvis. În: Studia Universitatis Babes-Bolyai, Physica, vol. 64, nr. 1-2, 2019, p. 55-65, 10 ref. bibliogr. Cotă: P 494

Smical, Irina; Muntean, Adriana; MICLE, Valer; Torok, Zoltan. Study regarding the presence of some heavy metals ( Chromium, copper, manganese and zinc) in the green waste compost. În: Studia Universitatis Babes-Bolyai, Chemia Cluj-Napoca, an 64, vol. 1, 2019, p. 63-78, 23 ref bibliogr. Cotă: P 491

TRANDAFIR, Nicu-Marian; ARGHIR, George; BRANDUSAN, Liviu; Batin Gabriel . Corrosion tests of AlMn1/Ni201 brazed joint by saline and acidic spraying În: Acta Technica Napocensis: Series: Applied Mathematics, Mechanics and Engineering, Cluj-Napoca, vol. 62, nr. 2, 2019, p. 367-372, 25 ref. bibliogr. Cotă: P 2011

## **Departamentul de Educație Continuă**

**Cadre didactice**

## **Departamentul pentru Pregătirea Personalului Didactic**

**Cadre didactice**

## **Departamentul de specialitate cu Profil Psihopedagogie**

**Cadre didactice**