

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
 FACULTATEA DE MECANICĂ
 DEPARTAMENTUL DE INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ
 Ramura de știință: Inginerie mecanică, mecatronică, inginerie industrială și management
 Domeniul de studii: Mecatronică și robotică

FIȘA DE VERIFICARE
pentru postul de PROFESOR UNIVERSITAR

Cadru didactic: DOROFTEI IOAN / Data nașterii: 24.08.1962 / Funcția ocupată: PROFESOR
 UNIVERSITAR

Data numirii în funcția actuală: 24.02.2003 (Decizia TUIASI nr. 1270/2003)

Tabel 1: Condiții minimale / punctaje obținute (în conformitate cu Domeniul CNATDCU de la titularizare sau abilitare)

Nr. crt.	Criterii și condiții	Indicatori	Realizat
1	Manuale/cărți suport de curs, asociate disciplinelor din postul scos la concurs, de minim 100 pagini - coordonator/prim autor (format tipărit sau electronic disponibil pe platformă universitară)	2	8
2	Publicații (culegeri de probleme, îndrumare de proiectare și/sau laborator în format tipărit sau electronic disponibile pe platforma universitară), echipamente didactice și/sau aplicații informatice pentru activități practice asociate disciplinelor din postul scos la concurs	5	20
3	Număr de lucrări în jurnale Web of Science, J_{WOS} , cu factor de impact > 1 , din care în jurnale Q1 și/sau Q2 după factorul de impact, J_{TOP}	J_{WOS} - min 6 J_{TOP} - min 3	$J_{WOS} = 18$ $J_{TOP} = 14$
4	Număr de lucrări ca autor principal în publicații indexate (Web of Science, SCOPUS, IEEE Xplore), J_{PRI}	J_{PRI} - min 12	$J_{PRI} = 44$
5	Număr cumulativ de citări Web of Science sau SCOPUS ale publicațiilor (luate în calcul o singură dată), fără autocitări, N_C	N_C - min 50	$N_C > 800$
6	Atragerea de resurse financiare prin participarea candidatului la granturi/proiecte/contracte cu terți de cercetare științifică și dezvoltare tehnologică, echivalent a 30 mii euro în total (cu dovada încasării de către instituția gazdă a proiectului), $N_{INC} = 1$ pentru 10 mii euro. Numărul de granturi/proiecte/contracte cu terți câștigate prin competiție/licitație națională/internațională să fie director sau responsabil partener, N_{GC}	N_{INC} - min 3 N_{GC} - min 2	$N_{INC} > 3$ $N_{GC} = 3$
7	Lucrări publicate (Web of Science, SCOPUS, IEEE Xplore), cărți, tratate, monografii sau brevete acordate, selectate de către candidat, calificate de către comisia de evaluare ca fiind reprezentative pentru domeniul postului scos la concurs, L_R	L_R - min 10	
8	Doctoranzi în stagiul, D_S , sau doctori confirmați, D_C	D_S - min 1 sau D_C - min 1	$D_S = 9$ $D_C = 5$

3 Se consideră cursul mediu anual al BNR pentru anul de derulare a proiectului.

2 Prin autor principal se înțelege prim-autor sau autor corespondent.

sau la data înregistrării dosarului de concurs, în funcție de cum este mai avantajos pentru candidat, cu menționarea numărului de identificare WOS.

1 Se poate echivala doar o lucrare Q1 și/sau Q2 cu un brevet de invenție internațional/național acordat. Brevetele se includ în dosarul de concurs. Quartila Q1 sau Q2 se consideră la data publicării articolului

Note:

Toate punctajele, parțiale și totale, sunt îndeplinite

1.
 - 1.1 **I. Doroftei**, *Arhitectura și cinematica roboților*, 210 pag., Editura Tehnica, Stiintifica si Didactica CERMI, Iași, 2002, ISBN 973-8188-39-3.
 - 1.2 A. Preumont, **I. Doroftei**, *Introduction à la robotique*, 228 pag., Editura Junimea, 2002, Iași, ISBN 973-37-0686-8.
 - 1.3 A. Popovici, **I. Doroftei**, C. Opreșan, G. Moldovanu, *Uniformizarea mișcării și echilibrarea mecanismelor*, 160 pag., Editura Tehnica, Stiintifica si Didactica CERMI, Iași, 1998, ISBN 973-9378-42-0.
 - 1.4 C. Opreșan, A. Popovici, **I. Doroftei**, G. Moldovanu, *Introducere în cinematica și dinamica roboților și manipuloarelor*, 224 pag., Editura Tehnica, Stiintifica si Didactica CERMI, Iași, 1998, ISBN 973-9378-23-4.
 - 1.5 **I. Doroftei**, *Robotica*, Vol. 2, 200 pag., Ed. Tehnica, Stiintifica si Pedagogica CERMI, Iasi, 2006, ISBN 973-667-148-7.
 - 1.6 **I. Doroftei**, *Robotica*, Vol. 1, 200 pag., Ed. Tehnica, Stiintifica si Pedagogica CERMI, Iasi, 2005, ISBN 973-667-105-4.
 - 1.7 **I. Doroftei**, *Introducere în roboți pășitori*, 175 pag., Editura Tehnica, Stiintifica si Pedagogica CERMI, Iași, 1998, ISBN 973-984-43-9-1.
 - 1.8 **I. Doroftei**, *Bazele roboticii - Curs*, 352 pag., Universitatea Tehnica "Gheorghe Asachi" din Iasi, 2016, <http://www.mec.tuiasi.ro/ro/index.php/studenti/download-descarca2>.
2.
 - 2.1 **I. Doroftei**, *Bazele roboticii – Indrumar lucrari practice*, 94 pag., Universitatea Tehnica "Gheorghe Asachi" din Iasi, 2016, <http://www.mec.tuiasi.ro/ro/index.php/studenti/download-descarca2>.
 - 2.2 Kit robot mobil avansat Maze (13 buc) si platforma de lucru pentru aplicatii la disciplina Roboti mobili
 - 2.3 Sistem flexibil de prelucrare si asamblare, cu roboti ABB
 - 2.4 Sistem flexibil de sortare-ambalare, cu roboti ABB
 - 2.5 Controlul mișcării robotului omnidirectional cu roti universale – ROBOTINO
 - 2.6 Robot umanoid NAO
 - 2.7 Robot umanoid Pepper
 - 2.8 Structura, cinematica și controlul unui robot de inspectat conducte
 - 2.9 Structura, cinematica și controlul în buclă deschisă a unui robot de tip manipulator în coordonate cilindrice
 - 2.10 Controlul mișcării unui mini-robot pășitor hexapod cu picior tip paralelogram
 - 2.11 Controlul mișcării unui mini-robot pășitor hexapod cu picior bazat pe mecanismul cu culisa de translatie
 - 2.12 Modelul cinematic si controlul mișcării unui mini-robot mobil cu locomotie hibrida
 - 2.14 Controlul mișcării unui mini-robot mobil cu senile
 - 2.15 Modelul cinematic si controlul mișcării unui robot mobil cu roti Mecanum
 - 2.16 Structura, cinematica și controlul, unui robot paralel plan RRR
 - 2.17 Controlul miscarii unui robot social – PROBO
 - 2.18 Controlul miscarii unui robot mobil autonom si traseu de competitie
 - 2.19 Controlul miscarii unui robot pasitor hexapod autonom
 - 2.20 C. Duca, V. Atanasiu, **I. Doroftei**, D. Leohchi, C. Oprisan, A. Popovici, V. Ciausiu, E. Budescu, F. Buium, E. Merticaru, *Mecanisme – Indrumar de laborator*, 110 pag., Tipografia Universității Tehnice „Gheorghe Asachi” din Iasi, 2004.
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 - 3.1 **Doroftei, I.**, Cazacu, C. M. (2026). Design, Manufacturing, Tribology, and Performance of Microgears and Microgear Trains: A Critical Review of Mechanical Power Transmission at the Microscale. *Micromachines*, 17(8), 934. IF = 3, Q2.
 - 3.2 **Doroftei, I.** (2026). Walking on Uneven Terrain with Hexapod Robots Having Underactuated Legs and Articulated Body. *Biomimetics*, 11(2), 132. IF = 4.2. Q1

- 3.3 Buium, F., **Doroftei, I.**, & Alaci, S. (2025). Assembly Modes and Workspace Analysis of a 3-R RR Planar Manipulator. *Robotics*, 14(2), 16. IF = 3.2, Q2
 - 3.4 Ciocirlan, T. M., Alaci, S., Ciornei, F. C., Romanu, I. C., & **Doroftei, I.** (2025, January). A Symmetrical RPRR Robust Coupling for Crossed Axes Transmission. In *Actuators* (Vol. 14, No. 2, p. 64). MDPI. IF = 2.4, Q2
 - 3.5 Teodoriu, A. P., Pricop, B., Lohan, N. M., Popa, M., Comănesci, R. I., **Doroftei, I.**, & Bujoreanu, L. G. (2024, August). Designing a Robotic Gripper Based on the Actuating Capacity of NiTi-Based Shape Memory Wires. In *Actuators*, (13) 8, p. 319, MDPI. IF = 2.4. Q2
 - 3.6 Alaci, S., Ciornei, F.C., Romanu, I.C., **Doroftei, I.**, Bujoreanu, C. and Tamaşag, I. A Rapid and Inexpensive Method for Finding the Basic Parameters of Involute Helical Gears. *Applied Sciences Basel*, 14(5), p.2043, 2024. IF = 2.9. Q2
 - 3.7 Alaci, S., Ciornei, F.C., Romanu, I.C., **Doroftei, I.**, Bujoreanu, C. and Tamaşag, I. A New Direct and Inexpensive Method and the Associated Device for the Inspection of Spur Gears. *Machines*, 11(12), p.1046, 2023. IF = 3. Q2
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 - 3.9 Alaci, S., **Doroftei, I.**, Ciornei, F.C., Romanu, I.C., Doroftei, I.A. and Ciornei, M.C.. A New RP1PR Type Coupling for Shafts with Crossed Axes. *Mathematics*, 11(9), p.2025, 2023. IF = 2.3. Q1
 - 3.10 **Doroftei, I.**, C. M. Cazacu, and S. Alaci. Design and Experimental Testing of an Ankle Rehabilitation Robot. *Actuators*, 12 (6), pp. 238, 2023. IF = 2.4. Q2
 - 3.11 Alaci, Stelian, **Ioan Doroftei**, Florina-Carmen Ciornei, Ionut-Cristian Romanu, and Ioan Alexandru Doroftei. "The Kinematics of a Bipod R2RR Coupling between Two Non-Coplanar Shafts". *Mathematics*, 10(16), p 2898, 2022. IF = 2.3. Q1
 - 3.12 Rusu, L., Grigoraş, C. G., Suceveanu, E. M., Simion, A. I., Dediu Botezatu, A. V., Istrate, B., & **Doroftei, I.** (2021). Eco-friendly biosorbents based on microbial biomass and natural polymers: Synthesis, characterization and application for the removal of drugs and dyes from aqueous solutions. *Materials*, 14(17), 4810. IF = 3.7. Q2
 - 3.13 **Doroftei, I.**, Chirita, D., Stamate, C., Cazan, S., Pascal, C. and Burlacu, A. (2021), "Robotic system design and development for automated dismantling of PCB waste", *Industrial Robot*, Vol. 48 No. 5, pp. 720-725. IF = 2.1. Q3
 - 3.14 B. Hichri, J.-C. Fauroux, L. Adouane, **I. Doroftei**, Y. Mezouar, *Design of cooperative mobile robots for co-manipulation and transportation tasks*, *Robotics and Computer Integrated Manufacturing*, 57 (2019), pp. 412-421. IF = 12.3. Q1
 - 3.15 B. Hichri, L. Adouane, J.-C. Fauroux, Y. Mezouar, **I. Doroftei**, (2019) "*Flexible co-manipulation and transportation with mobile multi-robot system*", *Assembly Automation*, Vol. 39, No. 3, 2019, pp. 422-431. IF = 1.7. Q3
 - 3.16 **I. Doroftei**, Y. Baudoin, *A concept of walking robot for humanitarian demining*, *Industrial Robot: An International Journal*, Vol. 39, Iss: 5, 2012, pp.441 – 449, DOI: 10.1108/01439911211249733. IF = 2.1. Q3
 - 3.17 E. Colon, P. Hong, J.-C. Habumuremyi, **I. Doroftei**, Y. Baudoin, H. Shali, D. Milojevic, J. Weemaels, *An Integrated Robotic System for Antipersonnel Mines Detection*, *Control Engineering Practice*, Pergamon Press, Elsevier Science Ltd., Vol. 10, No. 11, 2002, pp. 1283-1291, ISSN 0967-0661. IF = 5.3. Q1
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- 4.
 - 4.1 **Doroftei, I.**, Cazacu, C. M. (2026). Design, Manufacturing, Tribology, and Performance of Microgears and Microgear Trains: A Critical Review of Mechanical Power Transmission at the Microscale. *Micromachines*, 17(8), 934.
 - 4.2 **Doroftei, I.** (2026). Walking on Uneven Terrain with Hexapod Robots Having Underactuated Legs and Articulated Body. *Biomimetics*, 11(2), 132.

- 4.3 **Ioan Doroftei**, Stelian Alaci, Marius-Gheorghe Hagan, Andrei Vieru, Ionel Staretu (2026) "DESIGNING AN AGRICULTURAL MOBILE ROBOT WITH HYBRID LOCOMOTION", Environmental Engineering and Management Journal, 25(2), 271-287.
- 4.4 Radu-Octavian Sandu, Danut-Constantin Irimia, **Ioan Doroftei** (2026), "A REVIEW ON INTERFACING STRATEGIES USED FOR ROBOTIC UPPER LIMB PROSTHESES", Environmental Engineering and Management Journal, 25(2), 325-333.
- 4.5 Cristina-Magda Cazacu, Vitalie Coadă, **Ioan Doroftei**, Stelian Alaci (2026), "A COMPREHENSIVE REVIEW OF LOWER LIMB EXOSKELETONS", Environmental Engineering and Management Journal, 25(2), 313-323.
- 4.6 **DOROFTEI, I.**, CRIVOI, O. V., CAZACU, C. M., & ALACI, S. (2025). SOME PARTICULARITIES OF INTERNAL-EXTERNAL GEAR PAIRS WITH ZERO DIFFERENCE IN NUMBERS OF TEETH. *ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING*, 68(1 & 2).
- 4.7 Buium, F., **Doroftei, I.**, & Alaci, S. (2025). Assembly Modes and Workspace Analysis of a 3-R RR Planar Manipulator. *Robotics*, 14(2), 16.
- 4.8 **Doroftei, I.**, C. M. Cazacu, and S. Alaci. Design and Experimental Testing of an Ankle Rehabilitation Robot. *Actuators*, 12 (6), pp. 238, 2023.
- 4.9 **Ioan Doroftei**, Claudia-Ana Morar, Stelian Alaci, and Marius-Gheorghe Hagan. "KINEMATIC DESIGN OF A HYBRID LOCOMOTION MOBILE MANIPULATOR FOR AGRICULTURAL APPLICATIONS." *ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING* 65(2S), pp. 319 – 324, 2022.
- 4.10 **Doroftei, I.**, and I. A. Doroftei. "Dimensional synthesis and comparative simulation of two planar deployable mechanisms." In IOP Conference Series: Materials Science and Engineering, vol. 1262, no. 1, p. 012043. IOP Publishing, 2022.
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- 4.12 **Doroftei, I.**, Chirita, D., Stamate, C., Cazan, S., Pascal, C. and Burlacu, A. (2021), "Robotic system design and development for automated dismantling of PCB waste", *Industrial Robot*, Vol. 48 No. 5, pp. 720-725.
- 4.13 C. M. Racu and **I. Doroftei**. "Preliminary results and evaluation of an ankle rehabilitation device." In IOP Conference Series: Materials Science and Engineering, vol. 997, no. 1, p. 012088. IOP Publishing, 2020.
- 4.14 **I. Doroftei** and O. Crivoi. "Theoretical aspects on internal cylindrical gears with small tooth number difference." In IOP Conference Series: Materials Science and Engineering, vol. 997, no. 1, p. 012072. IOP Publishing, 2020.
- 4.15 I. A. Doroftei, C. Bujoreanu, and **I. Doroftei**. "Modeling and analysis of some planar deployable mechanisms. Part 2: curvilinear bar mechanisms." In IOP Conference Series: Materials Science and Engineering, vol. 997, no. 1, p. 012074. IOP Publishing, 2020.
- 4.16 I. A. Doroftei, I. A., C. Bujoreanu, and **I. Doroftei**. "Modeling and analysis of some planar deployable mechanisms. Part 1: translational bar mechanisms." In IOP Conference Series: Materials Science and Engineering, vol. 997, no. 1, p. 012073. IOP Publishing, 2020.
- 4.17 C. Stamate, **I. Doroftei**, D. Chirita, and A. Burlacu. "On designing an automated tool for capacitors removal from waste printed circuits boards." In IOP Conference Series: Materials Science and Engineering, vol. 591, no. 1, p. 012082. IOP Publishing, 2019.
- 4.18 I. A. Doroftei, C. Bujoreanu, and **I. Doroftei**. "Structural and kinematic aspects of some bar mechanisms for deployable structures." In IOP Conference Series: Materials Science and Engineering, vol. 591, no. 1, p. 012077. IOP Publishing, 2019.
- 4.19 **I. Doroftei**, C. M. Racu, C. Honceriu, and D. Irimia. "A one-degree-of freedom ankle rehabilitation platform." In IOP Conference Series: Materials Science and Engineering, vol. 591, no. 1, p. 012076. IOP Publishing, 2019.
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- 4.28 **I. Doroftei**, F. Adascalitei, D. Lefebvre, B. Vanderborght, I.A. Doroftei, *Facial expressions recognition with an emotion expressive robotic head*, IOP Conference Series: Materials Science and Engineering, Vol. 147, No. 1, 2016, p. 012086, IOP Publishing.
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- 4.30 O. Crivoi, **I. Doroftei**, *Some experimental results on Coanda effect with application to a flying vehicle*, IOP Conference Series: Materials Science and Engineering, Vol. 147, No. 1, 2016, p. 012082, IOP Publishing.
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6. Vezi adeverinta atasata.

7.

- 7.1 **Doroftei, I.**, Cazacu, C. M. (2026). Design, Manufacturing, Tribology, and Performance of Microgears and Microgear Trains: A Critical Review of Mechanical Power Transmission at the Microscale. *Micromachines*, 17(8), 934. IF = 3, Q2.
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8.

Doctoranzi in stagi

1. Sandu Radu-Octavian
2. Crivoi Ovidiu-Vasile
3. Coadă Vitalie
4. Puscasu Constantin
5. Onea Adrian
6. Ciumeica Ion
7. Straticiu Cosmin
8. Diaconu Alin-Stefan
9. Tatar Ioan Dragos

Doctori confirmati

1. Stirbu Bogdan
2. Adascalitei Florentina
3. Cazacu Cristina-Magda
4. Cardos Ana
5. Teodoru Adrian-Petru

21.10.2026

Semnatura

