

**FIȘA DE VERIFICARE
A ÎNDEPLINIRII STANDARDELOR MINIMALE
pentru ocuparea posturilor didactice de lector universitar/șef lucrări**

I. DATE DESPRE CANDIDAT

NUME SAS PRENUME **DIANA MONICA** CNP

Postul pentru care candidează: **Sef Lucrări Poziția 24**

Disciplinele: **Automatizări, Programarea calculatoarelor și limbaje de programare I, II, Programare orientată pe obiecte, Sisteme de comandă și reglare a acțiunilor electrice**

Departamentul: **Departamentul de Ingineria Sistemelor Automate și Management**

Facultatea de Inginerie Electrică și Tehnologia Informației

Gradul didactic actual: **Cadru Didactic Asociat al Universitatii Tehnice Cluj-Napoca, Facultate de Automatica și Calculatoare, Departamentul Calculatoare, Disciplina: Sisteme cu Microprocesoare, Microprocessors based systems**

II. DATE PRIVIND ÎNDEPLINIREA CONDIȚIILOR DE CONCURS

1. Studii universitare de licență și masterat

Nr. crt.	Instituția de învățământ superior	Domeniul	Perioada	Titlul acordat
1.	Universitatea Tehnică Cluj-Napoca, Facultatea de Automatică și Calculatoare	Ingineria Sistemelor	2008-2012	Inginer
2.	Universitatea Tehnică Cluj-Napoca, Facultatea de Automatică și Calculatoare	Controlul Avansat al Proceselor	2012-2014	Master

2. Studii universitare de doctorat

Nr. crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul științific acordat
1.	Universitatea Tehnică Cluj-Napoca, Facultatea de Automatică și Calculatoare	Ingineria Sistemelor	2014-2018	Doctor

3. Studii și burse postdoctorale

Nr. crt.	Instituția organizatoare	Domeniul	Perioada	Obs.

4. Grade didactice/profesionale

Nr. crt.	Instituția	Domeniul	Perioada	Titlul/funcția didactică/ grad profesional
1.	Universitatea Tehnica Cluj-Napoca	Facultatea de Automatică și Calculatoare	2017-prezent	Cadru Didactic Asociat

III. DATE PRIVIND ÎNDEPLINIREA STANDARDELOR MINIMALE

- dețin titlul științific de doctor

Doctor în domeniul Ingineria Sistemelor cu calificativul Magna Cum Laude, în baza Ordinului Ministrului Educației Naționale nr 4193 din 27.07.2018

- am publicat minimum 5 lucrări (în extenso sau în rezumat) în reviste de specialitate sau în volume ale unor manifestări științifice naționale sau internaționale:

Nr. crt.	Titlul lucrării	Autorii lucrării	Revista/Volumul în care a fost publicată lucrarea
1.	Process modeling and simulation of distributed parameter using M_{pdx} method with approximating solutions	D. Sas, Mihaela-Ligia Ungureșan, Tiberiu Colosi	ISI - Proceeding, IEEE - AQTR 2014, Cluj-Napoca, p. 57-62. Print ISBN: 978-1-4799-3731-8. http://ieeexplore.ieee.org/document/6857833/
2.	Preliminaries in numerical simulation of isotope separation closed-loop processes	D. Sas, M. Secara	2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8 http://ieeexplore.ieee.org/document/7158445/
3.	Preliminaries in numerical simulation of isotope separation open-loop processes	D. Sas, M. Secara	2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8 http://ieeexplore.ieee.org/document/7158445/
4.	Mathematical model for ^{18}O isotope separation column operated by product extraction regime	M. Secara, D. Sas	2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania ISBN: 978-1-4799-7650-8 http://ieeexplore.ieee.org/document/7158444/

5.	Mathematical model for 18O separation column based on chemical exchange between nitric oxides and nitric acid solution operated at total reflux	M. Secara, D. Sas	2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania ISBN: 978-1-4799-7650-8 http://ieeexplore.ieee.org/document/7158443/
6.	Prelimiaries in (MPDX) method associated with Cohen equations	Diana Monica Sas, Zoltan Kovendi	2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Proceedings, Cluj-Napoca, Romania, ISBN: 978-1-4673-8692-0 http://ieeexplore.ieee.org/abstract/document/7501386/
7.	Optimizing the Casting Length of a Single Diameter Steel Billets Based on Minimum Cost	I. Clitan, V. Muresan, M. Abrudean, D. Sas	2016 International Conference on System Theory, Control and Computing (ICSTCC), Joint Conference of SINTES 20, SACCS 16, SIMSIS 20 – Proceedings, Sinaia, Romania, ISBN: 978-1-5090-2720-0 http://ieeexplore.ieee.org/document/7790643/
8.	Pipes Temperature Control in an Annealing Furnace	V. Mureșan, M. Abrudean, H. Vălean, I. Clitan, M.-L. Ungureșan, T. Coloși, D. Sas, A. Pușcașiu, A. Fanca	2017 International Carpathian Control Conference (ICCC), Sinaia, Romania, ISBN: 978-1-5090-4862-5 http://ieeexplore.ieee.org/document/7970437/
9.	Automatic Determination of Optimal Length of Casting Steel Blocks in the Context of an Imprecise Manufacturing	I. Clitan, V. Muresan, M. Abrudean, D. Sas	2017 International Conference on Control Systems and Computer Science (CSCS) Bucuresti, Romania ISBN: 978-1-5386-1839-4 http://ieeexplore.ieee.org/document/7968548/
10.	Modeling and simulation of a Carbon 13C Separation Process by low temperature Distillation	D. Sas, Z. Kovendi, L. Coroiu, E.-I. Gergely, G. Husi	IEEE 2017 14th International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-5090-6073-3 http://ieeexplore.ieee.org/document/7980416/

11.	Time and space constants in the orthodontic dynamics	O. Bunta, V. Muresan, D. Sas, T. Colosi	IEEE 2017 14th International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-5090-6073-3 http://ieeexplore.ieee.org/document/7980414/
12.	Mathematical formalisms used in the orthodontic dynamics	O. Bunta, V. Muresan, D. Sas, T. Colosi	IEEE 2017 14th International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-5090-6073-3 http://ieeexplore.ieee.org/document/7980413/
13.	Preliminaries in Carbon 13C Separation Process by low temperature Distillation	D. Sas, Z. Kovendi, E.-I. Gergely, G. Husi, L. Coroiu	2017 Journal of Electrical and Electronics Engineering (JEEE), ISSN: 1844-6035 https://electroinf.uoradea.ro/index.php/volumes-2/jeee-vol-10-nr-1-may-2017.html
14.	Optimization of the number of steel billets that need to be casted in a charge using Simplex method	D. Sas, I. Clitan, M. Abrudean, V. Muresan, T. Colosi	Applied Mechanics and Materials, Vol. 859, pp. 183-187, 2017, DOI:10.4028/www.scientific.net/AMM.859.183 https://www.scientific.net/AMM.859.183
15.	Optimization of the Casting Length of Billets and Computation of Minimum Number of Steel Batches	I. Clitan, V. Muresan, M. Abrudean, D. Sas	Applied Mechanics and Materials, Vol. 859, pp. 177-182, 2017, ISBN: 978-1-5090-2720-0 https://www.scientific.net/AMM.859.177
16.	Modeling and Simulation of the Sulfur Dioxide Adsorption Process in Natural Zeolites	S. Sfechiş, M. Abrudean, D. Sas, M.-L. Ungureşan, I. Clitan, V. Mureşan	Applied Mechanics & Materials, 2015, Vol. 811, p35-42, DOI 10.4028/www.scientific.net/AMM.811.35 https://www.scientific.net/AMM.811.35
17.	Analytical modeling of an 15N isotope separation column by second-order quasi-linear equations with two independent variables	D. Sas, I. Clitan, M.-L. Unguresan, V. Muresan	International Conference on Aerospace, Robotics, Biomechanics, Neurorehabilitation, Mechanical Engineering and Manufacturing Systems (ICMERA) 2017, Bucuresti, Romania http://www.ijmo.org/index.php?m=content&c=index&a=show&catid=72&id=747

18.	Preliminaries of structural parameters approximation through transcendence equations for an ^{15}N isotope separation column	V. Muresan, D.Sas, I.Clitan, M.-L.Unguresan	International Conference on Aerospace, Robotics, Biomechanics, Neurorehabilitation, Mechanical Engineering and Manufacturing Systems (ICMERA 2017), Bucuresti, Romania http://www.ijmo.org/index.php?m=content&c=index&a=show&catid=72&id=746
19.	Modeling and simulation of a waste water neutralization system using (Mpdx) method	Sas Diana Monica, Kovendi Zoltan, Clitan Iulia	2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, ISBN: 978-1-5386-2205-6 https://ieeexplore.ieee.org/document/8402787/
20.	Numerical simulation of a wastewater neutralization system	D. Sas, Z. Kovendi, I. Clitan	2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, ISBN: 978-1-5386-2205-6 https://ieeexplore.ieee.org/document/8402788/
21.	Extension of Mpdx matrix for 4th order partial differential equations with two independent variables	T. Coloși, M. Abrudean, V. Mureșan, I. Clitan, D. Sas, M.-L. Ungureșan	2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, ISBN: 978-1-5386-2205-6 https://ieeexplore.ieee.org/document/8402789/
22.	Extension of Mpdx Matrix for upper order Partial Diferential Equations with two Independent Variables and Approximating Solutions	T. Coloși, D. Sas, M. Man Dietrich, I. Clitan, Z. Kovendi, L. Coroiu	IEEE 2019 15th International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, Electronic ISBN: 978-1-7281-0773-8 https://ieeexplore.ieee.org/document/8795214
23.	Implementation of the Quality management system in the Matlab software	M. Man Dietrich, M. S. Popa, D. Sas, Z. Kovendi, E. I. Gergely	IEEE 2019 15th International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, Electronic ISBN: 978-1-7281-0773-8 https://ieeexplore.ieee.org/document/8795215
24.	Control and Monitoring System for a Rubber Injection Press	D. Sas	2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Students Forum 2012, Cluj–Napoca, România, ISBN: 978-973-662-731-6

25.	Fractional order controllers for first order systems	D. Sas	2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Students Forum, 2012, Cluj–Napoca, România, ISBN: 978-973-662-731-6
26.	FOPID Controller for DC Motor	D. Sas	Conferinta Studentilor ACSC 2013, Cluj–Napoca, România, ISSN–L: 2285 – 2166
27.	Mathematical Modeling of a Three Separation Columns Cascade for 13C Isotope Enrichment	V.Muresan, M. Abrudean, M-L Ungureșan, I.Clitan, D.Sas	IEEE 2017 International Conference on Optimization of the Intelligent Systems and Their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics and Neurorehabilitation (OPTIROB), Jupiter, Romania

➤ am elaborat materiale didactice de specialitate pentru uzul studenților:

Nr. crt.	Titlul materialului	Autorii materialului	Anul publicării	Locul publicării (editura / format electronic)
1.	Modelarea si simularea procselor cu parametri distribuiti	D. Sas	2019	Editura Galaxia Gutenberg, Cluj-Napoca ISBN: 978-973-141-804-9
2.	Programare orientată pe obiecte – îndrumator laborator	D. Sas	2020	Editura Galaxia Gutenberg, Cluj-Napoca ISBN: 978-973-141-865-0

Realizat / *nerealizat*

Confirm prin prezenta că datele mai sus menționate sunt reale și se referă la propria mea activitate profesională și științifică.

Data 13.07.2020

Candidat