

Broj: 02/1-1070/1
Datum: 12.04.2023.

UNIVERZITET CRNE GORE

- Odboru za doktorske studije -

- Senatu -

OVDJE

U prilogu dostavljamo Odluku Vijeća Elektrotehničkog fakulteta, sa sjednice od 11.07.2023. godine, o predlogu za imenovanje mentora i komentora kandidatu mr **Đorđu Stankoviću** i **obrazac M**, sa pratećom dokumentacijom, na dalje postupanje.



DEKAN,

Saša Mujović
Prof. dr Saša Mujović



UCG

Univerzitet Crne Gore

Univerzitet Crne Gore
ELEKTROTEHNIČKI FAKULTET

81000 Podgorica, Dž. Vašingtona bb, tel. (020) 245 839, fax: (020) 245 873
Ž.R. 510-255-51, PIB: 02016702 302, PDV: 30/31-03951-6



Broj: 02/1-1070

Datum: 11.04.2023

Na osnovu člana 64 Statuta Univerziteta Crne Gore i člana 29 Pravila doktorskih studija, Vijeće Elektrotehničkog fakulteta u Podgorici, na sjednici od 11.07.2023. godine, donijelo je

ODLUKU

Predlaže se **dr Irena Orović**, redovni profesor na Elektrotehničkom fakultetu Univerziteta Crne Gore, **za mentora**, a **dr Cornel Ioana**, vanredni profesor - Institute Polytechnique de Grenoble (INP UGA), Francuska, **za komentora** pri izradi doktorske disertacije, mr Đorđu Stankoviću, studentu doktorskih studija na Elektrotehničkom fakultetu u Podgorici.

-VIJEĆE ELEKTROTEHNIČKOG FAKULTETA-

Dostavljeno:

- Odboru za doktorske studije,
- u dosije,
- a/a.





DEKAN,

Saša Mujović
Prof. dr Saša Mujović

MENTORSTVO

IME I PREZIME KANDIDATA		MSc Đorđe Stanković	
PREDLOŽENI MENTOR/I			
	Titula, ime i prezime	Ustanova i država	Naučna oblast
Prvi mentor	Prof. dr Irena Orović	Elektrotehnički fakultet, Crna Gora	Digitalna obrada signala
Drugi mentor	Prof. dr Cornel Ioana	Grenoble INP UGA, Francuska	Digitalna obrada signala
Sjednica Vijeća organizacione jedinice na kojoj je izvršeno predlaganje mentora		11.04.2023. god.	
KOMPETENCIJE MENTORA (u skladu sa članom 29 Pravila doktorskih studija)			
Prvi mentor	1	M. Brajović, I. Orović, M. Daković and S. Stanković, "Compressive Sensing of Sparse Signals in the Hermite Transform Basis," in IEEE Transactions on Aerospace and Electronic Systems, vol. 54, no. 2, pp. 950-967, April 2018, doi: 10.1109/TAES.2017.2768938.	
	2	Orović, I., Stanković, S. & Beko, M. Multi-base compressive sensing procedure with application to ECG signal reconstruction. EURASIP J. Adv. Signal Process. 2021, 18 (2021). https://doi.org/10.1186/s13634-021-00728-4	
	3	Orović, I., Draganić, A. and Stanković, S. (2015), Sparse time-frequency representation for signals with fast varying instantaneous frequency. IET Radar Sonar Navig., 9: 1260-1267. https://doi.org/10.1049/iet-rsn.2015.0116	
	4	Orović, I., Lekić, N. & Stanković, S. An Analog-Digital Hardware for L-Estimate Space-Varying Image Filtering. Circuits Syst Signal Process 35, 409-420 (2016). https://doi.org/10.1007/s00034-015-0083-8	
	5	Sejdić E, Orović I, Stanković S. Compressive sensing meets time-frequency: An overview of recent advances in time-frequency processing of sparse signals. Digit Signal Process. 2018 Jun;77:22-35. doi: 10.1016/j.dsp.2017.07.016. Epub 2017 Aug 7. PMID: 29867288; PMCID: PMC5984051.	
Drugi mentor	1	Yannick Deville, Alain Deville, Ali Mansour, Cornel Ioana. Statistical intrusion detection and eavesdropping in quantum channels with coupling: multiple-preparation and single-preparation methods. Quantum Information Processing, Springer Verlag, 2022, 21 (3), pp.94. (10.1007/s11128-022-03436-6)	
	2	Nicoletta Saulig, Jonatan Lerga, Željka Milanovic, Cornel Ioana. Extraction of Useful Information Content From Noisy Signals Based on Structural Affinity of Clustered TFDs' Coefficients. IEEE Transactions on Signal Processing, 2019, 67 (12), pp.3154-3167.	
	3	Irina Murgan, Gabriel Vasile, Cornel Ioana, Stéphane Barre, Thierry Lora-Ronco. Hydraulic Turbine Vortex detection and visualization using Strain Gauge Sensor. IEEE Sensors Letters, 2017, 1 (5), pp.1 - 1.	
	4	Nicoletta Saulig, Željka Milanović, Cornel Ioana. A local entropy-based algorithm for information content extraction from time-frequency	

IME I PREZIME KANDIDATA		MSc Đorđe Stanković		
		distributions of noisy signals. Digital Signal Processing, Elsevier, 2017, 70, pp.155 - 165.		
	5	Andrei Anghel, Gabriel Vasile, Cornel Ioana, Remus Cacoveanu, Silviu Ciochina. Micro-Doppler Reconstruction in Spaceborne SAR Images Using Azimuth Time-Frequency Tracking of the Phase History. IEEE Geoscience and Remote Sensing Letters, 2016, 13 (4), pp.604-608.		
PODACI O MAGISTRANDIMA I DOKTORANDIMA				
	Broj magistranada		Broj doktoranada	
	trenutno	ukupno	trenutno	ukupno
Prvi mentor	4	7	/	/
Drugi mentor	1	35	4	22
Datum i ovjera (pečat i potpis odgovorne osobe)				
U (navesti grad), (navesti datum) PODGORICA, 12.04.2023. GOD.				
		 DEKAN 		

PROF. DR IRENA OROVIĆ

BIOGRAFIJA

Irena Orović je rođena 21.02.1983.god. u Podgorici. Završila je studije na Elektrotehničkom fakultetu u Podgorici 2005. godine. Diplomirala je sa ocjenom 10 u julu 2005. godine u Brestu, Francuska, gdje je boravila po osnovu bilateralne saradnje između Univerziteta Crne Gore i ENSIETA-e Brest. Od 2005-2010 godine bila je saradnik u nastavi na Elektrotehničkom fakultetu, zatim od 2010-2015 docent na Univerzitetu Crne Gore, od 2015. je vanredni profesor a u zvanje redovnog profesora je izabrana u junu 2020.

Postdiplomske studije je upisala u septembru 2005. godine na Elektrotehničkom fakultetu (odsjek Elektronika, telekomunikacije i računari, smjer Računari).

Magistarsku tezu „Primjena vremensko-frekvencijske analize na watermarking govornih signala“ odbranila je sa ocjenom 10 u Decembru 2006. godine.

Doktorsku disertaciju: “Vremensko-frekvencijske distribucije i neki aspekti primjene” odbranila je 19.02.2010. godine.

Dobitnik je brojnih nagrada i priznanja, među kojima treba istaknuti:

- Studentsku nagradu “19. decembar” (2003),
- Nagradu Crnogorske akademije nauka i umjetnosti (2004),
- Nagradu Univerziteta Crne Gore (2004),
- Više puta je nagrađivana od strane Elektrotehničkog fakulteta kao najbolji student generacije
- Dobitnik je Plakete Univerziteta Crne Gore za najboljeg diplomiranog studenta iz oblasti tehničkih, prirodno-matematičkih i medicinskih nauka (2005. godine),
- Dobitnik je nagrade Elektrotehničkog fakulteta za izvanredne naučno-istraživačke rezultate tokom rada na doktorskoj tezi (2010. godine).
- Dobitnik je internacionalne nagrade za najbolju doktorsku disertaciju TRIMO 2011 Ljubljana, Slovenija
- Nagrada Ministarstva nauke za najuspješniju ženu u nauci - 2012 godine

Boravci na inostranim naučnim institucijama: Dr. Orović je boravila na instituciji ENSIETA iz Bresta, Francuska (2005 i 2006.), University Bonn-Rhien-Sieg iz Bona, Njemačka (2007),

Institut Polytechnique de Grenoble, Francuska (2008. i 2009.), Villanova University, Philadelphia USA (2010, 2011, 2012).

Prof. dr Irena Orović je do sada objavila oko 130 naučnih radova od čega oko 60 u vodećim svjetskim časopisima (časopisi sa SCI/SCIE liste sa impact faktorom), kao i veći broj radova u drugim međunarodnim časopisima i na konferencijama.

Objavila je kao koautor 5 udžbenika na našem jeziku. Od knjiga i monografija inostranih izdavača objavila je dvije knjige: "Multimedia Signals and Systems", Springer 2012 na engleskom jeziku publikovanu od strane svjetskog izdavača Springer-a, kao i „Multimedia Signals and Systems: Basic and Advanced Algorithms for Signal Processing“, zatim poglavlje u međunarodnoj monografiji "Time-Frequency Analysis of Micro-Doppler Signals Based on Compressive Sensing," Compressive Sensing for Urban Radar, CRC-Press, 2014", poglavlje u enciklopediji: „Sparse Signal Reconstruction“ in Encyclopedia of Electrical and Electronics Engineering, Wiley 2017.

Recenzent je u mnogobrojnim časopisima, medju kojima je više njih iz IEEE i IEE izdanja.

Bila je rukovodilac Računarskog centra na Elektrotehničkom fakultetu, i šef studijskog programa Elektronika, telekomunikacije, računari.

U periodu od 2011-2015 godina dr Irena Orović je bila potpredsjednik i član Savjeta za naučno-istraživačku djelatnost u Crnoj Gori (Ministarstvo nauke Crne Gore).

Od decembra 2017. godine obavlja funkciju Prorektora za nauku i istraživanje.

Predsjednik je Naučnog odbora Univerziteta Crne Gore.

ODABRANE REFERENCE

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2. M. Brajović, **I. Orović**, M. Beko, and S. Stanković, "Parameter Optimization of Orthogonal Discrete Hermite Transform Formed Using Eigenvectors of a Symmetric Tridiagonal Matrix," *Digital Signal Processing*, Volume 117, October 2021, 103140, doi: <https://doi.org/10.1016/j.dsp.2021.103140>

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3. **I. Orović**, S. Stankovic, T. Thayaparan, "Time-Frequency Based Instantaneous Frequency Estimation of Sparse Signals from an Incomplete Set of Samples," *IET Signal Processing, Special issue on Compressive Sensing and Robust Transforms*, Volume:8, Issue: 3, pp. 239 - 245, ISSN: 1751-9675, May, 2014

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SCI lista:
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4. S. Stanković, L.J. Stanković, and **I. Orović**, "A Relationship between the Robust Statistics Theory and Sparse Compressive Sensed Signals Reconstruction," *IET Signal Processing*, 2014 (ISSN: 1751-9675, DOI: 10.1049/iet-spr.2013.0348)

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5. L.J. Stanković, **I. Orović**, S. Stanković, and M. Amin, "Compressive Sensing Based Separation of Nonstationary and Stationary Signals Overlapping in Time-Frequency," *IEEE Transactions on Signal Processing*, Vol. 61, no. 18, pp. 4562 – 4572, Sept. 2013. (ISSN: 1053-587X, DOI: 10.1109/TSP.2013.2271752)

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7. S. Stankovic, **I. Orovic**, N. Zaric, C. Ioana, "Two Dimensional Time-Frequency Analysis based Eigenvalue Decomposition Applied to Image Watermarking," *Multimedia Tools and Applications*, Vol.49, No. 3, pp. 529-543, 2010

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8. **I. Orović**, and S. Stanković, "L-statistics based Space/Spatial-Frequency Filtering of 2D signals in heavy tailed noise," *Signal Processing*, Volume 96, Part B, March 2014, Pages 190-202 (ISSN: 0165-1684, DOI: 10.1016/j.sigpro.2013.08.021)

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Link na rad:

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SCI lista:

<http://science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=K&Full=IET%20Signal%20Processing>



Univerzitet Crne Gore
adresa / address_Cetinjska br. 2
81000 Podgorica, Crna Gora
telefon / phone_00382 20 414 255
fax_00382 20 414 230
mail_rektorat@ucg.ac.me
web_www.ucg.ac.me
University of Montenegro

Broj / Ref 03-2400

Datum / Date 04.06.2020

UNIVERZITET CRNE GORE
ELEKTROTEHNIČKI FAKULTET

Prin	05.06.2020		
Org	608	Prilog	Vrijednost
02/1	608		

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“ br 44/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 04.06.2020. godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr Irena Orović bira se u akademsko zvanje redovni profesor Univerziteta Crne Gore za **oblasti Računarstvo i Digitalna obrada signala**, na Elektrotehničkom fakultetu Univerziteta Crne Gore, na neodređeno vrijeme.



**SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK**

Prof. dr Danilo Nikolić, rektor

Prof. dr Cornel Ioana

BIOGRAFIJA

Cornel Ioana received the Dipl.-Eng. degree in electrical engineering from the Romanian Military Technical Academy of Bucharest, Romania, in 1999 and the M.S. degree in telecommunication science and the Ph.D. degree in the electrical engineering field, both from University of Brest-France, in 2001 and 2003, respectively. Between 1999 and 2001, he activated as a Military Researcher in a research institute of the Romanian Ministry of Defense (METRA), Bucharest, Romania. Between 2003 and 2006, he worked as Researcher and Development Engineer in ENSIETA, Brest, France. Since 2006, he has been an Associate Professor-Researcher with the Grenoble Institute of Technology/GIPSA-lab. His current research activity deals with the signal processing methods adapted to the natural phenomena. His scientific interests are nonstationary signal processing, natural process characterization, underwater systems, electronic warfare, and real-time systems.

PREVOD BIOGRAFIJE

Cornel Ioana je diplomirao je elektrotehniku na Rumunskoj vojno-tehničkoj akademiji iz Bukurešta, Rumunija, 1999. godine. Zvanje magistra u oblasti telekomunikacije i doktora nauka na polju elektrotehnike stekao je na Univerzitetu u Brest-France, 2001., odnosno 2003. godine. Između 1999. i 2001. radio je kao vojni istraživač u institutu Ministarstva odbrane Rumunije (METRA), Bukurešt, Rumunija. Između 2003 i 2006, radio je kao istraživač i inženjer razvoja u ENSIETA-i, Brest, Francuska. Od 2006. godine je vanredni profesor-istraživač u Grenoble-ovom tehnološkom institutu/laboratorija GIPSA. Njegova trenutna istraživačka aktivnost su metode obrade signala prilagođenim prirodnim pojavama. Njegova naučna interesovanja su nestacionarna obrada signala, karakterizacija prirodnog procesa, podvodni sistemi, elektronsko ratovanje i sistemi u realnom vremenu.

DESET ZNAČAJNIJIH REFERENCI

1. **C. Ioana**, A. Jarrot, C. Gervaise, Y. Stéphan and A. Quinquis, "Localization in Underwater Dispersive Channels Using the Time-Frequency-Phase Continuity of Signals," IEEE Transactions on Signal Processing, vol. 58, no. 8, pp. 4093-4107, Aug. 2010, doi: 10.1109/TSP.2010.2048102.

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2. **C. Ioana**, A. Quinquis and Y. Stephan, "Feature Extraction From Underwater Signals Using Time-Frequency Warping Operators," IEEE Journal of Oceanic Engineering, vol. 31, no. 3, pp. 628-645, July 2006, doi: 10.1109/JOE.2006.875275.

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3. **C. Ioana**, C. Gervaise, Y. Stéphan, J. Mars, "Analysis of underwater mammal vocalisations using time-frequency-phase tracker", Applied Acoustics, vol. 71, no. 11, 2010, pp. 1070-1080, <https://doi.org/10.1016/j.apacoust.2010.04.009>.

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4. C. Cornu, S. Stankovic, **C. Ioana**, A. Quinquis and L. Stankovic, "Generalized Representation of Phase Derivatives for Regular Signals," IEEE Transactions on Signal Processing, vol. 55, no. 10, pp. 4831-4838, Oct. 2007, doi: 10.1109/TSP.2007.896280.

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5. J. J. Zhang, A. Papandreou-Suppappola, B. Gottin and **C. Ioana**, "Time-Frequency Characterization and Receiver Waveform Design for Shallow Water Environments," IEEE Transactions on Signal Processing, vol. 57, no. 8, pp. 2973-2985, Aug. 2009, doi: 10.1109/TSP.2009.2020363.

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6. **C. Ioana**, A. Quinquis, "Time-Frequency Analysis Using Warped-Based High-Order Phase Modeling", EURASIP Journal on Advances in Signal Processing, 2005, Article number: 798410 (2005). <https://doi.org/10.1155/ASP.2005.2856>

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Link knjige na sajtu renomiranog izdavača Elsevier:
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Service Ressources Humaines
SERRE Claude
Gestionnaire administrative
Claude.serre@grenoble-inp.fr
Tel : 04 76 82 52 75
21, avenue des Martyrs – CS 90624
38031 GRENOBLE Cedex 1

Grenoble, le 20 juillet 2020

ATTESTATION EMPLOYEUR

Je, soussignée AUBERT Céline, Directrice Administrative de l'Ecole Nationale Supérieure de l'Energie, l'Eau et l'Environnement certifie que

Monsieur Ioana Cornel est Fonctionnaire titulaire - Enseignant Chercheur, Maître de Conférences à Grenoble INP Ense3, et au laboratoire de recherche Gipsa-Lab.

Fait pour servir et valoir ce que de droit,


Céline AUBERT
Directrice Administrative
Ecole Nationale Supérieure
de l'Energie, l'Eau
et l'Environnement

École nationale
Supérieure de
l'Energie,
l'Eau et
l'Environnement

Grenoble INP – Ense³
21 Avenue des Martyrs
CS 90624
38031 GRENOBLE CEDEX 1

Tél : +33 (0)4 76 82 62 00

Attestation établie à la demande de l'intéressé

**École nationale
Supérieure de l'Energie,
l'Eau et l'Environnement**

Grenoble INP – Ense³
21 Avenue des Martyrs
CS 90624
38031 GRENOBLE CEDEX 1

Tél : +33 (0)4 76 82 62 00
Fax : +33 (0)4 76 82 63 01

<http://ense3.grenoble-inp.fr>

Resume

Education/Degrees

Habilitation to supervise research activities at the University of Grenoble Alpes - Electronique, Electrotechnique, Automatique et Traitement du Signal, November 28, 2012.

PhD degree (Électronique-Traitement du Signal), University of Brest, defended on 19 September 2003

Master of Science in 2001 "Science et Technologie de Télécommunications", University of Brest

1993-1999 Engineer in electronics and IT, Military Technical Academy of Bucharest

Career/Experience

Since 1st September 2006 - Grenoble INP / ENSE3
Associate Professor - GIPSA-lab

Since 2006, Head of the ISEE (Image and Signal for Energy and Environment) teaching-research platform of Grenoble INP ENSE3

Since 2008, In charge of Diploma Projects of PHELMA-ENSE3/SICOM students

2007-2008 and 2013-2017 – Elected member of ENSE3 Administrative board

Since 2008, In charge of international collaborations with Romania and Montenegro

2014-2019, Co-head of SIGMAPHY research team

2011-2014, Member of Advisory Board of Observatoire des Sciences de l'Univers de Grenoble (OSUG)

Since 2007, Principal Investigator of more than 18 research projects

2008-2009-2010 – Four months scientific stays with Villanova University and Arizona State University, funded in part by Office Of Naval Research Program

- Since November 2020, Founder and CEO of ALTRANS SAS: www.altransinnov.com
- Since Mai 2018; Co-Founder and Scientific advisor of MOTHYRS: www.mothyrs.com
- May 2012-November 2013 Scientific advisor to CYBERIO
- Research engineer at ENSIETA, Brest, 2003-2006
- PhD studies at ENSIETA, Brest, 2001-2003. PhD Director: André QUINQUIS
- Research Engineer at the Army Research Institute, Bucharest, Romania, 1999-2001



Cornel IOANA

Associate Professor Researcher
Grenoble INP, FRANCE
GIPSA-lab, 11 rue des Mathématiques,
38402 Saint Martin D'Herès
Date of birth: 08 November 1974
Email: cornel.ioana@gipsa-lab.grenoble-inp.fr
Phone: +33(0)632 352 371
N° ORCID: [0000-0001-6581-3000](https://orcid.org/0000-0001-6581-3000)

Teaching activities

[Cornel IOANA \(grenoble-inp.fr\)](http://Cornel.IOANA.grenoble-inp.fr)

Average volume of annual teaching: 240 hours

Lectures addressed to students
SICOM 3A- Master SIGMA
(Representations of Signals and
Models, Image-Video
Compressions);

Labworks in Signal Processing (ENSI
1A and 2A)

Supervision of industrial projects

Responsibilities of teaching modules:

- Labworks on Sensors and Information Processing (ENSE3 1A)
- Labworks on Transverse Signal Processing (SICOM 2A)

International teaching activities:

- Participation in the TEMPUS IV - RICUM project "Support in development and implementation of digital television and multimedia in Western Balkan countries" (2011-2014 in partnership with Viser School Belgrade, University of Ljubljana, University of Dures)
- Participation in teaching abroad, especially in the Summer School of Signal Processing organized by "Politehnica" University of Bucharest

Referent of three post-graduate educational modules: Digital Signal Processing, Video Compression,

Research activities

The full list of publications is available at: [Cornel IOANA](http://Cornel.IOANA)

Briefly:

- 50 international magazines (IEEE Transactions on Signal Processing, Elsevier Signal Processing, JASA, IEEE Ocean Engineering, ...);
- 8 chapters in books / collaborative works (Hermes Edition, Springer, Academic Press); including 2 between
- More than 150 papers in international and national conferences (IEEE ICASSP, Oceans, EUSIPCO, GRETSI, ..);
- Seven patents and protected software – five of them exploited by three start-ups I was implied with
- Since 2007, Principal Investigator and WP manager of more than 18 research projects for a total funding around 2.7 million euros (excluding PhD students funding). More than

60% of research projects has been funded by industrial/private contracts.

- Founder, co founder and scientific advisor for three start-ups.

Students supervision

[The full list of students I supervise is available here.](#)

Briefly:

- 5 PhD students in progress and 17 PhD students graduated: 950% supervision ration and average duration of the PhD – 35.7 months. 80% of my former PhD students work in Industry (public and private entities)
- Supervision of more than 10 post doctoral/research engineer and more than 40 undergraduate students

Collaborations

- Active member of different international scientific groups: IEEE Senior Member, IEEE Marine technology society, members of technical program of IEEE Communications conference and ECAI: [Cornel IOANA](#)
- Guest editor and co author of six collaborative journals and books: [Cornel IOANA](#)
- I contributed to the organization of different scientific events: [Cornel IOANA](#)

Distinctions

[Cornel IOANA](#)

- Award with Mothrys project at the General Electric Research and Innovation contest, 2019, in the Machine Learning field
- I am recipient of French "Prime d'Encadrement Doctoral et de la Recherche" since October 2008.
- I-lab 2018 award for MOTRHYS project;
- Grid'Up by ENEDIS award in 2017 for TRANSLOCATOR project;

Contact: Cornel IOANA
Mail: cornel.ioana@gipsa-lab.grenoble-inp.fr





**MOLBA ZA IMENOVANJE MENTORA
IZ REDA NASTAVNIKA ILI NAUČNIH
SA VJETNIKA/SARADNIKA UCG**

stud. 2022/23. god.

fakultet / institut	Elektrotehnički fakultet		
studijski program	Računari		
student (Ime Prezime)	Đorđe Stanković		
br. ind.	4/22		
predloženi prvi mentor <i>(popuniti ako predloženi mentor nije sa fakulteta UCG na kojem je organizovan studijski program)</i>	(Ime Prezime) Prof. dr Irena Orović	docent	<input type="checkbox"/>
	fakultet / institut: Elektrotehnički fakultet, Univerzitet Crne Gore	vanredni prof.	<input type="checkbox"/>
predloženi drugi mentor <i>(popuniti ako predloženi mentor nije sa fakulteta UCG na kojem je organizovan studijski program)</i>	(Ime Prezime) Prof. dr Cornel Ioana	redovni prof.	<input checked="" type="checkbox"/>
	fakultet / institut: Grenoble INP UGA	naučni sarad.	<input type="checkbox"/>
Datum: 06.07.2023.	Molbu podnosi student: (potpis)	viši nauč. sarad.	<input type="checkbox"/>
	Sa molbom saglasan prvi mentor: (potpis)	naučni savj.	<input type="checkbox"/>
	Sa molbom saglasan drugi mentor: (potpis)		

UNIVERZITET CRNE GORE
ELEKTROTEHNIČKI FAKULTET

Primljeno	06.07.2023		
Org. jed.	Broj	Prilog	Vrijednost
04/1	1022		