






PERSONAL INFORMATION GEMAN OANA



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Sex F | Date of birth 01/01/1976 | Nationality Romanian

CURRENT POSITION

Associate Professor Ph.D. and Habilitate Professor at the Department of Health and Human Development, “Stefan cel Mare” University of Suceava, Romania.

DEGREES

- 2013 - Postdoctoral Researcher in the field of Computer Science, “Progress and development through post-doctoral research and innovation in engineering and applied sciences – PRiDE Contract no. POSDRU/89/1.5/S/57083”.
- 2006 - PhD in the field of Electronics and Telecommunication, University “Gh. Asachi”, Iasi, Romania, Title of Thesis: *Contributions to knowledge based systems using nonlinear analysis, with medical applications*, Supervisor Prof. Dr. eng. Horia-Nicolai Teodorescu, Order no. 3824, dated 03.05.2006 of the Ministry of Education and Research.
- 2003 - Master of Science in Biomedical Engineering, University “Gh. Asachi”, Iasi, Romania.
- 2000 - Bachelor of Science degree in Medical Bioengineering, University of Medicine and Pharmacy “Gr. T. Popa”, Iasi, Romania, Faculty of Medical Bioengineering.

PROFESSIONAL POSITIONS AND EMPLOYMENT

- 2014
Associate Professor Ph.D. at the Department of Health and Human Development, “Stefan cel Mare” University of Suceava, Romania.
- 2010-2013
Lecturer Ph.D. at the Faculty of Electrical Engineering and Computer Science, Department of Computer, Electrical and Automatic, “Stefan cel Mare” University of Suceava, Romania.
- 2010 - 2013
Postdoctoral Researcher, “Stefan cel Mare” University of Suceava, Romania.
- 2008 - 2010
Key Account Manager at GlaxoSmithKline Company.
- 2005 - 2008
Medical Representative at MerckSharp&Dohme Company.
- 2001 – 2005
PhD. Student and Research Assistant, University “Gh. Asachi”, Iasi, Romania, Group of laboratories of Medical Engineering and Intelligent Systems.

TRAINING PERIODS AND POSTDOCTORAL RESEARCH

- 2010 - 2013
Postdoctoral Research Fellow, “Progress and development through post-doctoral research and innovation in engineering and applied sciences – PRiDE – Contract no. POSDRU/89/1.5/S/57083”. This project has been co-funded by the European Social Fund,

through Sectorial Operational Program Human Resources 2007-2013 (“Stefan cel Mare” University of Suceava, Romania).

Mother tongue Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B1
French	B2	B1	B1	B1	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

PERSONAL SKILLS

FIELDS OF COMPETENCE

Fuzzy Systems, Expert Systems, Intelligent Systems (1), Nonlinear Dynamics and Chaos Theory (2), Artificial Neural Networks and Recent methods in signal analysis and prediction (3), Wireless sensor, Neuro-fuzzy methods for the signal analysis and prediction (4), Applications of the signal analysis and prediction (5), Neural and neuro-fuzzy networks (6), Classification, Data-Mining and Knowledge-Discovery Data(7), Deep Learning and Machine Learning (8), Biomedical Applications (9).

PROFESSIONAL SOCIETIES

Member of The Center for Research in Fuzzy Systems, Intelligent Systems and Biomedical Engineering – CERFS, Member of Society for Neuroscience, Member of the IEEE International Neural Network Society, Member of Anti-Parkinson Romanian Association.

SCOLARSHIP AND AWARDS

1. ROMANIAN SOCIETY OF FUZZY SYSTEMS, <http://www.etc.tuiasi.ro/ECIT2002/Ecit2002.htm>, 17 – 20 iulie 2002, Iasi, Scholarship for young researchers participation at the International Conference ECIT'2002 (European Conferences on Intelligent Systems and Technologies) (2002).
2. Master of Science, with distinction (2002).
3. ROMANIAN SOCIETY OF FUZZY SYSTEMS, <http://www.etc.tuiasi.ro/SSIA2003/index.htm>, 19 – 20 septembrie 2003, Iasi, Scholarship for young researchers to participate in the International Symposium SIA'2003 (National Symposium on Intelligent Systems and Applications).
4. Diploma of Excellence in International Symposium SIA'2003 for a contribution in organizing the symposium and work in a top field).
5. Professor Bologna (2010).
6. Professor Habilitate (2018) http://www.usv.ro/index.php/ro/1/Domenii_doctorat/

I have a strong record in training personnel in my laboratory. In a given year, approximately 10 individuals are trained and worked in my laboratory. They are technical staff, premedical, medical, and honor students, master and doctoral students. They conduct independent studies for research thesis, coauthor research papers, and attend scientific meetings. The undergraduate and honor students have been accepted at top hospitals, or Medical Equipment Company, or at combined MD/PhD programs. Supervisor for master students and advisor for undergraduate students, total more than 200 students (The Faculty of Electrical Engineering and Computer Science and Health and Human Development Department).

SELECTED REPRESENTATIVE PUBLICATION (PRINCIPAL AUTHOR AND RELEVANT TO THE PROJECT) 2012 - 2021

1. **Oana Geman**, Ciprian Zamfir, Using wavelet for early detection of pathological tremor, EUSIPCO 2012 - European Association for Signal Processing, 20th European Signal Processing Conference, Bucuresti, România, August 27 - 31, 2012, <http://www.eusipco2012.org>, <http://IEEEExplore.ieee.org>, ISI Proceedings (2012).
2. **Oana Geman**, Ungurean I., Popa V., Turcu C.O., Găitan C.N., *Gait in Parkinson's Disease – Signal Processing and Modeling*, DAS - 11th International Conference on Development and Application Systems, May 17-19, 2012 - Suceava, Romania, <http://www.dasconference.ro/>, pp. 166-170 (2012).
3. **Oana Geman**, Cornel Octavian Turcu, Adrian Graur, *Parkinson's Disease Diagnosis using a Fuzzy Expert System*, in Advances in Electrical and Computer Engineering, Vol. 13, No. 1, pp. 41-46, 2013, ISSN: 1582-7445, **IF 0.661 (2013)**.
4. **Oana Geman**, *A Markov Model for Analyzing the Health Status of the Romanian Population until 2020*, Proceedings of the IEEE International Conference on E-Health and Bioengineering, EHB 2013, ISBN: 978-1-4799-2372-4 (2013).
5. **Oana Geman**, *Nonlinear Dynamics, Artificial Neural Networks and Neuro-Fuzzy Classifier for Automatic Assessing Tremor Severity*, Proceedings of the IEEE International Conference on E-Health and Bioengineering, EHB 2013, ISBN: 978-1-4799-2372-4 (2013).
6. **Oana Geman**, Hariton Costin, *Parkinson's Disease Prediction based on Multistate Markov Models*, International Journal of Computers Communications & Control, Vol. 8, Nr. 4, pg. 525-537, 2013, **IF 1.374**, ISSN: 1841-9836 (2013).
7. **Oana Geman**, Sorin Pohoată, Adrian Graur, *Acquisition and Processing data for Early Stage of Parkinson's Disease*, Revue Roumaine des Sciences Techniques – Serie Electrotechnique et Energetique, Vol. 58, nr. 3, pg. 324-334, 2013, **IF 1.036**, ISSN: 0035-4066 (2013).
8. **Oana Geman**, Hariton Costin, *Automatic Assessing of Tremor Severity Using Nonlinear Dynamics, Artificial Neural Networks and Neuro-Fuzzy Classifier*, in Advances in Electrical and Computer Engineering, Volume 14, Issue 1, On page(s): 133 – 138, **IF 0.661**, ISSN: 1582-7445, e-ISSN: 1844-7600 (2014).
9. **Oana Geman**, Saeid Sanei, Iuliana Chiuchisan, Adrian Graur, Aleš Procházka, and Oldřich Vyšata, *Towards an Inclusive Parkinson's Screening System*, Proceedings of the 18th International Conference on System Theory, Control and Computing, Sinaia, Romania, October 17-19, 2014 ISBN 978-1-4799-4602-0 ©2014 IEEE, pp. 476-480 (2014).
10. Iuliana Chiuchisan, **Oana Geman**, *A review of HDL-based system for real-time image processing used in tumors screening*, Proceedings of the 18th International Conference on System Theory, Control and Computing, Sinaia, Romania, October 17-19, 2014 ISBN 978-1-4799-4602-0 ©2014 IEEE (2014).
11. **Oana Geman**, Iuliana Chiuchisan, Andrei Coriolan Iuresi, Iulian Chiuchisan, Mihai Dimian, Anca Bosancu, Daniela Buliga, Mihai Covasa, *Intelligent system for a personalized diet of obese patients with cancer*, 2014 International Conference on Electrical and Power Engineering EPE 2014 Iași, 16-18 October 2014, <http://www.epe.tuiasi.ro/2014/> (2014).
12. Iuliana Chiuchisan, Hariton Nicolae Costin, **Oana Geman**, *Adopting the internet of things technologies in health care systems*, 2014 International Conference on Electrical and Power Engineering EPE 2014 Iași, 16-18 October 2014, <http://www.epe.tuiasi.ro/2014/> (2014).
13. Iuliana Chiuchisan, **Oana Geman**, *NeuroParkinScreen – A health care system for neurological disorders screening and rehabilitation*, 2014 International Conference on Electrical and Power Engineering EPE 2014 Iași, 16-18 October 2014, <http://www.epe.tuiasi.ro/2014/> (2014).
14. Iuliana Chiuchisan, **Oana Geman**, Andrei Tomegea, *Acquisition and Management of Biomedical Data using Internet of Things Concepts*, International Symposium on Fundamentals of Electrical Engineering, Bucuresti, 28-29 noiembrie, <http://isfee.elth.pub.ro/isfee2014/> (2014).

15. **Oana Geman**, Hariton Costin, *Role of environmental risk factors in Parkinson's disease: Bucovina region case study*, Environmental Engineering and Management Journal, <http://omicron.ch.tuiasi.ro/EEMJ/accepted.htm>, **IF 1.258**, (2015).
16. K Eftaxias, S Enshaeifar, **O Geman**, S Kouchaki, S Sanei, *Detection of Parkinson's tremor from EMG signals; a singular spectrum analysis approach*, Digital Signal Processing (DSP), 2015 IEEE International Conference on, 398-402, (2015).
17. MM Lungu, A Bosancu, **O Geman**, *Mini-review: Human Microbiome project—Recent trends and future challenges*, E-Health and Bioengineering Conference (EHB), (2015).
18. M Hăgan, A Constantinescu, **O Geman**, *Tremor analysis in neurological disorders using intelligent clothes*, E-Health and Bioengineering Conference (EHB), (2015).
19. I Chiuchisan, **O Geman**, M Prelipceanu, HN Costin, *HEALTH CARE SYSTEM FOR MONITORING OLDER ADULTS IN A "GREEN" ENVIRONMENT USING ORGANIC PHOTOVOLTAIC DEVICES*, Environmental Engineering & Management Journal (EEMJ) 15 (12), IF 1,096, (2016).
20. A Procházka, O Vyšata, M Schätz, H Charvátová, CPS Araujo, **O Geman**, *Video processing and 3D modelling of chest movement using MS Kinect depth sensor*, Computational Intelligence for Multimedia Understanding (IWCIM), (2016).
21. A Barleanu, M Hagan, **O Geman**, I Chiuchisan, *Wearable Ballistocardiography system for heartbeat detection*, Electrical and Power Engineering (EPE), (2016).
22. I Chiuchisan, **O Geman**, *Trends in embedded systems for e-Health and biomedical applications*, Electrical and Power Engineering (EPE), (2016).
23. **O Geman**, M Hagan, I Chiuchisan, *A novel device for peripheral neuropathy assessment and rehabilitation*, Electrical and Power Engineering (EPE), (2016).
24. RT Aldea, **O Geman**, I Chiuchisan, AM Lazar, *A comparison between healthy and neurological disorders patients using nonlinear dynamic tools*, Electrical and Power Engineering (EPE), (2016).
25. **O Geman**, I Chiuchisan, M Covasa, K Eftaxias, S Sanei, JGF Madeira, *Joint EEG—EMG signal processing for identification of the mental tasks in patients with neurological diseases*, Signal Processing Conference (EUSIPCO), 2016 24th European, 1598-1602, (2016).
26. MR Milici, **O Geman**, I Chiuchisan, LD Milici, *Graphical Method for Evaluating and Predicting the Human Performance in Real Time*, International Workshop Soft Computing Applications, 327-338, (2016).
27. **O Geman**, I Chiuchisan, M Covasa, C Doloc, MR Milici, LD Milici, *Deep Learning Tools for Human Microbiome Big Data*, International Workshop Soft Computing Applications, 265-275, (2016).
28. R Todorean, **O Geman**, I Chiuchisan, VE Balas, V Beiu, *Novel Method for Neurodegenerative Disorders Screening Patients Using Hurst Coefficients on EEG Delta Rhythm*, International Workshop Soft Computing Applications, 349-358, (2016).
29. I Chiuchisan, I Chiuchisan, **O Geman**, RM Milici, LD Milici, *Tremor Measurement System for Neurological Disorders Screening*, International Workshop Soft Computing Applications, 339-348, (2016).
30. **O Geman**, I Chiuchisan, M Covasa, *Data mining and knowledge discovery tools for human microbiome big data*, Computers Communications and Control ICCCC, (2016).
31. M Hagan, **O Geman**, *A wearable system for tremor monitoring and analysis*, Proceedings of the Romanian Academy Series A-Mathematics Physics Technical, (2016).
32. I Chiuchisan, DG Balan, **O Geman**, I Chiuchisan, I Gordin, *A security approach for health care information systems*, E-Health and Bioengineering Conference (EHB), 2017, 721-724, (2017).
33. S Sanei, **O Geman**, S Monajemi, K Eftaxias, D Jarchi, *Cooperative learning for biomedical signal processing and recognition*, E-Health and Bioengineering Conference (EHB), 2017, 687-692, (2017).
34. A Vasiliu, **O Geman**, *Modern instruments for establishing the connection between the personalized intake of dietary supplements and chronobiology*, E-Health and Bioengineering Conference (EHB), 2017, 675-678, (2017).

35. **O Geman**, I Chiuchisan, R Todorean, Application of Adaptive Neuro-Fuzzy Inference System for diabetes classification and prediction, E-Health and Bioengineering Conference (EHB), 2017, 639-642, (2017).
36. Otilia-Sanda Prelipceanu, Marius Prelipceanu, Nicolae Paraschiv, Alexandru Popa, **Oana Geman**, Investigations of Novel High-Temperature Resistant Polymers for Electro-Optical Applications in Signal Processing Systems, 2019/1 Jurnal Symmetry Volumul 11 Numărul 1 Pagini 60 (Q2) 2019
37. D Jude Hemanth, J Anitha, Antoanela Naaji, **Oana Geman**, Daniela Elena Popescu, A Modified Deep Convolutional Neural Network for Abnormal Brain Image Classification, decembrie 2019 Jurnal IEEE Access Volumul 7 Pagini 4275-4283 Editor IEEE (Q1) 2019
38. **IANA Geman**, O Postolache, IULIANA Chiuchisan, M Prelipceanu, D Jude Hemanth, An Intelligent Assistive Tool Using Exergaming and Response Surface Methodology for Patients With Brain Disorders, Published in: IEEE Access Page(s): 21502 – 21513 Date of Publication: 15 February 2019 Electronic ISSN: 2169-3536
DOI: 10.1109/ACCESS.2019.2898554 (Q1) 2019
39. H. Elahi, A Castiglione, G Wang, **O Geman** A Human-Centered Artificial Intelligence Approach for Privacy Protection of Elderly App Users in Smart Cities, Neurocomputing, 2021 articol Q1
40. N Kim-Soon, AI Abdulmageed, SA Mostafa, MA Mohammed, FA Musbah, **O. Geman**, A framework for analyzing the relationships between cancer patient satisfaction, nurse care, patient attitude, and nurse attitude in healthcare systems, Journal of Ambient Intelligence and Humanized Computing, 1-18 2 2021, articol Q1
41. KH Abdulkareem, MA Mohammed, A Salim, M Arif, **O Geman**, D Gupta, Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IOT in Smart Hospital Environment, IEEE Internet of Things Journal, 2021, articol Q1
42. Dr. Rajesh Kumar Dhanaraj, Dr. Lalitha Krishnasamy, Dr. **Oana Geman**, and Diana Roxana Izdrui, Black Hole and Sink Hole Attack Detection in Wireless Body Area Networks, [CMC] SI:AI, IoT, Blockchain Assisted Intelligent Solutions to Medical & Healthcare, 2020, articol Q1
43. Adrian Brezulianu, Octavian Postolache, Guojun Wang, Iuliana Chiuchisan, Muhammad Arif, **Oana Geman**, Epidemiologic Platform — Simulation of the Epidemiological Evolution for a Specific Pathology Using Integrated Epidemiological Modeling and GIS, [CMC] SI:AI, IoT, Blockchain Assisted Intelligent Solutions to Medical & Healthcare, 2020, articol Q1 (acceptat, in curs de publicare)
44. M Hnatiuc, **O Geman**, D Vicoveanu, G Motru, Aquatic Drone Control Using Inertial Sensors-Comparative Filtering Methods, 2020 IEEE 19th International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom), 2014-2020, 2020 ISI Proceedings
45. M Arif, G Wang, VE Balas, **O Geman**, A Castiglione, J Chen, SDN based communications privacy-preserving architecture for vanets using fog computing, Vehicular Communications 26, 100265 5 2020, articol Q1
46. M Arif, J Chen, G Wang, **O Geman**, VE Balas, Privacy preserving and data publication for vehicular trajectories with differential privacy, Measurement, 108675 2020, articol Q1
47. Y Dai, G Wang, J Dai, **O Geman**, A multimodal deep architecture for traditional Chinese medicine diagnosis, Concurrency and Computation: Practice and Experience 32 (19), e5781 2, 2020
48. O Postolache, **O Geman**, DJ Hemanth, R Alexandre, D Gupta, A Khanna Remote monitoring of physical rehabilitation of stroke patients using IoT and virtual reality, IEEE Journal on Selected Areas in Communications 39 (2), 562-573 4 2020, articol Q1
49. Q Khan, T Mahmood, K Hayat, M Arif, E Balas, Valentina, **O Geman**, Application of Single-Valued Neutrosophic Power Maclaurin Symmetric Mean Operators in MADM, Part of the Advances in Intelligent Systems and Computing book series 2020
50. A Brezulianu, C Aghion, M Hagan, O Geman, I Chiuchisan, AL Balan, Active Control Parameters Monitoring for Freight Trains, Using Wireless Sensor Network Platform and Internet of Things, Processes 8 (6), 639 1 2020, articol Q2

51. H Elahi, **O Geman**, Recent Healthcare Information Breaches and their Lessons, Archives of Surgical Research 1 (3), 17-23 2020
52. M Arif, G Wang, **O Geman**, VE Balas, P Tao, A Brezulianu, J Chen, SDN-based vanets, security attacks, applications, and challenges, Applied Sciences 10 (9), 3217 11 2020, articol Q2
53. M Arif, G Wang, T Peng, VE Balas, **O Geman**, J Chen, Optimization of communication in VANETs using fuzzy logic and artificial Bee colony, Journal of Intelligent & Fuzzy Systems, 1-13 6 2020
54. F Yoseph, NH Ahamed Hassain Malim, M Heikkilä, A Brezulianu, **O. Geman**, The impact of big data market segmentation using data mining and clustering techniques, Journal of Intelligent & Fuzzy Systems, 1-15 1 2020
55. Prelipceanu, Otilia-Sanda; Prelipceanu, Marius; Paraschiv, Nicolae; Popa, Alexandru; **Geman, Oana**; ,Investigations of Novel High-Temperature Resistant Polymers for Electro-Optical Applications in Signal Processing Systems, Symmetry,11,1,60, 2019,Multidisciplinary Digital Publishing Institute, articol Q2

BOOKS

1. **Geman (Voroneanu) Oana**, Teodorescu Horia-Nicolai, Zbancioc Marius, SISTEME BAZATE PE CUNOȘTINȚE. APLICAȚII, Editura Performantica, 294 pagini, ISBN 973-730-014-9, Iași, 2004.
2. **Geman Oana**, George Mahalu, Marius Prelipceanu, APLICAȚII ÎN VRML, Editura MATRIXROM, 285 pagini, ISBN 978-606-250-039-9, 2014.
3. **Geman Oana**, Roxana Todorean, ELEMENTE DE ANALIZĂ NELINIARĂ ȘI METODE DE MODERNE DE PROCESARE A SEMNALELOR BIOMEDICALE, Editura PIM; 174 pagini, ISBN 978-606-13-3659-3, 2017.
4. **Geman Oana**, Roxana Todorean, DE LA SISTEME EXPERT LA SISTEME INTELIGENTE , CU APLICAȚII ÎN MEDICINĂ, Editura PIM, 165 pagini, ISBN 978-606-13-3660-9, 2017.
5. **Geman Oana**, Marius Prelipceanu, Iuliana Chiuchisan, Aplicații ale Bioingineriei în Recuperarea Medicală, Editura PIM, 170 pagini, ISBN 978-606-13-4925-8, 2019.
6. Marius Prelipceanu, Oana Geman, Metode numerice de analiză a datelor experimentale, Ed. StudIS, 62 pagini, ISBN 978-606-48-0228-6, 2019.
7. Shoumen Palit Austin Datta, **Oana Geman**, Internet of Things (IoT) este o metafora, Editura PIM; ISBN 978-606-13-5821-2, 378 pagini, 2020.
8. SCHIPOR Ovidiu-Andrei, **GEMAN Oana**, CHIUCHISAN Iuliana, COVASA Mihai, From Fuzzy Expert System to Artificial Neural Network: Application to Assisted Speech Therapy, in "Artificial Neural Networks: Models and Applications", Publishing House InTech, ISBN: 978-953-51-2705-5, 28 pages, 2016.
9. **Oana Geman**, Octavian Postolache, Iuliana Chiuchisan, Mathematical Models Used in Intelligent Assistive Technologies: Response Surface Methodology in Software Tools Optimization for Medical Rehabilitation, Recent Advances in Intelligent Assistive Technologies: Paradigms and Applications, pp. 83-110, Springer, 2019.
10. S Sanei, S Monajemi, A Rastegarnia, **O Geman**, OS Hen,nMultitask Cooperative Networks and their Diverse Applications, Chapter 15 of Learning Approaches in Signal Processing, ISBN 9789814800501 - CAT# K416493 Edited by Wan-Chi Siu, Lap-Pui Chau, Liang Wang, Tieniu Tan By Pan Stanford Publisher, <https://www.crcpress.com/Learning-Approaches-in-Signal-Processing/Ring-Siu-Chau-Wang-Tang/p/book/9789814800501>, Published November 28, 2018.
11. Datta, Shoumen, Brittany Newell, James Lamb, Yifan Tang, Patrick Schoettker, Catherine Santucci, Theresa Gräfin Pachta, Sanjay Joshi, **Oana Geman**, Diana C. Vanegas, Carmen Gomes, Pramod P. Khargonekar, Molood Barati and Eric Scott McLamore (2020): Aptamers for Detection and Diagnostics (ADD) is a proposed mobile app acquiring optical data from conjugated quantum nanodots to identify molecules indicating presence of SARS-CoV-2 virus:

Why public health and healthcare need smartphone sensors as a platform for early detection and prevention. ChemRxiv. Preprint. <https://doi.org/10.26434/chemrxiv.13102877.v26>
 MIT Library <https://dspace.mit.edu/handle/1721.1/128017>

The autonomy and visibility of the scientific activity.

- (1) Six **books**, more than 70 **peer-reviewed publications** (as a main author), more than 40 abstracts and 52 **conference proceedings** (and oral presentation).
- (2) Director of two **research grants**, permanent member of ten national and international research grants.
 - Intelligent Techniques for Medical Applications using Sensor Network, PN-III-P3-3.1-PM-RO-CN-2018-0068, Romanian – China Grant (**grant director**)
 - *The Use of Nonlinear Methods and Parameters in Knowledge Based Systems, with Medical Applications*, Research Grant with CNCSIS (National Council for Scientific Research from Superior Education), no. 33557/2003, type AT, code 76, theme 46, 2001-2003, buget aprox. 11364EUR. (**grant director**)
 - *Knowledge-based system for determining eligibility of haemodynamically of heart valves for the subjects undergoing surgery for mitral prosthesis*, CNCSIS code 184, type TD, 2003-2005, buget aprox. 8000EUR (**grant director**)
 - *The relationship between gut microbiota and the host with application in the prevention and control of type 2 diabetes*, COMPETITIVENESS OPERATIONAL PROGRAMME 2014-2020 PRIORITY AXIS 1 – RESEARCH, TECHNOLOGICAL DEVELOPMENT AND INNOVATION (RD&I) TO SUPPORT ECONOMIC COMPETITIVENESS AND BUSINESS DEVELOPMENT, buget aprox. 2 billion EUR (permanent team member)
 - *Analysis of novel risk factors influencing control of food intake and regulation of body weight*, PNII 48/2013-2016 (permanent team member), http://eed.usv.ro/idei_48/index_en.html
 - Romanian Academy Priority Research Grant– 2004: COGNITIVE SYSTEMS AND APPLICATIONS, Theme: *Cognitive Systems based on Neuro-Fuzzy Techniques, Data Mining and Knowledge Discovery*; Applications, Phase I and II, 2004 (permanent team member).
 - *System for the Analysis and the Prediction of the Genomic Sequences based on Neuro-Fuzzy Data-Mining*, Research Grant with CNCSIS (National Council for Scientific Research from Superior Education), type TD, 2004, code 149, theme 99, (permanent team member).
 - Romanian Academy Priority Research Grant– 2003: Cognitive Systems based on Neuro-Fuzzy Techniques, Data Mining and Knowledge Discovery; Applications, Theme 2: *Cognitive Systems based on Neuro-Fuzzy Techniques and Applications in Speech Analysis and Synthesis and in Genomics and Theoretically Progresses for Stability Analysis of Dynamic Fuzzy Systems and Rigorous Conditions of Dynamics for Fuzzy Systems*, (GAR 155/2003), permanent team member).
 - *Boinstrumental complex biopsychic status assessment of the persons performing under stress*, research contract at no. 67/2002, (permanent team member).
 - *Poetic Arts: Universality of Aesthetic Experience in Individual Contexts (PoeticA) – Neuroaesthetics and ECG, EEG&fMRI signal processing* EEA GRANT, COLLABORATIVE RESEARCH GRANT, [HTTPS://UEFISCDI.GOV.RO/EEA-GRANTS-COLLABORATIVE-RESEARCH-PROJECTS](https://uefiscdi.gov.ro/eea-grants-collaborative-research-projects), 2020-2022 (membru permanent)
 - *Neuroaesthetics Curriculum and Module (ECG, EEG&fMRI signal processing)*
 - ANPCDEFP SEE 2014-2021 ROMANIA-NORWEGIAN GRANT 2020-2021
 - *Epidemiological Platform – Simulation of the Epidemiological Evolution for a Specific Pathology Using Integrated Epidemiological Modeling and GIS* CENTRIC, 2020-2022 GRANT Director de Proiect, Proiect de mobilitate pentru cercetători, cod PN-III-P1-1.1-MC-2019-0240, Contract nr. 51 din 08/08/2019.
 - *Director de Proiect, Proiect de mobilitate pentru cercetători, cod PN-III-P1-1.1-MC-2018-0828,*

- (3) total number of **citations**: aprox. **880 citation, h-index 15 (Google Academic)**
- (4) international **prizes**: IEEE International Neural Network Travel Grant (IJCNN'2004 Conference Student Paper Award)
- (5) **Reviewer** for peer reviewed journals and International Conference Proceedings: International Journal of Telemedicine and Application, Advances in Electrical and Computer Engineering, ECAI Proc., DAS Proc., EUSIPCO Proc., ECIT Proc., EHB Proc., ISFEE Proc., IJCCC Journal, ICSTCC Proc., EPE Proc., Computer Methods and Programs in Biomedicine Journal, Neural Computing and Applications Journal, etc.
- (6) **Member in**: The Center for Research in Fuzzy Systems, Intelligent Systems and Biomedical Engineering – CERFS, Society for Neuroscience, IEEE International Neural Network Society, Anti-Parkinson Romanian Association, etc.

My research work has been highly collaborating with several laboratory teams: from Technical University, Iasi, Romania, Prof. Dr. Horia-Nicolai Teodorescu. In addition, I have developed strong research and intellectual relationship at various levels with other scientists such as Prof. Saeid Sanei - Reader in Neurocomputing at the University of Surrey, United Kingdom, Prof. Ioan Petre - Professor of Computer Science and Head of the Computer Science Programme at Åbo Akademi University, Finland, Prof. Aleš Procházka, and Prof. Oldřich Vyšata (neurologist), Institute of Chemical Technology, Czech Republic.

February 20, 2021

Associate Prof. GEMAN OANA