PERSONAL INFORMATION

IFRIM George Adrian

⦿ Galați, Romania

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Sex M | Date of birth 05/07/1980 | Nationality Romanian

WORK EXPERIENCE

October 2014 – present

Assistant Professor
"Dunărea de Jos" University of Galați (www.ugal.ro)

▪ Teaching (courses and laboratories) and research activities

Sector Research and Education

July 2012 – September 2014

Research Engineer / Temporary Assistant Professor
"Dunărea de Jos" University of Galați (www.ugal.ro)

▪ Maintenance and operation of research installations, teaching activities (courses and laboratories)

Sector Research and Education

March 2007 – June 2008

Biotechnology Engineer
SC SMC Manager SA, Galați (closed company)

▪ Developing and research of new technologies for wastewater treatment

Sector Developing and research of new technologies for wastewater treatment

August 2006 – March 2007

Wastewater Plant Engineer
SC Rompak SRL, Pașcani (https://pakmaya.ro)

▪ Monitoring and control of the wastewater treatment plant

Sector Bakery yeasts production

October 2005 – July 2006

Production Engineer
SC Rompak SRL, Pașcani (https://pakmaya.ro)

▪ Coordination of production activities

Sector Bakery yeasts production

EDUCATION AND TRAINING

2008 – 2012

PhD
International co-tutelage between "Dunărea de Jos" University of Galați (Faculty of Automation, Computers, Electrical and Electronic Engineering) and Nantes university, France

▪ Systems Engineering, Process Engineering, Modeling and Control of Bioprocesses

2006 – 2008

Master
"Dunărea de Jos" University of Galați, Faculty of Food Science and Engineering Galați, Romania

▪ Food control and expertise

| 1998 – 2005 | **Engineer** |

"Dunărea de Jos" University of Galați, Faculty of Food Science and Engineering Galați, Romania

▪ Industrial Biotechnology

PERSONAL SKILLS

Mother tongue   Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B1	B1	A2	A2	A2

ADDITIONAL INFORMATION
LIST OF PUBLICATIONS

Books / Chapters ISI Indexed

Tebbani S, Titica M, **Ifrim G**, Barbu M, Caraman S. Optimal Operation of a Lumostatic Microalgae Cultivation Process, in Developments in Model-Based Optimization and Control: Distributed Control and Industrial Applications, eds. Olaru S, Grancharova A, Pereira FL, Springer, Germany, 2015; 209-235.

ISI Journal Papers

		FI*
1	Oprea SV, Bâra A, **Ifrim G**. Flattening the electricity consumption peak and reducing the electricity payment for residential consumers in the context of smart grid by means of shifting optimization algorithm. Computers & Industrial Engineering. 2018; 122:125-139.	2.623
2	Dima C, **Ifrim GA**, Coman G, Alexe P, Dima S. Supercritical CO_2 Extraction and Characterization of *Coriandrum Sativum* L. Essential Oil. Journal of Food Process Engineering. 2016; 39(2):204-211.	1.370
3	**Ifrim GA**, Titica M, Cogne G, Boillereaux L, Legrand J, Caraman S. Dynamic pH Model for Autotrophic Growth of Microalgae in Photobioreactor: A Tool for Monitoring and Control Purposes. *AIChe Journal*. 2014; 60(2):585-599.	2.836
4	Chirosca A, **Ifrim G**, Filipescu A, Caraman S. Multivariable H-infinity Control of Wastewater Biological Treatment Processes. *Control Engineering and Applied Informatics*. 2013; 15(1):11-21.	0.695
5	**Ifrim GA**, Titica M, Barbu M, Boillereaux L, Cogne G, Caraman S, Legrand J. Multivariable Feedback Linearizing Control of Chlamydomonas reinhardtii Photoautotrophic Growth Process in a Torus Photobioreactor. *Chemical Engineering Journal*. 2013; 218:191-203.	6.216
6	Barbu M, Ionescu T, **Ifrim G**, Caraman S, Cristea V, Ceanga E. Results Regarding the Water Quality Control in Recirculating Aquaculture Systems. *Journal of Environmental Protection and Ecology*. 2012; 13(1):39-47.	0.774
7	Barbu M, Caraman S, **Ifrim G**, Bahrim G, Ceanga E. State Observers for Food Industry Wastewater Treatment Processes. *Journal of Environmental Protection and Ecology*. 2011; 12(2):678-687.	0.774
8	Caraman S, Barbu M, Ionescu T, **Ifrim G**, Cristea V, Ceanga E. The analysis of the dynamic properties of the wastewater treatment process in a recirculating aquaculture system. *Romanian Biotechnological Letters*. 2010; 15(4):5457-5466.	0.396
9	Palela M, **Ifrim G**, Barbu M, Bahrim G, Caraman S. Strategies for the Aerobic Biological Treatment of the Dairy Wastewaters in Controlled Conditions. *Environmental Engineering and Management Journal*. 2010; 9(3):399-405.	1.096
	Total	**16.78**

*   impact factor from Journal Citation Reports® 2016 (Web of Science)

ISI Proceedings

1. Luca L, **Ifrim G**, Ceanga E, Caraman S, Barbu M. Optimization of the Wastewater Treatment Processes Based on the Relaxation Method. 5th International Symposium on Electrical and Electronics Engineering, ISEEE 2017, Oct. 20 – 22, Galati, Romania, IEEEXplore Digital Library, 2017:1-4.

2. Baicu L, Frangu L, **Ifrim G**, Caraman S. Control of the Yeast Growth Process Using an Image Processing-Based Transducer. 21st International Conference on System Theory, Control and Computing, ICSTCC 2017, Oct. 19 – 21, Sinaia, Romania, IEEEXplore Digital Library, 2017:453-458.

3. Sbarciog M, **Ifrim GA**, Caraman S, Vande Wouwer A. Multivariable Predictive Control of a Photobioreactor System. 18th International Carpathian Control Conference, ICCC 2017, May 28 – 31, Sinaia, Romania, IEEEXplore Digital Library, 2017:210-215.

4. Barbu M, Ceanga E, Vilanova R, Caraman S, **Ifrim G**. Extremum-Seeking Control Approach Based on the Influent Variability for Anaerobic Digestion Optimization. 20th World Congress of the International-Federation-of-Automatic-Control, IFAC 2017, Jul. 09 – 14, Toulouse, France, IFAC-PapersOnLine. 2017; 50(1):12623-12628.

5. Caraman S, Barbu M, **Ifrim G**, Titica M, Ceanga E. Anaerobic Digester Optimization Using Extremum Seeking and Model-Based Algorithms. A Comparative Study. 20th World Congress of the International-Federation-of-Automatic-Control, IFAC 2017, Jul. 09 – 14, Toulouse, France, IFAC-PapersOnLine. 2017; 50(1):12673-12678.

6. Barbu M, **Ifrim G**, Ceanga E, Caraman S, Petre E, Selisteanu D. Input concentration estimation for an anaerobic digestion process using EKF and SM observers. A comparative study. 20th International Conference on System Theory, Control and Computing, ICSTCC 2016, Oct. 13 – 15, Sinaia, Romania, IEEEXplore Digital Library, 2016:186-191.

7. Caraman S, **Ifrim G**, Barbu M, Ceangă E. Optimization of a multipurpose biotechnological plant containing a photobioreactor. 20th International Conference on System Theory, Control and Computing, ICSTCC 2016, Oct. 13 – 15, Sinaia, Romania, IEEEXplore Digital Library, 2016:192-197.

8. Miron M, Frangu L, **Ifrim G**, Caraman S. Modeling of a wastewater treatment process using neural networks. 20th International Conference on System Theory, Control and Computing, ICSTCC 2016, Oct. 13 – 15, Sinaia, Romania, IEEEXplore Digital Library, 2016:210-215.

9. Baicu L, **Ifrim G**, Barbu V, Frangu L, Caraman S. Stage evaluation of cell growth in yeast culture through image processing. 20th International Conference on System Theory, Control and Computing, ICSTCC 2016, Oct. 13 – 15, Sinaia, Romania, IEEEXplore Digital Library, 2016:704-709.

10. **Ifrim G**, Titica M, Barbu M, Ceanga E, Caraman S. Optimization of a Microalgae Growth Process in Photobioreactors. 11th IFAC Symposium on Dynamics and Control of Process Systems including Biosystems, DYCOPS-CAB 2016, Jun. 6 - 8, Trondheim, Norway, IFAC-PapersOnLine. 2016; 49(7):218-223.

11. **Ifrim GA**, Barbu M, Ceanga E, Caraman S. Modeling and control of a multipurpose biotechnological plant. Photobioreactor modeling. 19th International Conference on System Theory, Control and Computing, ICSTCC 2015, Oct.14 –16, Cheile

Gradistei, Romania, IEEEXplore Digital Library, 2015:55-60.

12 Barbu M, **Ifrim GA**, Ceanga E, Caraman S. Modelling of a multipurpose biotechnological plant in view of automatic control. Process modelling and control properties analysis. 19th International Conference on System Theory, Control and Computing, ICSTCC 2015, Oct.14 –16, Cheile Gradistei, Romania, IEEEXplore Digital Library, 2015:61-68.

13 **Ifrim GA**, Baicu L, Caraman S, Titica, M. Dynamic modeling of the pH in lactic acid fermentation processes. 19th International Conference on System Theory, Control and Computing, ICSTCC 2015, Oct.14 –16, Cheile Gradistei, Romania, IEEEXplore Digital Library, 2015:225-230.

14 Caraman S, **Ifrim G**, Ceanga E, Barbu M, Titica M, Precup R-E. Extremum seeking control for an anaerobic digestion process. 19th International Conference on System Theory, Control and Computing, ICSTCC 2015, Oct.14 –16, Cheile Gradistei, Romania, IEEEXplore Digital Library, 2015:243-248.

15 Luca L, Barbu M, **Ifrim G**, Caraman S. Analysis of phosphorus removal performances in a municipal treatment plant. 19th International Conference on System Theory, Control and Computing, ICSTCC 2015, Oct.14 –16, Cheile Gradistei, Romania, IEEEXplore Digital Library, 2015:415-420.

16 Baicu L, **Ifrim G**, Frangu L, Caraman S. Viability diagnosis in biotechnological cultures through image processing. 19th International Conference on System Theory, Control and Computing, ICSTCC 2015, Oct.14 –16, Cheile Gradistei, Romania, IEEEXplore Digital Library, 2015:770-775.

17 Chirosca A, Luca L, **Ifrim G**, Caraman S. Robust control of the biological wastewater treatment process. 17th International Conference on System Theory, Control and Computing, ICSTCC 2013, Oct.11 – 13, Sinaia, Romania, IEEEXplore Digital Library, 2013:113-118.

Proceedings of Other International Conferences

1 Tebbani S, Titica M, **Ifrim G**, Caraman S. Control of the light-to-microalgae ratio in a photobioreactor. 18th International Conference on System Theory, Control and Computing, ICSTCC 2014, Oct.17 – 19, Sinaia, Romania.

2 **Ifrim GA**, Titica M, Boillereaux L, Caraman S. Feedback linearizing control of light-to-microalgae ratio in artificially lighted photobioreactors. 12th IFAC Symposium on Computer Applications in Biotechnology, CAB 2013, Dec. 16 – 18, Mumbai, India, IFAC Proceedings Volumes, 2013; 46(31):169-174.

3 Chirosca A, Dumitrascu G, **Ifrim G**, Titica M, Caraman S. An analysis concerning the robust control of the biological wastewater treatment processes using fuzzy techniques. 16th International Conference on System Theory, Control and Computing, ICSTCC 2012, Oct.12 – 14, Sinaia, Romania: 1-6.

4 **Ifrim G**, Titica M, Cogne G, Boillereaux L, Caraman S, Legrand J. Nonlinear Multivariable Control of Chlamydomonas reinhardtii Photosynthetic Growth in a Torus Photobioreactor. XIII[eme] Congres de la Societe Francais de Genie des Procedes, SFGP 2011, Nov.29 – Dec.1, Lille, France.

5 Barbu M, **Ifrim G**, Caraman S, Bahrim G. QFT control of dissolved oxygen concentration in a wastewater treatment pilot plant. 11th IFAC Symposium on Computer Applications in Biotechnology, CAB 2010, Jul.7 – 9, Leuven, Belgium, IFAC Proceedings Volumes, 43(6):233-238.

Other Journal Publications

1 Ungureanu C, **Ifrim G**, Ene A, Bahrim G, Turturică M. Chemical and Microbiological Analysis of Water Quality from Lower Danube Region. Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics, Physics, Theoretical Mechanics. 2014; 37(2):209-215.

2 **Ifrim G**, Barbu M, Titica M, Boillereaux L, Caraman S. Control of the microalgae photosynthetic growth in a torus photobioreactor. *Annals of the University of Craiova – series: Automation, Computers, Electronics and Mechatronics*. 2010; 7(1):32-38.

3 Palela M, **Ifrim G**, Bahrim G. Microbiological and biochemical characterization of dairy and brewery wastewater microbiota. *The Annals of the University Dunarea de Jos of Galati; Fascicle VI – Food Technology*. 2008; 31:23-30.

PROJECTS

International Projects	Responsibility
1 „Cross-border interdisciplinary cooperation for the prevention of natural disasters and mitigation of environmental pollution in Lower Danube Euroregion – **2013 ÷ 2015**, MIS ETC 1676. Project Coordinator: "Dunărea de Jos" University of Galați, Romania. Partners: Institute of Zoology, Chișinău, Moldova; Institute of Geology and Seismology Chișinău, Moldova; Ukrainian Scientific Center for Sea Ecology, Odesa, Ukraine.	Dec. 2013 – Jul. 2014 Environmental Researcher

National Projects	Responsibility
1 The Improvement of the Qualitative Parameters for the Wastewater Treatment Processes from the Food Industry through Advanced Control Systems (APEPUR) – **2006 ÷ 2008**, MENER 717 / 25.07.2006. Coordinator: "Dunarea de Jos" University of Galati, Partners: University of Craiova, SC SMC Manager SA Galati.	Researcher
2 Advanced Automatic Control Techniques of the Effluents Quality and Recycling Systems of Intensive Aquaculture (ACVACON) – **2007 ÷ 2010**, PN2, No. 31062 / 18.09.2007. Coordinator: "Dunarea de Jos" University of Galati, Partners: SC SMC Manager SA Galati, Research and Development Institute	Researcher

for Aquatic Ecology, Fishing and Aquaculture Galati.

3	Excellence in research through doctoral and postdoctoral scholarships (ExcelDOC) – **2014 ÷ 2015**, POSDRU/159/1.5/S/132397. Coordinator: University Politehnica of Bucharest; Partner: "Dunarea de Jos" University of Galati.	Postdoc Researcher
4	Advanced control system of a biorefinery plant (BIOCON) – **2014 ÷ 2017**, PN-II-PT-PCCA-2013-4-0070. Coordinator: "Dunarea de Jos" University of Galati. Partners: University of Craiova, Polytechnic University of Timisoara and SC TeamNet Engineering SRL, Galati.	Researcher
5	Advanced control systems for bioprocesses in food industry (ADCOSBIO) – **2014 ÷ 2017**, PN-II-PT-PCCA-2013-4-0544. Coordinator: University of Craiova. Partners: Polytechnic University of Timisoara, "Dunarea de Jos" University of Galati and SC Moara Calafatului SRL.	Researcher

CITATION REPORT

	ISI Web of Science	Scopus	Google Scholar
Citations (without self cit.)	59	> 80	> 140
h-index	**4**	**4**	**6**

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