

LISTĂ DE LUCRĂRI

Ș.I.dr.ing. Coman Simina - Maria

Lista completă de lucrări ale candidatului va fi structurată astfel:

- a) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări prevăzute de prezentul articol;
- b) teza sau tezele de doctorat;
- c) brevete de invenție și alte titluri de proprietate industrială;
- d) cărți și capitole în cărți;
- e) articole/studii în extenso, publicate în reviste din fluxul științific internațional principal;
- f) publicații în extenso, apărute în lucrări ale conferințelor internaționale de specialitate;
- g) alte lucrări și contribuții științifice.

a) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări prevăzute de prezentul articol;

1. A. Țigan, **S. M. Coman** and E. V. Moisi, "Comparison of Machine Learning Algorithms Used for Phishing Detection," *2025 18th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, Romania, 2025, pp. 1-4, doi: 10.1109/EMES65692.2025.11045637. <https://ieeexplore.ieee.org/document/11045637>
2. Moisi, E.V.; Mihalca, B.C.; **Coman, S.M.**; Pater, A.M.; Popescu, D.E. Romanian Fake News Detection Using Machine Learning and Transformer-Based Approaches. *Appl. Sci.* 2024, 14, 11825. <https://doi.org/10.3390/app142411825>
3. E. V. Moisi, **S. M. Coman**, G. Gabor, A. M. Pater, O. Coman and D. -E. Popescu, "Comparing the Effectiveness of Machine Learning Algorithm Implementations Based on the Use of Cloud Services," *2023 17th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, Romania, 2023, pp. 1-4, doi: 10.1109/EMES58375.2023.10171716. <https://ieeexplore.ieee.org/document/10171716>
4. Francisc Ioan Hathazi, Vasile Darie Șoproni, Mircea Nicolae Arion, Carmen Otilia Molnar, **Simina Vicaș (Coman)**, Olimpia Smaranda Mintas, The Use of Microwave Drying Process to the Granular Materials, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 10, No.11, 2019, pp.23-29, ISSN : 2156-5570 (Online), ISSN : 2158-

107X (Print), (DOI) : 10.14569/IJACSA.2019.0101104 WOS:
<https://thesai.org/Publications/ViewPaper?Volume=10&Issue=11&Code=IJACSA&SerialNo=4>

5. Leuca Teodor, **Coman Simina**, Nistor Daniel, Bandici Livia, Codrean Marius, Perte Marcel, 2019, *Neural Network Modeling of a Drying Process in Radio Frequency Field*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, ISBN 978-1-5090-6073-3, pp.193-196. <https://ieeexplore.ieee.org/document/8795090>
6. Bandici Livia, Leuca Teodor, **Coman Simina**, 2017, *The Use of Microwave Field Energy in the Drying Process of Wooden Sticks*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, Electronic ISBN: 978-1-7281-0773-8, pp.193-196. <https://ieeexplore.ieee.org/document/7980390>
7. **Coman Simina**, Coman Ovidiu, Leuca Teodor, 2015, *Optimal design of the microwave heating process using Neural Networks and Genetic Algorithms*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, Print ISBN 978-1-4799-7649-2, pp. 1-4. <https://ieeexplore.ieee.org/document/7158407>
8. Laza Marcela, **Coman Simina**, Leuca Teodor, 2015, *Temperature variation in the process of heating oak wood using radio frequency*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, Print ISBN 978-1-4799-7649-2, pp. 1-4. <https://ieeexplore.ieee.org/document/7158408>
9. **Coman Simina**, Coman Ovidiu, Leuca Teodor, Laza Marcela, Francisc Slovac, 2014, *The Use of Experimental Design in Order to Optimize the Heating Parameters of Wood Material Inside a Microwave Applicator. Experimental Results*, Fundamentals of Electrical Engineering, International Symposium, ISBN 978-1-4799-6820-6, DOI: [10.1109/ISFEE.2014.7050587](https://doi.org/10.1109/ISFEE.2014.7050587), IEEE, Proceeding ISI, pg.1-4. <https://ieeexplore.ieee.org/document/7050587>
10. **Coman Simina**, Leuca Teodor, Coman Ovidiu, 2013, Optimization of the dielectric position inside the microwave applicator, Revue roumaine des sciences techniques Série Électrotechnique et Énergétique ISSN 0035-4066, Issue 4, pp.357-366. <http://revue.elth.pub.ro/index.php?action=main&year=2013&issue=4>

b) teza sau tezele de doctorat;

Coman Simina – Maria: „Contribuții privind analiza numerică a câmpurilor electromagnetice în regim de microunde și termic cuplate în sisteme cu microunde. Aplicații la tratarea biologică a semințelor.”, Universitatea Oradea, 2012.

c) brevete de invenție și alte titluri de proprietate industrială;

d) cărți și capitole în cărți;

1. Coman Simina Maria - Analiza numerică a câmpurilor electromagnetice în regim de microunde și termic cuplate. Proiectarea optimă a unui aplicator, Editura Universității din Oradea, 2015, ISBN 978-606-10-1611-2.
2. Zmaranda Doina, Bonaciu Marius, Coman Simina – Algoritmi și tehnici de programare, Lucrări practice de laborator, Editura Universității din Oradea, ISBN: 978-606-10-1895-6, 2017.
3. Bandici Livia, Coman Simina, Leuca Teodor - Numerical Methods for Analysis of Energy Consumption in Drying Process of Wood, Chapter 25 , Book Title: Numerical Methods for Energy Applications, Springer, https://doi.org/10.1007/978-3-030-62191-9_25, 2021, pp.679-706.
4. Coman Simina – E-commerce, curs, Editura Universității din Oradea, 2022, ISBN:978-606-10-2216-8.

e) articole/studii în extenso, publicate în reviste din fluxul științific internațional principal;

1. Moisi, E.V.; Mihalca, B.C.; **Coman, S.M.**; Pater, A.M.; Popescu, D.E. Romanian Fake News Detection Using Machine Learning and Transformer-Based Approaches. Appl. Sci. 2024, 14, 11825. <https://doi.org/10.3390/app142411825>
2. Telea Darius, **Coman Simina**, Bandici Livia, Codrean Marius, Leuca Teodor, 2019, *Aspects Concerning the Process of Induction Heating Using Design of Experiments*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.12, Nr.1, pp. 61-66.
3. Codrean Marius, **Coman Simina**, Popa Monica, Codrean Mihaela, 2017, *Optimizing the process of inductive heating in volume using numerical simulations*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.10, Nr.2, pp. 19-24.
4. Codrean Marius, **Coman Simina**, Popa Monica, Gordan Mircea, Giurgiu Nicu Constantin, 2016, *Numerical analysis of the induction heating in volume of a half-finished product, neglecting the end effect*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.9, Nr.2, pp. 11-14.
5. Slovac Francisc, **Coman Simina**, Gordan Mircea, 2016, *The method of optimizing the drying process of an oak blank in a radiofrequency electromagnetic field*, Journal

of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.9, Nr.2, pp. 73-76.

6. Codrean Marius, **Coman Simina**, Popa Monica, Leuca Teodor, Giurgiu Nicu Constantin, 2016, *Modelling the process of induction heating in volume of a bar strip using Flux 2 D software coupled with Minitab experimental design software*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.9, Nr.1, pp. 5-8.
7. Coman Ovidiu, Leuca Teodor, **Coman Simina**, 2014, *Numerical modeling of wheat seeds in microwave field*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.7, Nr.1, pp. 35-38.
8. Coman Ovidiu, Leuca Teodor, **Coman Simina**, 2014, *Designing Solutions using response surface technique*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.7, Nr.1, pp. 31-34.
9. Laza Marcela, Leuca Teodor, **Coman Simina**, Pantea Mircea, Slovac Francisc, 2014, *Numerical Modeling of heating process in an electromagnetic microwave field using Comsol Multiphysics software*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.7, Nr.2, pp. 21-24.
10. **Coman Simina**, Leuca Teodor, Coman Ovidiu, Bandici Livia, 2013, *Analysis of Variance in the process of drying a dielectric material inside a microwave applicator*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.6, Nr.1, pp. 13-16.
11. **Coman Simina**, Leuca Teodor, Coman Ovidiu, Laza(Bulc) Marcela, 2013, *Full factorial design for the optimization of a waveguide position*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.6, Nr.1, pp. 17-20.
12. Laza (Bulc) Marcela, Leuca Teodor, Bandici Livia, Pantea Mircea, **Coman Simina**, 2013, *Analyzing the variance of heating/Drying parameters in a microwave field for oak planks*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.6, Nr.1, pp. 55-58.
13. Molnar Carmen Otilia, Leuca Teodor, **Coman Simina**, Arion Mircea, Soproni Vasile Darie, 2013, *Results Concerning the Optimization of Factors that Interfere in the Drying Process of Skins in Microwave Field*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.6, Nr.1, pp. 83-86.
14. **Vicaş Simina**, Şoproni Darie, Molnar Carmen, Arion Mircea, Hathazi Francisc Ioan, 2012, *Analysis Variation of Drying Parameters of Corn Seeds Processed in Microwave Field*.

- Thermal Field Analysis*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.5, Nr.1, pp. 225-228.
15. **Vicaș Simina**, Leuca Teodor, Șoproni Darie, Arion Mircea, Molnar Carmen, Hathazi Francisc Ioan, 2012, *Experimental Results of Wheat Seeds Processed in Microwave Field*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.5, Nr.1, pp. 269-272.
 16. Coman Ovidiu, Leuca Teodor, **Coman Simina**, 2012, *Numerical Modeling of Drying Wood in High Frequency Electromagnetic Field*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.5, Nr.2, pp. 37-40
 17. Coman Ovidiu, Bandici Livia, Leuca Teodor, **Coman Simina**, 2012, *Electrothermal System for Microwave Heating. Elements of Computer Aided Design of the Applicator*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.5, Nr.2, pp. 41-44.
 18. Șoproni Darie, **Vicaș Simina**, Leuca Teodor, Arion Mircea, Hathazi Francisc Ioan, Molnar Carmen, 2012, *High frequency electromagnetic field modeling and experimental validation of the microwave drying of wheat seeds*, Progress in Electromagnetics Research B 41, pp.419-439.
 19. Laza (Bulc)Marcela, Bandici Livia, Leuca Teodor, **Vicas Simina**, Pantea Mircea, 2012, *Thermal Field Distribution and Numerical Modeling in the Process of Melon Microwave Drying*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.5, Nr.2, pp. 75-78.
 20. **Vicaș Simina**, Șoproni Darie, Leuca Teodor, Arion Mircea, Hathazi F.Ioan, Molnar Carmen Otilia, 2011, *Parameter variation of wheat seeds dried in microwave field*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.4, Nr.1, pp.237-240.
 21. Arion Mircea,Șoproni Darie, **Vicaș Simina**, Leuca Teodor, Hathazi F.Ioan, Molnar Carmen, Bandici Livia, 2011, *Microwave Drying Process of Corn Seeds*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.4, Nr.1, pp.11-14 .
 22. Șoproni Darie, **Vicaș Simina**, Hathazi F.Ioan, Arion Mircea , Molnar Carmen, Coman Ovidiu, 2011, *The study of drying characteristics of wheat seeds in microwave field for different processing conditions*, Journal of Electrical and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.4, Nr.2, pp. 103-106.
 23. **Vicaș Simina**, Șoproni Darie, Leuca Teodor, Arion Mircea, Hathazi F.Ioan, Molnar Carmen, 2011, *Experimental Results of Corn Seeds Dried in Microwave Field*, Journal of Electrical

and Electronics Engineering, ISSN:1844 – 6035, Editura Universitatii din Oradea, Romania, Vol.4, Nr.2, pp. 107-110.

f) publicații in extenso, apărute în lucrări ale conferințelor internaționale de specialitate;

1. A. Țigan, **S. M. Coman** and E. V. Moisi, "Comparison of Machine Learning Algorithms Used for Phishing Detection," *2025 18th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, Romania, 2025, pp. 1-4, doi: 10.1109/EMES65692.2025.11045637.
2. E. V. Moisi, **S. M. Coman**, G. Gabor, A. M. Pater, O. Coman and D. -E. Popescu, "Comparing the Effectiveness of Machine Learning Algorithm Implementations Based on the Use of Cloud Services," *2023 17th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, Romania, 2023, pp. 1-4, doi: 10.1109/EMES58375.2023.10171716.
3. Leuca Teodor, **Coman Simina**, Nistor Daniel, Bandici Livia, Codrean Marius, Perte Marcel, 2019, *Neural Network Modeling of a Drying Process in Radio Frequency Field*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, ISBN 978-1-5090-6073-3, pp.193-196
4. Bandici Livia, Leuca Teodor, **Coman Simina**, 2017, *The Use of Microwave Field Energy in the Drying Process of Wooden Sticks*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, Electronic ISBN: 978-1-7281-0773-8, pp.193-196.
5. Laza Marcela, **Coman Simina**, Leuca Teodor, 2015, *Temperature variation in the process of heating oak wood using radio frequency*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, Print ISBN 978-1-4799-7649-2, pp. 1-4.
6. **Coman Simina**, Coman Ovidiu, Leuca Teodor, 2015, *Optimal design of the microwave heating process using Neural Networks and Genetic Algorithms*, Engineering of Modern Electric Systems (EMES), Proceeding ISI, IEEE, Print ISBN 978-1-4799-7649-2, pp. 1-4.
7. **Coman Simina**, Coman Ovidiu, Leuca Teodor, Laza Marcela, Francisc Slovak, 2014, *The Use of Experimental Design in Order to Optimize the Heating Parameters of Wood Material Inside a Microwave Applicator. Experimental Results*, Fundamentals of Electrical Engineering, International Symposium, ISBN 978-1-4799-6820-6, DOI: [10.1109/ISFEE.2014.7050587](https://doi.org/10.1109/ISFEE.2014.7050587), IEEE, Proceeding ISI, pg.1-4.
8. **Coman Simina**, Leuca Teodor, Coman Ovidiu, Laza Marcela, 2013, *Statistical optimization of dielectric's material placement inside a microwave applicator using response surface method*, Advanced Topics in Electrical Engineering (ATEE), IEEEExplore, Proceeding ISI, pp.1-6.

9. Lucaci Codruța, **Coman (Vicaș) Simina**, Daroczi Karoly, 2012, *Numerical Modelling of Microwave Dried Potato Flakes*, International Conference on Science and Technique in the Agri-Food Business, University of Szeged, Faculty of Engineering, pp.35-40.
10. **Vicaș (Coman) Simina**, 2012, *Experimental data on microwave dried corn seeds*, International Symposium "Risk Factors for Environment and Food Safety", Universitatea din Oradea, Protectia Mediului, pp.204-209.
11. **Vicaș (Coman) Simina**, 2012, *Numerical modelling of fruits dried in microwave field*, International Symposium "Risk Factors for Environment and Food Safety", Universitatea din Oradea, Protectia Mediului, pp.33-40.

g) alte lucrări și contribuții științifice.

1. **Coman Simina**, Mintas Olimpia, Mintas Ioan, 2015, *The behaviour of apple fruits dried in microwave field*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol. 24, pp. 141-146.
2. **Coman Simina Maria**, 2014, *Effect of microwave energy on drying Barley Seeds*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol. 22, pp. 126-131.
3. **Coman Simina Maria**, 2014, *Drying Barley Seeds using different levels of the Microwave Power*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol. 22, pp. 132-137.
4. Vicaș Gabriela, Mintaș Olimpia, **Coman Simina**, 2013, *Nymphaea lotus var. thermalis-present and perspective*, Natural resources and sustainable development, ISBN 978-3-902938-02-2, Editura Universitatii din Oradea, pp.441-446.
5. **Coman Simina**, 2013, *Microwave drying of oat seeds in various conditions*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol. 21, pp. 533-538.
6. **Coman Simina**, 2013, *The use of high frequency field in order to destroy pests*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol. 21, Anul 19, pp. 539-544.
7. **Coman Simina**, 2012, *Thermal Processing of Wood.Numerical Modelling*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol. 8, Anul 17, pp. 209-216.
8. **Coman Simina**, 2012, *Numerical Simulation of Wood Drying*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea,

Vol. 8, Anul 17, pp. 217-224.

9. **Vicaș (Coman) Simina**, 2012, *Experimental data on microwave dried corn seeds*, International Symposium "Risk Factors for Environment and Food Safety", Universitatea din Oradea, Protectia Mediului, pp.204-209.
10. **Vicaș (Coman) Simina**, 2012, *Numerical modelling of fruits dried in microwave field*, International Symposium "Risk Factors for Environment and Food Safety", Universitatea din Oradea, Protectia Mediului, pp.33-40.
11. **Vicaș Simina**, Mintaș Ioan, 2011, *The drying process of corn seeds in the microwave field*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol.16, pp.191-197.
12. Vicaș Gabriela, **Vicaș (Coman) Simina**, 2011, *Germination percentage of corn grains processed in microwave field*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol.16, pp.191-197.
13. Lucaci Codruța, **Coman(Vicaș) Simina**, Cheregi Gabriel, Soproni Darie, Galis Ioan, Lustun Liana, Fetea Marius, Derecichei Laura, 2011, *Aspects regarding the Behaviour of Woody Material of Lime Essence in Microwave Field with Monomode Applicator*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol.17(16), pp.560-567.
14. **Coman(Vicaș) Simina**, Soproni Darie, Lucaci Codruța, Cheregi Gabriel, 2011, *Wood Drying in Microwave Field*, Analele Universitatii din Oradea, Fascicula Protectia Mediului, ISSN 1224-6255 Editura Universitatii din Oradea, Vol.17(16), pp.719-721.
15. **Coman Simina**, Soproni Darie, Lucaci Codruta, Cheregi Gabriel, 2011, *Aspects Concerning Drying Parameter Variation in Microwave Field of Woody Material*, Natural Resources and Sustainable development, pp.105 - 112.

Data,

9.01.2026

Semnătura,