

## LISTA DE LUCRĂRI

**A. Lista celor maximum 10 lucrări considerate 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:**

A.1. **Roșca C.M.**, Paraschiv N., *Comparative analysis among frequency sampling algorithm applied in microwave measurements*, 22nd International Conference on System Theory, Control and Computing (ICSTCC), October 10 - 12, 2018, Sinaia, România, ICSTCC Proceedings, pp. 816-821, DOI: 10.1109/ICSTCC.2018.8540696, Electronic ISBN: 978-1-5386-4444-7, USB ISBN: 978-1-5386-4443-0, Print on Demand(PoD) ISBN: 978-1-5386-4445-4  
<https://ieeexplore.ieee.org/document/8540696>

A.2. **Roșca, C.M.**, Paraschiv, N., *Frequency Sampling Algorithm Applied in Microwave Measurements*, 21st International Conference on System Theory, Control and Computing (ICSTCC), October 19 - 21, 2017, Sinaia, România, ICSTCC Proceedings, pp. 328-333, DOI: 10.1109/ICSTCC.2017.8107055, Electronic ISBN: 978-1-5386-3842-2, USB ISBN: 978-1-5386-3841-5, Print on Demand(PoD) ISBN: 978-1-5386-3843-9  
<https://ieeexplore.ieee.org/document/8107055>

A.3. **Roșca, C.M.**, Paraschiv, N., *Frequency sampling algorithm applied in microwave measurements based on step – size control method*, 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June-2 July, 2016, Ploiești, Romania, ECAI Proceedings, pp. 1-4, DOI: 10.1109/ECAI.2016.7861104, Electronic ISBN: 978-1-5090-2047-8, DVD ISBN: 978-1-5090-2044-7, Print on Demand(PoD) ISBN: 978-1-5090-2048-5  
<http://ieeexplore.ieee.org/document/7861104/>

### B. Teza de doctorat

Titlul: *Contribuții privind dezvoltarea unor algoritmi destinați achiziției și prelucrării parametrilor S cu aplicații în îmbunătățirea performanțelor analizoarelor vectoriale de rețea din domeniul microundelor.*

Instituția: Universitatea Petrol-Gaze din Ploiești.

Conducător de doctorat: *Prof. univ. dr. ing. Paraschiv Nicolae.*

Domeniul fundamental: Științe ingineresti

Domeniul de doctorat: Ingineria sistemelor

Perioada: 2014 – 2018 (doctor)

C. Brevete de invenție și alte titluri de proprietate industrială și intelectuală: n/a.

#### D. Cărți și capitole în cărți

D.1. Rădulescu, G., Pricop, E., Nicolae, M., **Roșca, C.**, Chapter 4 - *Using Modeling and Dynamic Simulation Technique for Systems' Safety and Security* în Pricop E., Stamatescu G. (eds) Recent Advances in Systems Safety and Security. Studies in Systems, Decision and Control, vol 62. Editura Springer, Cham, pp. 57-77, 21 pg., Print ISBN 978-3-319-32523-1, Online ISBN 978-3-319-32525-5, Switzerland, 2016,

DOI: 10.1007/978-3-319-32525-5\_4

[https://link.springer.com/chapter/10.1007%2F978-3-319-32525-5\\_4](https://link.springer.com/chapter/10.1007%2F978-3-319-32525-5_4)

D.2. **Roșca, C.M.**, Rădulescu, G., *Sisteme de operare – Lucrări practice*, Editura Universității Petrol – Gaze din Ploiești, 126 pag., ISBN 978-973-719-590-6, Ploiești, 2015

<http://editura.upg-ploiesti.ro/index.php?productID=180>

#### E. Articole / studii în extenso publicate în reviste din fluxul științific internațional principal

E.1. **Roșca, C.M.**, *Vector Network Analyzer Monitoring System Using Raspberry Pi*, Petroleum-Gas University of Ploiesti Bulletin, Vol. LXX, Technical Series no.1/2018, pp.29-38, ISSN 1224-8499, Ploiești, Romania.

<http://www.bulletin.upg-ploiesti.ro/toc.jsp?pageType=T&language=2>

E.2. **Roșca, C.M.**, *Improved Rational Interpolation Model for Microwave Measurements*, Petroleum-Gas University of Ploiesti Bulletin, Vol. LXIX, Technical Series no.4/2017, pp.79-90, ISSN 1224-8499, Ploiești, Romania.

<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=2535&language=2&pageType=T>

E.3. **Roșca, C.M.**, Voicilă E.B., *3D Algorithm for Real Time Human Body Tracking with Kinect Device*, Petroleum-Gas University of Ploiesti Bulletin, Vol. LXIX, Technical Series no.3/2017, pp.85-92, ISSN 1224-8499, Ploiești, Romania.

<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=2531&language=2&pageType=T>

E.4. **Roșca, C.M.**, Voicu, A., *Speech Recognition for Task Control of an Embedded System on Raspberry Pi*, Petroleum-Gas University of Ploiesti Bulletin, Vol. LXIX, Technical Series no.3/2017, pp.77-84 ISSN 1224-8499, Ploiești, Romania

<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=2530&language=2&pageType=T>

E.5. **Roșca, C.M.**, Voicilă, E., *Real Time Algorithm for Human Body Tracking with Kinect Device*, Petroleum-Gas University of Ploiesti Bulletin, Vol. LXVIII, Technical Series no.3/2016, pp.62-69, ISSN 1224-8499, Ploiești, Romania

<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=2434&language=2&pageType=T>

E.6. **Roșca, C.M.**, Rădulescu, G., *Basic Problems Involved by Generating Tridimensional Multimedia Content*, Petroleum-Gas University of Ploiesti Bulletin, Vol. LXVII, Technical Series no.3/2015, pp.79-84, ISSN 1224-8499, Ploiești, Romania

<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=2277&language=2&pageType=T>



## F. Publicații în extenso apărute în lucrări ale principalelor conferințe internaționale de specialitate

F.1. **Roșca C.M.**, Paraschiv N., *Comparative analysis among frequency sampling algorithm applied in microwave measurements*, 22nd International Conference on System Theory, Control and Computing (ICSTCC), October 10 - 12, 2018, Sinaia, România, ICSTCC Proceedings, pp. 816-821, DOI: 10.1109/ICSTCC.2018.8540696, Electronic ISBN: 978-1-5386-4444-7, USB ISBN: 978-1-5386-4443-0, Print on Demand(PoD) ISBN: 978-1-5386-4445-4

<https://ieeexplore.ieee.org/document/8540696>

F.2. **Roșca, C.M**, Paraschiv, N., *Frequency Sampling Algorithm Applied in Microwave Measurements*, 21st International Conference on System Theory, Control and Computing (ICSTCC), October 19 - 21, 2017, Sinaia, România, ICSTCC Proceedings, pp. 328-333, DOI: 10.1109/ICSTCC.2017.8107055, Electronic ISBN: 978-1-5386-3842-2, USB ISBN: 978-1-5386-3841-5, Print on Demand(PoD) ISBN: 978-1-5386-3843-9

<https://ieeexplore.ieee.org/document/8107055>

F.3. **Roșca, C.M**, Paraschiv, N., *Frequency sampling algorithm applied in microwave measurements based on step – size control method*, 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June-2 July, 2016, Ploiești, Romania, ECAI Proceedings, pp. 1-4, DOI: 10.1109/ECAI.2016.7861104, Electronic ISBN: 978-1-5090-2047-8, DVD ISBN: 978-1-5090-2044-7, Print on Demand(PoD) ISBN: 978-1-5090-2048-5

<http://ieeexplore.ieee.org/document/7861104/>

F.4. **Roșca, C.M**, Paraschiv, N., *Increased speed in microwave measurements based on spline interpolation model*, 13th International Conference on Development and Application Systems (DAS), 19-21 May 2016, Suceava, Romania, DAS Proceedings, pp.166-171, DOI: 10.1109/DAAS.2016.7492567, Electronic ISBN: 978-1-5090-1993-9, DVD ISBN: 978-1-5090-1992-2

<https://ieeexplore.ieee.org/document/7492567>

F.5. **Roșca, C.M**, Rădulescu, G., *Reduced time microwave filter tuning*, 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 25-27 June, 2015, Bucharest, Romania, ECAI Proceedings, pp.9-12, DOI: 10.1109/ECAI.2015.7301197, Electronic ISBN: 978-1-4673-6647-2, Print ISBN: 978-1-4673-6646-5, DVD ISBN: 978-1-4673-6645-8

<https://ieeexplore.ieee.org/document/7301197>

Candidat,

Asist. univ. dr. ing. Roșca Cosmina - Mihaela

