# Articole

## Teza de doctorat

### 2017 An algebraic approach for the resolution of algorithmic problems raised by cryptography and coding theory

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## Conferinţe Internaţionale

2020 **Employing sorting nets for designing reliable computing nets**, *Mariana Nagy, Vlad-florin Drăgoi, Valeriu Beiu*, International Conference on on Nanotechnology (IEEE-NANO), July 2020, Virtual. (ISI WOS, Scopus).

2020 **On recursively defined combinatorial classes and labelled trees**, *Ali Chouri, Vlad-florin Drăgoi, Jean-Gabriel Luque*, International Conference on on Computers Communications and Control, May 2020, Virtual. (ISI WOS, Scopus).

<https://doi.org/10.1007/978-3-030-53651-0_2>

2020 **Tight bounds on the coefficients of consecutive k-out-of-n :F systems**, *Vlad-florin Drăgoi, Simon Cowell, Valeriu Beiu*, International Conference on on Computers Communications and Control, May 2020, Virtual. (ISI WOS, Scopus).

<https://doi.org/10.1007/978-3-030-53651-0_3>

2018 **Vulnerabilities of the McEliece Variants Based on Polar Codes**, *Vlad Drăgoi, Valeriu Beiu, Dominic Bucerzan*, International Conference on Security for Information Technology and Communications (SecITC), November 8–9, 2018, Bucharest, Romania. (Scopus).

<https://link.springer.com/chapter/10.1007/978-3-030-12942-2_29>

2018 **Effective Conductances of Moore-Shannon Hammocks**, *Simon R. Cowell, Vlad Dragoi, Valeriu Beiu, Noemi Rohatinovici*, IEEE International Conference on Nanotechnology (IEEE- NANO), Cork, Ireland, JUL 23-26, 2018 (ISI WOS).

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2018 **Hammocks versus Hammock**, *Valeriu Beiu, Simon R. Cowell, Vlad Dragoi, Sorin Hoară and Păstorel Gaşpar*, IEEE International Conference on Computers Communications and Control, Baile Felix, Oradea, Romania, May 2018. (ISI WOS, Scopus).

<http://dx.doi.org/10.1109/ICCCC.2018.8390447>

2018 **Can Series and Parallel Compositions Improve on Hammocks ?**, *Vlad Dragoi, Simon R. Co- well, Valeriu Beiu, Sorin Hoară and Păstorel Gaşpar*, IEEE International Conference on Computers Communications and Control,Baile Felix, Oradea, Romania, May 2018. (ISI WOS, Scopus).

<http://dx.doi.org/10.1109/ICCCC.2018.8390448>

2018 **On Algorithms for Evaluating the Reliability of Large Hammock Networks**, *Noemi-Clara Rohatinovici, Valeriu Beiu, Simon R. Cowell, Leonard Daus, Vlad Dragoi and Valentina Emilia Balas*, IEEE International Conference on Computers Communications and Control,Baile Felix, Oradea, Romania, May 2018. (ISI WOS, Scopus).

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2017 **The Simple Roots Problem**, *Dominic Bucerzan, Vlad Dragoi and Tania Richmond*, Romanian Cryptology Days (RCD), Sept. 18-20, 2017, Bucharest, Romania. (ISI WOS, Scopus).

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2015 **Etude d’un Système de Chiffrement de Type McEliece à Base de Codes Polaires**, *Magali Bardet, Julia Chaulet, Vlad Dragoi, Ayoub Otmani, Jean-Pierre Tillich*, Journées Codage et Cryptographie, La Londe-les-Maures, Franţa.

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2020 **Solving a Modified Syndrome Decoding Problem using Integer Programming**, *Vlad-Florin Dragoi, Pierre-Louis Cayrel, Brice Colombier, Dominic Bucerzan, Sorin Hoară*, International Journal of Computers Communications & Control, vol. 15, no. 5, 2020. (ISI WOS, Scopus).

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### 2019 Cubic Spline Approximation of the reliability polynomials of two dual hammock networks,

*Gabriela Cristescu, Vlad Drăgoi*, TJMM, vol.11, no.1-2, pp. 77-90, 2019.

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2018 **How Reliable are Compositions of Series and Parallel Networks Compared with Ham- mocks ?**, *Vlad Dragoi, Simon R. Cowell, Valeriu Beiu, Sorin Hoară and Păstorel Gaşpar*, In- ternational Journal of Computers Communications & Control, vol. 13, no. 5, 2018. (ISI WOS, Scopus).

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