

## 1. ISI JOURNAL ARTICLES (ORDER IS INVERSE CHRONOLOGICAL)

- V. Drăgoi, S. R. Cowell and V. Beiu  
Four Input Sorter Good, Larger Ones Not So Good  
IEEE Transactions on Nanotechnology, vol. 20, (IF = 2.57, SJR = 0.574) 775-783  
<https://doi.org/10.1109/TNANO.2021.3113731>
- S.R. Cowell, S. Hoara, and V. Beiu  
Approximating Hammocks' Reliability with Beta Distributions  
Intl. J. Computers Communication & Control (IF ~ 2.093, SJR ~ 0.401) *Accepted*
- V. Drăgoi, S.R. Cowell, V. Beiu, S. Hoara, and P. Gaşpar  
How Reliable Are Compositions of Series and Parallel Networks  
Compared with Hammocks?  
Intl. J. Comp. Comm. & Ctrl., vol. 13, no. 5, Oct. 2018 (IF = 1.585, SJR ~ 0.368) 772-791  
<https://doi.org/10.15837/ijccc.2018.5.3354> WOS:000445916200002 \
- S.R. Cowell, V. Beiu, L. Daus, and P. Poulin  
On the Exact Reliability Enhancements of Small Hammock Networks  
IEEE Access, vol. 6, no. 1, Apr. 2018 (IF = 4.098, SJR = 0.609) 25411-25426  
<https://doi.org/10.1109/ACCESS.2018.2828036> WOS:000433619800001
- P. Poulin and S.R. Cowell  
De Branges spaces with bi-Lipschitz phase for large distances  
Miskolc Mathematical Notes, vol. 16, no. 1, 2016 517-532  
<https://doi.org/10.18514/MMN.2016.1797>
- S. R. Cowell and N. J. Kalton  
Asymptotic Unconditionality  
Oxford Quarterly J. Math. (2010) 61(2) 217-240  
<https://doi.org/10.1093/qmath/han036>
- J. Becerra Guerrero, S. R. Cowell, A. Rodriguez Palacios and G. V. Wood  
Unitary Banach Algebras  
Studia Math. 162 (2004), no. 1 25-51  
<https://doi.org/10.4064/sm162-1-3>

## 2. ISI PROCEEDINGS ARTICLES (ORDER IS INVERSE CHRONOLOGICAL)

- S.R. Cowell, S. Hoara, and V. Beiu  
Experimenting with Beta Distributions for Approximating Hammocks' Reliability  
International Conference on Computers Communications and Control ICCCC2020  
Virtual conference [Oradea, Romania], May 11-15, 2020 *Best Paper Award*  
In I. Dzitac et al. (Eds.): ICCCC 2020, SpringerNature, AISC 1243, 2021 70-81  
[https://doi.org/10.1007/978-3-030-53651-0\\_6](https://doi.org/10.1007/978-3-030-53651-0_6) WOS:Pending
- S.R. Cowell, M. Nagy, and V. Beiu  
Reliability of Two-Terminal Networks Equivalent to Small Optimal Sorting Nets

- International Conference on Computers Communications and Control ICCCC2020  
Virtual conference [Oradea, Romania], May 11-15, 2020  
In I. Dzitac et al. (Eds.): ICCCC 2020, SpringerNature, AISC 1243, 2021 45–56  
[https://doi.org/10.1007/978-3-030-53651-0\\_4](https://doi.org/10.1007/978-3-030-53651-0_4) WOS:Pending
- V. Drăgoi, S.R. Cowell, and V. Beiu  
Tight Bounds on the Coefficients of Consecutive  $k$ -out-of- $n:F$  Systems  
International Conference on Computers Communications and Control ICCCC2020  
Virtual conference [Oradea, Romania], May 11-15, 2020  
In I. Dzitac et al. (Eds.): ICCCC 2020, SpringerNature, AISC 1243, 2021 35–44  
[https://doi.org/10.1007/978-3-030-53651-0\\_3](https://doi.org/10.1007/978-3-030-53651-0_3) WOS:Pending
- V. Beiu, S.R. Cowell, and V. Drăgoi  
The Posets for Reliability: How Fine Can They Be?  
International Workshop on Soft Computing Applications SOFA'18  
Arad, Romania, September 13-15, 2018  
In V.E. Balas et al. (Eds.): SOFA 2018, SpringerNature, AISC 1221, 2021 115–129  
[https://doi.org/10.1007/978-3-030-51992-6\\_10](https://doi.org/10.1007/978-3-030-51992-6_10) WOS:Pending
- V. Drăgoi, S.R. Cowell, and V. Beiu  
Ordering Series and Parallel Compositions  
IEEE International Conference on Nanotechnology IEEE-NANO'18  
Cork, Ireland, July 23-26, 2018 8626408(1–4)  
<https://doi.org/10.1109/NANO.2018.8626408> WOS:000458785600186
- S.R. Cowell, V. Drăgoi, N.-C. Rohatinovici, and V. Beiu  
Effective Conductances of Moore-Shannon Hammocks  
IEEE International Conference on Nanotechnology IEEE-NANO'18  
Cork, Ireland, July 23-26, 2018 8626295(1–4)  
<https://doi.org/10.1109/NANO.2018.8626295> WOS:000458785600076
- N.-C. Rohatinovici, S.R. Cowell, L. Daus, P. Poulin, V. Drăgoi, V.E. Balaş, and V. Beiu  
On Algorithms for Evaluating the Reliability of Large Hammock Networks  
IEEE International Conference on Computers Communications and Control ICCCC'18  
Baile Felix/Oradea, Romania, May 08-12, 2018 131–135  
<https://doi.org/10.1109/ICCC.2018.8390449> WOS:000437157500020
- V. Drăgoi, S.R. Cowell, S. Hoara, P. Gaşpar, and V. Beiu  
Can Series and Parallel Compositions Improve on Hammocks? **Best Paper Award**  
IEEE International Conference on Computers Communications and Control ICCCC'18  
Baile Felix/Oradea, Romania, May 08-12, 2018 124–130  
<https://doi.org/10.1109/ICCC.2018.8390448> WOS:000437157500019
- V. Beiu, S.R. Cowell, V. Drăgoi, S. Hoara, and P. Gaşpar  
Hammocks versus Hammock  
IEEE International Conference on Computers Communications and Control ICCCC'18  
Baile Felix/Oradea, Romania, May 08-12, 2018 119–123  
<https://doi.org/10.1109/ICCC.2018.8390447> WOS:000437157500018
- M. Nagy, S.R. Cowell, and V. Beiu  
Are 3D Fibonacci Spirals for Real ? — From Science to Arts and Back to Science  
IEEE International Conference on Computers Communications and Control ICCCC'18  
Baile Felix/Oradea, Romania, May 08-12, 2018 91–96  
<https://doi.org/10.1109/ICCC.2018.8390443> WOS:000437157500014

- S.R. Cowell, V. Beiu, L. Dauş, and P. Poulin  
 On Cylindrical Hammock Networks  
 IEEE International Conference on Nanotechnology IEEE-NANO'17  
 Pittsburgh, USA, July 25-28, 2017 185–188  
<https://doi.org/10.1109/NANO.2017.8117498> WOS:000434647500042
- S.R. Cowell, V. Beiu, L. Dauş, and P. Poulin  
 On Hammock Networks – Sixty Years After  
 IEEE International Conference on Design & Technology of Integrated Systems in  
 Nanoscale Era DTIS'17, Palma de Mallorca, Spain, April 4-6, 2017 7929871(1–6)  
<https://doi.org/10.1109/DTIS.2017.7929871> WOS:000403402000002

### 3. PHD THESES

- Simon R. Cowell  
 Asymptotic Unconditionality in Banach Spaces  
 University of Missouri, USA, May 2009, under the supervision of Prof. Nigel J. Kalton  
<https://mospace.umsystem.edu/xmlui/bitstream/handle/10355/6149/research.pdf?sequence=3>
- Simon R. Cowell  
 Unitary Banach Algebras  
 University of Wales, Swansea, UK, May 2003, under the supervision of Dr. Geoffrey V. Wood  
<https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.636306>

### 4. BDI ARTICLES (ORDER IS INVERSE CHRONOLOGICAL)

- V. Drăgoi, S.R. Cowell, M. Nagy, and V. Beiu  
 A Preliminary Investigation of Matchstick Minimal Networks  
 Theory and Applications of Mathematics & Computer Science *Accepted*
- S.R. Cowell, M. Nagy, and V. Beiu  
 A Proof of a Generic Fibonacci Identity from Wolfram's MathWorld  
 Theory and Applications of Mathematics & Computer Science, vol. 8, no. 1, Apr. 2018 60–63  
<http://www.uav.ro/applications/se/journal/index.php/TAMCS/article/view/175>
- S. R. Cowell  
 A formula for the reliability of a d-dimensional consecutive-k-out-of-n:F system,  
 International Journal of Combinatorics, 2015 5 pages  
<http://dx.doi.org/10.1155/2015/140909>,
- S. R. Cowell and P. Poulin  
 Complete Interpolation vs Riesz Bases of Reproducing Kernels, Acta  
 Mathematica Academiae Paedagogicae Nyiregyhaziensis 30, 2014 103–109  
[https://www.emis.de/journals/AMAPN/vol30/30\\_09.pdf](https://www.emis.de/journals/AMAPN/vol30/30_09.pdf)

#### Remark: The following 5 reports are available on arXiv

- V. Drăgoi, S.R. Cowell, and V. Beiu  
 Tight Bounds on the Coefficients of Consecutive  $k$ -out-of- $n$  :F Systems  
 Tech. Rep. arXiv, Discrete Mathematics (cs.DM), 27 Mar. 2020 1–10

<https://arxiv.org/abs/2003.12419>

- M. Nagy, S.R. Cowell, and V. Beiu  
Survey of Cubic Fibonacci Identities – When Cuboids Carry Weights  
Tech. Rep. arXiv, History and Overview (math.CO), 15 Feb. 2019 1–14  
<https://arxiv.org/abs/1902.05944>
- L. Daus, V. Beiu, S.R. Cowell, and P. Poulin  
Brick-Wall Lattice Paths and Applications  
Tech. Rep. arXiv, Combinatorics (math.CO), 14 Apr. 2018 1–16  
<https://arxiv.org/abs/1804.05277>
- S. R. Cowell  
On the Computation of the Shannon Capacity of a Discrete Channel with Noise  
Tech. Rep. arXiv, Information Theory (cs.IT), 31 Jan. 2017 1–15  
<https://arXiv:1701.08731v2>
- S. R. Cowell and P. Poulin  
Early Transcendental Analysis  
Tech. Rep. arXiv, History and Overview (math.HO), 10 Jun. 2015 1–11  
<https://arXiv:1506.03697v1>

## 5. BDI CONFERENCE ARTICLES (ORDER IS INVERSE CHRONOLOGICAL)

- V. Drăgoi, S.R. Cowell, M. Nagy, and V. Beiu  
Matchstick Minimal Circuits  
International Symposium Research and Education in an Innovation Era ISREIE'18  
Section Mathematics & Computer Science (ISSN 2065-2569)  
Arad, Romania, May 17-20, 2018 112–121  
<https://uav.ro/en/conferences/isreie-2018>

**Remark: The following papers have been presented at “other conferences”**

- M. Nagy, S. R. Cowell, and V. Beiu  
Optimal Cubic Fibonacci Identities for 3D Packing  
International Symposium Research and Education in Innovation Era ISREIE'19  
Arad, Romania, May 23-25, 2019
- M. Tache, S. R. Cowell, and V. Beiu  
Turning Sizing on Its Head and More  
International Symposium Research and Education in Innovation Era ISREIE'19  
Arad, Romania, May 23-25, 2019

## 6. BDI TECHNICAL REPORTS

- S. R. Cowell  
The number of  $n$  by  $n$  binary matrices having a contiguous 2 by 2 submatrix whose every element is 1  
A255936, OEIS Foundation Inc., The On-Line Encyclopedia of Integer Sequences, Mar. 2015  
<https://oeis.org/A255936>