

Scientific Works

Ilie Valusescu

1 Papers:

1.1 Journals and Proceedings

1. I.Suciu, I.Valusescu, *On the hyperbolic metric on Harnack parts*, Studia Mathematica, Tom **55** (1976), 97-109.
[MR 0633377, Zbl 0328.46074].
2. I.Suciu, I.Valusescu, *Factorization of semispectral measures*, Rev. Roumaine Math. Pures et Appl. **21** Nr.6 (1976), 773-793.
[MR 0423500, Zbl 0341.47014].
3. I.Suciu, I.Valusescu, *On the hyperbolic metric on Harnack parts (corr.)*, Studia Mathematica **58** (1976), 99-100.
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4. I.Suciu, I.Valusescu, *Essential parameters in prediction*, Rev. Roumaine Math. Pures et Appl. **22**, Nr.10 (1977), 1477-1495.
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[MR 0522596, Zbl 0466.60043].
6. I.Suciu, I.Valusescu, *A linear filtering problem in complete correlated actions*, Journal of Multivariate Analysis, **9**, Nr.4 (1979), 599-613.
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7. I.Suciu, I.Valusescu, *Fatou and Szegő theorems for operator valued functions*, Proc. of Romanian-Finnish Seminar on Complex Analysis, Bucharest,

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 9. I.Valusescu, *On the maximal outer function of a semispectral measure*, Proc. Coll. on Complex Analysis, Joensuu, Finland 1978. (Eds: Ilpo Laine, Olli Lehto, Tuomas Sorvali), ISBN 3-540-09553-5, Springer Verlag, Lectures Notes Math. **747** (1979), 409-416.
 [MR 0553070, Zbl 0424.47004].
 10. I.Valusescu, *The maximal function of a contraction*, Acta Scientiarum Math., **42** (1980), 183-188.
 [MR 0576953, Zbl 0437.47005].
 11. I.Suciu, I.Valusescu, *Linear predictor for stationary processes in complete correlated actions*, Spectral Theory, Banach Center Publ. **8** (1981), 435-447.
 [MR 0738308, Zbl 0504.60042].
 12. I.Valusescu, *Metode operatoriale in teoria predicției I.*, St. Cerc. Mat. **33**, Nr.3 (1981), 343-401.
 [MR 0632220, Zbl 0472.60042].
 13. I.Valusescu, *Metode operatoriale in teoria predicției II.*, St. Cerc. Mat. **33**, Nr.4 (1981), 467-492.
 [MR 0632005, Zbl 0479.60048].
 14. N.Suciu, I.Valusescu, *The maximal function of doubly commuting contractions*, Proc. of the 5-th International Conference on Operator Theory, (Eds: C.Apostol, R.G.Douglas, B.Sz.-Nagy, D.Voiculescu and Gr.Arsene). "Topics in Modern Operator Theory", Operator Theory Adv. and Appl. **2** (1982), 295-309, ISBN3-7643-1244-0, Birkhäuser Verlag.
 [MR 0672830, Zbl 048347013].

15. I.Valusescu, *On stationary processes in complete correlated actions*, Proc. Complex Analysis – 5-th Romanian-Finnish Seminar, (Eds: C.A.Cazacu, N.Boboc, M.Jurchescu and I.Suciu). ISBN 0-387-12683-X, Lecture Notes in Math. **1014** (1983), 316-334.
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19. D.Gaspar, N.Suciu, I.Valusescu, *Factorization and the Szegő theorem for semispectral measures on \mathbb{T}^2* . The 12-th Conf. on Operator Theory, 1988, 37-42.
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26. I.Suciu, I.Valusescu, *On discrete time infinite-variate prediction*, Proc. of Mathematical Theory of Networks and Systems, MTNS-98, [Eds: A. Beghi, L. Finesso, G. Picci], ISBN 88-4115-117-8, Padova, Italy, 1998, 883-887.
27. I.Valusescu, *Periodic stationary processes in complete correlated actions*, Proc. Conf. Functional Anal. and Appl. Nemecka, Slovakia, 1999, 72-74.
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29. I.Valusescu, *On nonstationary periodically correlated processes in complete correlated actions*, Acta Univ. Apulensis, **15** (2008), 353-372. [MR 2409358, Zbl 05696814].
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36. Ilie Valusescu, *On the Friedrichs angle between the past and the future of some Γ -correlated processes*, Proceedings of the International Conference on Theory and Applications of Mathematics and Informatics, ICTAMI-2011, Alba Iulia, 21-24 iulie 2011, editors: Daniel Breaz, Nicoleta Breaz, Nicoleta Ularu. Acta Universitatis Apulensis, Special Issue, 2011, pag. 85-94.
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40. I. Valusescu, *Some remarks on the infinite-variate prediction II*. Proceedings of the conference Classical and Functional Analysis, Busteni, 2014. Transilvania University Press, Braov, 2015, 33-52.
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42. I.Valusescu, *Continuous parameter Γ -stationary processes*. Proceedings of the conference Classical and Functional Analysis, Busteni, iulie 2015. Transilvania University Press, Braov, 2015, 79-99.
43. I.Valusescu, P.Gaspar, *Bergman bounded analytic functions* (in preparation).

1.2 Preprints and Reports (Selections)

44. I.Valusescu, *Discuri analitice în algebre Banach comutative*, Dissertation, Universitatea din Timișoara, 1970.
45. I.Suciu, I.Valusescu, *Dilatarea unitara simultana a unui sistem comutativ de contractii si inegalitatea lui von Neumann*, Preprint IMAR, 1973.
46. I.Suciu, N.Suciu, I.Valusescu, *On the Harnack parts of completely positive maps*, SLOHA Nr.3, Timișoara (1979), 1-28.
47. I.Valusescu, *Metode Operatoriale în Teoria Predicției*, Teza de doctorat, ICEMAT București, 1979.
48. I.Valusescu, *Procese armonizabile in actiuni corelate complete*, Contract INCREST, 12 p, 1984.
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50. D.Gaspar, N.Suciu, I.Valusescu, *Functii de tip Wold si structuri analitice asociate reprezentarilor izometrice 2-generate*, SLOHA (1986)

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55. I.Valusescu, *On quarter plane prediction*, IWOTA-96, Bloomington, Indiana Univ., 1996.
56. I.Valusescu, *An operatorial view on infinite-variate prediction*, MTNS-1996, St.Louis, USA, 1996.
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69. I.Valusescu, *An update on the maximal function*, Inst. Math. "Simion Stoilow", Preprint Nr. 8 / 2009, 27 p.
70. I.Valusescu, *A new update on the maximal function*, The 23-th Conf. on Operator Theory, Timișoara, 2010, p.32-33.
71. I.Valusescu, *Γ -correlated processes. Some geometrical considerations*, Preprint IMAR 7/2011, pag. 12.
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74. I.Valusescu, *On the maximal function of a contraction operator*. International Workshop on Operator Theory and Applications IWOTA-2014, Amsterdam, 14-18 July 2014.
75. I.Valusescu, *On the maximal function model of a contraction operator*. The Eight Congress of Romanian Mathematicians, June 26 - July 1, Iasi Romania, 2015.

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2 Books:

1. *Stationary processes in complete correlated actions*, Monografii Matematice Vol. 80, Universitatea de Vest, Timișoara, 2007. ISSN 1453-7702.
2. *Stochastic processes in correlated actions*, Monografii Matematice Vol. 83, Universitatea de Vest, Timișoara, 2008. ISSN 1453-7702.
3. Book Chapter: *On stationary processes in complete correlated actions*, Lecture Notes in Math. **1014** (1983), ISBN 0-387-12683-X, DOI: 10.1007/BFb0072090. (<http://www.springerlink.com/>)
4. *Operatorial prediction theory*. (In preparation).

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