

## CURRICULUM VITÆ

### 1. Personal Information

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### 2. Academic History

1981 Moscow Pedagogical University  
1987 Institute for Information Transmission Problems, Russian Academy of Sciences  
PhD in Information Theory  
1997 Institute for Information Transmission Problems, Russian Academy of Sciences  
Doctor of Sciences in Mathematics

### 3. Employment Record

Acting Chief Scientific Researcher at the Institute of Information Transmission Problems, Russian Academy of Sciences, working since 1982  
Visiting Professor, Visiting Researcher: University of Bielefeld, Germany 2002-2006, 2011-2012 ; University of Sao Paulo, Brazil, 2012-2016, University Federal of Sao Paulo, Brazil, 2019 -  
Short time visitor in a number of Universities in the World. Attend a number of Conferences in the World.  
Co-Chair of International Symposium on Information Theory in St. Petersburg in 2011- <http://isit2011.org>

### 4. <http://www.dmlett.com/editorial-team/>

Member of the Editorial Board of Discrete Mathematical Letters

### 5. Publications

1. V. Blinovskiy, *Solution of Hypergraph Turan Problem*, <http://arxiv.org/pdf/1603.00766v2.pdf>
2. V. Blinovskiy, *Proof of Union-Closed sets conjecture*, <http://arxiv.org/pdf/1507.01270v5.pdf>, submitted
3. V. Blinovskiy, *Tight Logarithmic Asymptotic for the Probability of  $n \times n$  Random Matrix with Uniform Distributed 1 Entries to be Singular*, submitted  
<http://arxiv.org/pdf/1511.05283v1.pdf>
4. V. Blinovskiy, *The solution of the complete nontrivial cycle intersection problem for permutations*, <http://arxiv.org/pdf/1303.0053.pdf>, submitted
5. V. Blinovskiy, *Proof of two conjectures on correlation inequalities for one class of monotone functions*, Problems of Information Transmission, **50**, (2014), no. 3, pp. 280-284, <http://arxiv.org/pdf/1306.0862.pdf>
6. V. Blinovskiy and C. Greenhill, *Asymptotic enumeration of sparse uniform linear hypergraphs with given degrees*, The Electronic Journal of Combinatorics, **23**, 3, (2016), paper #P3.17
7. V. Blinovskiy and C. Greenhill, *Asymptotic enumeration of sparse uniform hypergraphs with given degrees*, European Journal of Combinatorics, **51**, (2016), pp. 287-296, <http://arxiv.org/pdf/1306.2012.pdf>
8. V. Blinovskiy, *Complete intersection theorem and complete nontrivial- intersection theorem for systems of set partitions*, <http://arxiv.org/pdf/1308.0324.pdf>, submitted
9. V. Blinovskiy, *Minimal number of edges in hypergraph guaranteeing perfect fractional matching and MMS conjecture*, Problems of Information Transmission, **50**, (2014), no. 4, pp. 340-349, <http://arxiv.org/pdf/1310.0989.pdf>
10. V. Blinovskiy, *Fractional matching in hypergraphs*, Problems of Information Transmission, **51**, (2015), no. 1, pp.25-30, <http://arxiv.org/pdf/1311.2671.pdf>
11. V. Blinovskiy, *Erdős's matching conjecture and  $s$ -wise  $t$ -intersection conjecture via symmetrical smoothing method*, <http://arxiv.org/pdf/1402.1505.pdf>, accepted

12. V. Blinovskiy and M.-L. Cai, *Quantum arbitrarily varying wiretap channel*, Collection of papers dedicated to R. Ahlswede, LNCS, Springer, Heidelberg, 7777, (2013).
13. V. Blinovskiy, *Proof of an inequality from identification theory*, Problemy Peredachi Informatsii, **48**, (2012), no. 2, 110-112
14. V. M. Blinovskiy, *Remark on one problem in extremal combinatorics*, Problemy Peredachi Informatsii **48** (2012), no. 1, 70-71.
15. V. Blinovskiy and S. Litsyn, *New asymptotic bounds on the size of multiple packings of the Euclidean sphere*, Discrete Comput. Geom. **46** (2011), no. 4, 626-635.
16. V. M. Blinovskiy, *A remark on the reliability function of a symmetric channel under list decoding*, Problemy Peredachi Informatsii **47** (2011), no. 2, 3-6.
17. ———, *An intersection theorem for finite permutations*, Problemy Peredachi Informatsii **47** (2011), no. 1, 40-53.
18. ———, *BSC reliability function under list decoding*, Problemy Peredachi Informatsii **46** (2010), no. 4, 3-13.
19. V. Blinovskiy, U. Erez, and S. Litsyn, *Weight distribution moments of random linear/coset codes*, Des. Codes Cryptogr. **57** (2010), no. 2, 127-138.
20. V. M. Blinovskiy, *A proof of a correlation inequality*, Problemy Peredachi Informatsii **45** (2009), no. 3, 79-84.
21. ———, *A generalization of Plotkin's bound to the case of multiple packings*, Problemy Peredachi Informatsii **45** (2009), no. 1, 3-7.
22. R. Ahlswede and V. Blinovskiy, *Lectures on advances in combinatorics*, Universitext, Springer-Verlag, Berlin, 2008.
23. V. M. Blinovskiy, *On the convexity of a function in coding theory*, Problemy Peredachi Informatsii **44** (2008), no. 1, 38-44.
24. R. Ahlswede and V. Blinovskiy, *Multiple packing in sum-type metric spaces*, Discrete Appl. Math. **156** (2008), no. 9, 1469-1477.
25. ———, *Classical capacity of classical-quantum arbitrarily varying channels*, IEEE Trans. Inform. Theory **53** (2007), no. 2, 526-533.
26. R. Ahlswede, L. Bäumer, N. Cai, H. Aydinian, V. Blinovskiy, C. Deppe, and H. Mashurian (eds.), *General theory of information transfer and combinatorics*, Lecture Notes in Computer Science, vol. 4123, Springer, Berlin, 2006, Available electronically at <http://www.springerlink.com/content/p62111115215/>.
27. R. Ahlswede and V. Blinovskiy, *Correlation inequalities in function spaces*, General theory of information transfer and combinatorics, Lecture Notes in Comput. Sci., vol. 4123, Springer, Berlin, 2006, pp. 572-577.
28. R. Ahlswede and V. Blinovskiy, *Maximal sets of numbers not containing  $k + 1$  pairwise coprimes and having divisors from a specified set of primes*, J. Combin. Theory Ser. A **113** (2006), no. 8, 1621-1628.
29. R. Alsvede and V. M. Blinovskiy, *On the number of step functions with restrictions*, Teor. Veroyatn. Primen. **50** (2005), no. 4, 625-651.
30. R. Ahlswede, H. Aydinian, L. Bäumer, V. Blinovskiy, N. Cai, C. Deppe, and H. Mashurian (eds.), *General theory of information transfer and combinatorics*, Electronic Notes in Discrete Mathematics, vol. 21, Elsevier Science B.V., Amsterdam, 2005.
31. V. M. Blinovskiy, *Random sphere packing*, Problemy Peredachi Informatsii **41** (2005), no. 4, 23-35.
32. ———, *Code bounds for multiple packings over a nonbinary finite alphabet*, Problemy Peredachi Informatsii **41** (2005), no. 1, 28-38.
33. A. M. Barg, L. A. Bassalygo, V. M. Blinovskiy, and et al., *In memory of Mark Semenovitch Pinsker*, Problemy Peredachi Informatsii **40** (2004), no. 1, 3-5.
34. R. Alsvede and V. M. Blinovskiy, *Large deviations in quantum information theory*, Problemy Peredachi Informatsii **39** (2003), no. 4, 63-70.
35. V. M. Blinovskiy and L. K. Kharper, *The size of the maximal antichain in a partially ordered set of partitions*, Problemy Peredachi Informatsii **38** (2002), no. 4, 113-120.
36. V. M. Blinovskiy, *A new approach to estimating decoding error probability*, Problemy Peredachi Informatsii **38** (2002), no. 1, 19-23.
37. ———, *A random Young diagram, the variational method, and related problems*, Problemy Peredachi Informatsii **38** (2002), no. 2, 33-43.

38. ———, *The error probability exponent of list decoding at low rates*, Problemy Peredachi Informatsii **37** (2001), no. 4, 3–14.
39. ———, *A uniform estimate for the spectrum of a linear code*, Problemy Peredachi Informatsii **37** (2001), no. 3, 3–5.
40. ———, *The large-deviation principle for Poisson random variables and a Young diagram*, Problemy Peredachi Informatsii **37** (2001), no. 1, 72–77.
41. ———, *Large deviations for the boundary of a random Young diagram with the Bell distribution*, Problemy Peredachi Informatsii **36** (2000), no. 4, 128–133.
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43. V. Blinovskiy, *Large deviations problem for the shape of a random Young diagram with restrictions*, Numbers, information and complexity (Bielefeld, 1998), Kluwer Acad. Publ., Boston, MA, 2000, pp. 473–488.
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58. ———, *A lower bound on the number of words of a linear code in an arbitrary sphere with given radius in  $F_q^n$* , Problemy Peredachi Informatsii **23** (1987), no. 2, 50–53.
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