

## ALEXANDER M. KARMINSKY

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### Specialization

- Banking.
- Rating methodology and econometrics of default.
- Information & Analytical Support of business.
- Controlling.
- Computer modeling.
- Macroeconomic environment of business.
- Informatization of business.

### Education & Degrees

Moscow State University	MS in Mathematics	<i>cum laude</i>	1971
Central Scientific Research Institute of chemistry & mechanics	Ph.D. in Technical science		1978
Central Scientific Research Institute of chemistry & mechanics	Doctor in Technical science		1991
Moscow State Bauman Technical University	Professor in Economic science		2000
Moscow State Bauman Technical University	Doctor in Economic science		2008

### Academic Employment

Moscow State Bauman Technical University	Lecturer. Computer-aided design and simulation	1982-1991
Moscow Institute of Economics & law	Professor. Information science. Mathematics.	1995-1997
Moscow State Bauman Technical University	Professor. Controlling. Informatization of business Leader of post-graduate: 5 Ph. D. Thesis in Economics and Mathematics	1998 - present
Higher School of Economics, State University, Moscow, Russia	Professor. Informatization of banking. Ratings. Banking Leader of 3 post-graduates	2001 - present
New Economic School, Moscow, Russia	Professor. Trend of the Banking Sector in Russia and Bank Ratings	2001 - present
International Center of Banking and Financial Technologies.	Chief executive.	1999-2001
Journal "Controlling"	Member of the Editorship	2001 - present

### Courses taught

- Banking
- External & internal ratings
- Payment systems
- Informatization in business.
- Controlling
- Computer-aided design and simulation of cybernetic systems.

### Non-Academic Employment

Joint-stock bank of gas industry GAZPROMBANK, Moscow, Russia	Head of Division. Informational & analytical support. Rating officer. Designing of depositary system. Leader of project.	1993 - 2008
Biblio-Globus, Book trading house, Moscow, Russia	Designing of computer-based system.	1991-1993

### Other activity

Organization of International conference “Banking and Financial Technology for Real Economy”, Moscow, 2000.

Member of the Scientific expert counsel of the Russian banks association from 1998 till 2002.

Leader of scientific seminar “Banks and enterprises. Models & ratings” in New Economic School, 2002-present.

Leader of scientific seminar “ Empirical research in banking” in Higher School of Economics 2010-present

Member of organizing committee of some conferences and symposiums.

### Published papers (*selected; general number more than 150*):

1. “About equivariant bordisms”, *Matematicheskie Zametki*, 1971, n.10 (in Russian. Translated in: *Mathematical Notes*).
2. “To the theory of generalized quality indicators for radio-systems design”, *Radiotekhnika*, 1975, n. 10 (in Russian. Translated in: *Radiotechnics*).
3. “Radio systems generalized quality indicators with using non-formalized representations”, *Radiotekhnika*, 1985, n. 6 (in Russian. Translated in: *Radiotechnics*).
4. “Parallel optimization methods and algorithms“, *Radiotekhnika*, 1987, n. 4 (in Russian. Translated in: *Radiotechnics*).
5. “Computer-aided support of the contract’s system of labor organization”, *Man and labor*, 1994, n. 11 (in Russian).
6. “To program systems interface” (with Karminsky S.). *Hard’n’Soft*, 1995, n.2 (in Russian).
7. “Controlling at the bank” (with N. Olenev, A. Primak, S. Falko). In “*Banking and financial technology for the real economy*”, Moscow, ICBFT, 2000 (in Russian).
8. “Informational and analytical technologies in banking” (with Shakhnazariants G.). In “*Banking and financial technology for the real economy*”, Moscow, ICBFT, 2000 (in Russian).
9. “Key features of rating assessments of financial institutions of the real economy” (with Olenev N., Astrelina V.). In “*Banking and financial technology for the real economy*”, Moscow, ICBFT, 2000 (in Russian).
10. “System for monitoring and analysis of portfolio investments” (with Astrelina V., Pomazkin D.). In “*Banking and financial technology for the real economy*”, Moscow, ICBFT, 2000 (in Russian).
11. Differentiation of prudential norms and rating estimations for financial institutions of the real economy” (with Olenev N., Astrelina V.). *Rinok tsennich bumag (Securities Market)*, 1999, n. 20 (in Russian).
12. “Image data presentation” (with Pomazkin D.). *Rinok tsennich bumag (Securities Market)*, 2000, n. 4 (in Russian).

13. Unified informational and analytical banking system conception. The situation and perspectives (with Tarasov V. And etc.). *Proceedings of the International congress "New technologies for gas and oil industries"*, Kazan, 1998 (in Russian).
14. "Dynamical financial stability rating for Russian banks" (with Petrov A.). *Analiticheskiy bankovskiy zurnal (Analytical banking magazine)*, 2000, n. 20 (in Russian).
15. "Information system for commercial bank's consolidated accounting reporting" (with Zevaga A., Chernishov I.). *Banking Technologies*, 2000, n. 11 (in Russian).
16. "The distance learning system for financial managers" (with Bustra T., Solodkov V.). In *"Baking and financial technologies for the real economy"*, Moscow, ICBFT, 2001 (in Russian).
17. "Bank's dynamical financial stability ratings principles (with Petrov A.). In *"Baking and financial technologies for the real economy"*, Moscow, ICBFT, 2001 (in Russian).
18. "General principals of controlling informatization" (with Zevaga A., Ryakhovskaya O.). *Rosiyskoe predprinimatelstvo (Russian business undertakings)*, 2001, n. 3 (in Russian).
19. "Controlling informatization for shell companies" (with Dementiev A., Zevaga A.). *Controlling*, 2002, n. 3 (in Russian).
20. "Practices of controlling informatization" (with Zevaga A.). *Controlling*, 2002, n. 4 (in Russian).
27. "Informational & analytical support of the decision making in banking activities" (with Shumakov P.). *Controlling*, 2004, n. 2 (in Russian).
21. "Dynamic Financial Stability Ratings for the banks and enterprises" (with Petrov A.). *Controlling*, 2004, n. 3 (in Russian).
22. Analysis of Russian Banks Ratings (with Golovko E., Sidorov V., Peresetsky A., van Soest A.). *NES Working paper #2002/033E*, Moscow 2002.
23. Russian Banks Rating Models (with Peresetsky A., Petrov A.). *Banks and Finance*. 6(41) 2002. (in Russian)
24. Russian Banks Rating Models (with Peresetsky A., Petrov A.). *Banks and Insurance companies. Bulletin of Financial Information*. 1(92) January 2003 (in Russian).
25. An analysis of ratings of Russian banks (with Soest, A.H.O. van; Peresetsky A.) Tilburg University CentER Discussion Paper Series, 2003 nr.85 (<http://greywww.kub.nl:2080/greyfiles/center/2003/85.html>)
26. Probability of Default models of Russian banks I. Models with clustering (with Golovan S., Peresetsky A., Kopylov A.). *NES Working paper # 2003/039* (in Russian).
27. Probability of Default models of Russian banks II. Models and Macroeconomic Environment (with Golovan S., Peresetsky A., Evdokimov M.) *NES Working paper # 2004/043* (in Russian).
28. Modelling the Probability of default and ratings of Russian banks (with Peresetsky A., van Soest A.), (2004), pp. 500-522 in *"Modernization of Russian Economy. Social Context"*, v.1. editor E.G.Yasin. HSE, Moscow, 2004 (in Russian).
29. Modelling Russian banks ratings (with Peresetsky A., van Soest A.), (2004) *Economics and Mathematical Methods* 40(4) pp.10-25 (in Russian).
30. Modelling the Probability of default of Russian banks including macroparametr (with Golovan S., Peresetsky A.), (2005) *Upravlenie finansovimi riskami (Financial risk management)*, 3 (in Russian).
31. Ratings in Economic as financial risk management (with Astrelina V.), (2006) *Upravlenie finansovimi riskami (Financial risk management)*, 2 (in Russian).
32. Bank rating models for risk management. (with Peresetsky A.), (2006) *Upravlenie finansovimi riskami (Financial risk management)*, 1 (in Russian).
33. Structure and unification of multi-aims accounting system at the bank for management decision support (with Shumakov P.). *Controlling*, 2006, n. 2 (in Russian).
34. Russian bank's retail business. Analysis of individuals deposit interest rates heterogeneity. (with Golovan S., Peresetsky A.), (2006). in *"Modernization of Economy and State"* editor E.G.Yasin. HSE, Moscow, 2006 (in Russian).
35. Russian bank efficiency indicators. (with Golovan S., Peresetsky A.), (2006). in *"Modernization of Economy and State"* editor E.G.Yasin. HSE, Moscow, 2006 (in Russian).
36. Russian banks market discipline. (with Peresetsky A.), (2006). Banking retail. (in Russian).

37. Russian Banks market discipline and deposit insurance. (with Golovan S., Peresetsky A.), (2006). 9th International Vilnius Conference on Probability Theory and Mathematical Statistics, Abstracts of Communications.
38. International agencies rating modeling. (with Peresetsky A.), (2007). *Prikladnaya econometrika (Applied econometrics)*, 1 (in Russian).
39. Rating modeling as risk management factor. (with Golovan S., Peresetsky A.), (2007). in “*Modernization of Economy and society development*” editor E.G.Yasin. HSE, Moscow, (in Russian).
40. Moody’s bank rating models. (with Peresetsky A., Malakhova I., Minenkova E.), (2007). *Upravlenie finansovimi riskami (Financial risk management)*, 2 (in Russian).
41. *Bank rating models for risk management (with Peresetsky A., Rizov A.), (2007). Upravlenie finansovimi riskami (Financial risk management)*, 4 (in Russian).
42. Russian bank efficiency. (with Golovan S., Peresetsky A.), (2008). *Economics and Mathematical Methods* 44(4) (in Russian).
43. Ratings as strategical controlling instrument. (2008). *Economical strategies*, 1. (in Russian).
44. Methodology and instruments of environment controlling. (2008). *Controlling*, 2. (in Russian).
45. Informational and Analytical support of business. (2008). *Controlling in business*, Kiev. (in Russian).
46. Methodological questions of the kit for dynamical rating design. (2008). *Engineering bulletin*, 3 (in Russian).
47. Models for Moody’s bank ratings (with Peresetsky A.). (2008). *BOFIT Discussion Papers / Bank of Finland*, №17.
48. Enterprise rating models (2009). *Upravlenie finansovimi riskami (Financial risk management)*, 3 (in Russian).
49. Rating model opportunities for emerging markets. (2009). *Challenges for analysis of the economy, the businesses, and social progress. Abstract Book, Szeged (Hungary), November, 2009*
50. Ratings asb financial risk measure: evolution, purpose, using. (with Peresetsky A.), (2009). *New economic society magazine*, 1-2. (with translation in English).
51. Rating models for non-financial companies. (2010). *Vanguard Scientific instruments in management’ 2009. Ravda, Bulgaria*, 2.
52. Rating model opportunities for emerging markets. (2010). *Challenges for analysis of the economy, the businesses, and social progress. Congress papers*.
53. Rating models: emerging market differentiators. (2010). *EBES 2010 Congress. Abstracts, Istanbul*

**Books (selected; general number more than 20):**

1. A. Karminsky, I. Kogan. *Computer-aided design and computer modeling of complex radio engineering systems*. Moscow, All-Union Institute of the Science and Technical Information, 1987.
2. A. Karminsky, S. Karminsky. *Personal and labor contracts. Information system*. “Moscow State University” Publishing House, Moscow, 1993.
3. A. Karminsky. *Informatization of controlling*. Moscow State Bauman Technical University Publishing House, 2000.
4. A. Karminsky, S Falko. *Estimation of Innovation results and management of innovation processes economical effectiveness*. Moscow State Bauman Technical University Publishing House, 2000.
5. A. Karminsky, P. Nesterov. *Business Informatization*. Moscow, “Financi i statistika” Publishing House (Finance and Statistics Publishing House), 1997.
6. A Karminsky, N. Olenov, A. Primak, S. Falko. *Controlling in Business*. Moscow, “Financi i statistika” Publishing House (Finance and Statistics Publishing House), 1998.
7. A. Karminsky, N. Olenov, A. Primak, S. Falko. *Controlling in Business: methodology and practical bases for controlling in organizations*. 2<sup>nd</sup> edition. Moscow, “Financi i statistika” Publishing House (Finance and Statistics Publishing House), 2002.
8. A. Karminsky, S. Karminsky, V. Nesterov, B. Chernikov. *Business Informatization: concepts, technologies, systems*. 2<sup>nd</sup> edition. Edited by A. Karminsky. Moscow, “Financi i statistika” Publishing House (Finance and Statistics Publishing House), 2004.
9. A. Karminsky, A. Peresetsky, A. Petrov. *Ratings in Economics: Methodology and Practice*. Moscow, Finansi i Statistika (Finance and Statistics Publishing House), 2005.

10. Controlling. Ed. By A. Karminsky and S. Falko. Moscow, "Financi i statistika" Publishing House (Finance and Statistics Publishing House), 2006 (2-nd ed. – 2009).
11. A. Karminsky, B. Chernikov. Information technologies in economic. In 2 parts. Moscow, Finansi i Statistika (Finance and Statistics Publishing House), 2006.
12. A. Karminsky. Informational and analytical support of business. Moscow, Finansi i Statistika (Finance and Statistics Publishing House), 2007.

**Presentation at professional conferences:** (*selected; general number about 50*)

*Symposium "Complex system's quality performance estimation and system analysis", "Value informational analysis in complex systems design". Minsk, USSR, 1974.*

*All-Union radio-electronic conference, "Value-informational perspectives in systems design", Moscow, 1975.*

*All-Union scientific conference "Information methods communication and radio-electronic systems efficiency and quality advancement", "Formalization of non-formalized representations for design decision making", Yerevan, USSR, 1981.*

*All-Union scientific conference "Using of Information theory methods for efficiency and quality advancement of complex radio-electronical systems", "Informational surplus dialog optimization", Taganrog, USSR, 1984.*

*VIII International congress CITOGIC'98 "New technologies for gas and oil industries and communications",*

*"Unified informational and analytical banking systems conception", Kazan, Russia, 1998.*

*IX International congress CITOGIC'99 "New technologies for gas and oil industries and communications", "The System for portfolio investments control and analysis", Ufa, Russia, 1998.*

*X International conference on computing mathematics and modern applied program systems", "The model of design, adapting and storing tools for hierarchic analytical systems", Pereyaslavl-Zalesskiy, Russia, 1999.*

*International conference "Baking and Financial Technologies for the real economy", "The Distance e-learning systems for financial managers" (with Bustra T., Solodkov V.)", Moscow, 2000.*

*Conference "Open society and steady development", "Economical Efficiency Estimation Principals for enterprises' informational management systems" (with Zevaga A.), Moscow, 2002.*

*- 4th International scientific conference "Modernization of Russian Economy: Social Context", "Modeling the Probability of Default and Ratings of Russian Banks" (with A. Peresetsky, and A. van Soest). Moscow, April, 2003.*

*- 5th International scientific conference "Competitiveness and Modernization of Economy", Russian banks probability of default models (with A. Peresetsky, and S. Golovan). Moscow, April, 2004.*

**Referee for professional journals:**

- Controlling. Moscow, Russia.
- Banking Technologies. Moscow, Russia.

**Research projects:**

- Trend of the banking sector in Russia and bank ratings, NES Research Center, 2001–2002.
- Trend of the banking sector in Russia and bank ratings II, NES Research Center, 2002–2003.
- Trend of the banking sector in Russia and bank ratings III, NES Research Center, 2003–2004.
- Trend of the banking sector in Russia and bank ratings IV, NES Research Center, 2004–2005.

**Applied projects:**

- Computer-aided system for decision makes support in complex cybernetic system's construction (five versions during 1981-1991).
- Automated control system for book's trading. Book's trading house "Biblio-Globus", Moscow, 1991-1993.

Automated system for personnel administration. Paritet software company, Moscow State University, 1993-1995.

Gazprombank's multiregional depository system (more than million clients). Gazprombank, 1994-1996.

Gazprombank's informational internet portal. Gazprombank, 2000-2002.

Informational & analytical support system. Gazprombank, 1997-2003.

Annual reporting system. Gazprombank, 1997-2003. (Best reports between Russian financial institutions by Expert magazine in 2002, 2003).

**Professional affiliations:**

- member of Russian Academy of natural science
- member of Russian Federation Academy of technological science
- member of presidium of Russian controlling association