

# Victor Petrovich Romanov



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## CURRICULUM VITAE

### *EDUCATION*

Engineer qualification (with Distinction) from Kazan National Research Technical University named after A.N. Tupolev).

Ph.D. in Computer Sciences from All Russian Institute for Scientific and Technical Information (VINITI) of the Russian Academy of Sciences.

Doctor of Technical sciences in Computer Sciences. Doctoral Dissertation: “The Complex of Tools for Adaptation of Decision Support Systems in Economics” from Russian Presidential Academy of National Economy and Public Administration

<http://www.dissforall.com/catalog/t8/science/51/167226.html>.

Was conferred the academic title of professor in the Department of Information Systems in Economics and Management of Russian Plekhanov University of Economics in 2008.

### *PROFESSIONAL EXPERIENCE*

Expert in:

- Enterprise information systems,
- Management Information Systems,
- Business Rules Management Systems,
- Business Analytics.

**1963-1978** – The Head of Department of Automated Control of the State System of Scientific and Technical Information at the Russian Academy of Sciences, VINITI (<http://www.viniti.ru/about.html>).

**Research:**

- Pattern recognition,
- Text scanning and recognition,
- Image processing and filtering by space anisotropic filters,
- Computer image processing,
- Automatic machine for typescript recognition development,
- Natural language understanding by computer,
- All State Information System of the Scientific and Technical Information Development,

- Development of the Automated Control System of State Automated System of Science and Technical Information.

**1978-1999** – Head of Department at VOSKHOD- Scientific Research Institute of the Ministry of Communications of Russia, specializing in the development and implementation of information and communication systems, public and special-purpose, <http://www.voskhod.ru>.

**Research:**

- Information retrieval in the large textual databases,
- Feedback text retrieval,
- Knowledge discovery in the big textual databases,
- Information System of the Federal Employment Service of the Russian Federation,
- Ministry of Social Protection Information System,
- Subsystem “International Agreements” of the Information System of the Ministry of Foreign Affairs,
- Subsystem “Law” of the Russian State Computerized Election System “Elections”.

**January 1999 – 2016 August** – Russian Plekhanov University of Economics <http://www.rea.ru>. Doctor of Technical Sciences, Professor at the Department of Informatics <http://www.rea.ru/ru/org/employees/Pages/Romanov-Viktor-Petrovich.aspx>.

**Lecture courses:**

- E-business Systems (Visio, Wix, ebXML. WSDL, OWL-S, DbSchema. Visual Paradigm for UML Professional 7.2)
- Management Information Systems (Microsoft Dynamics AX, Oracle E-business Suite, SAP CRM, Open source MIS, Cloud MIS)
- Business Rules Management Systems (IBM WebSphere ILOG JRules BRMS, BOSCH Visual Rules Modeler)
- Information Systems in Economics,
- Artificial Intelligence,
- Business Analytics,
- Open Source and Cloud Computing Information Systems.

**Research:**

- Business analytics,
- Innovation ecosystem simulation based on the "predator-prey" model,
- Stock market crash prediction by multifractal analysis,
- Virtual Enterprise Synthesis as Web-Services Composition by Parsing Algorithm,
- Agent Based stock market simulation,
- Dynamic structure of modern innovative companies and simulation their business processes by graph grammars,
- Socialization of Enterprises in the Innovative Economy,
- Rapid response information systems, based on situation calculus,
- Agent Based simulation of economics and wealth distribution,
- University Education Process Control System.
- Business rules application for corporation services fitting to customer profile.

The projects are presented at: <http://www.slideshare.net/ssusera541c8/newsfeed> and [http://www.slideshare.net/ssusera541c8/edit\\_my\\_uploads](http://www.slideshare.net/ssusera541c8/edit_my_uploads)

## Selected Published Books:

1. Romanov V. Intelligent Information Systems (in Russian) – Moscow, 2003 – 560 pp. [www.twirpx.com/file/2926/](http://www.twirpx.com/file/2926/), <http://my-shop.ru/shop/books/294390.html>
2. Romanov V. et al. Basics of Informatics (in Russian) – Moscow, 2003 – 221 pp. <http://www.labyrinth.ru/books>
3. Romanov V. Information Systems for Decision Making (in Russian) – Moscow, 2006 – 349 pp. [http://webirbis.spsl.nsc.ru/irbis64r\\_01/cgi/cgiirbis\\_64.exe?Z21ID=&I21DBN=CAT\\_PRINT&P21DBN=CAT&S21STN=1&S21REF=&S21FMT=fullw\\_print&C21COM=S&S21CNR=&S21P01=0&S21P02=1&S21P03=A=&S21STR=%D0%A0%D0%BE%D0%BC%D0%B0%D0%BD%D0%BE%D0%B2.%20%D0%92%D0%B8%D0%BA%D1%82%D0%BE%D1%80%20%D0%9F%D0%B5%D1%82%D1%80%D0%BE%D0%B2%D0%B8%D1%87](http://webirbis.spsl.nsc.ru/irbis64r_01/cgi/cgiirbis_64.exe?Z21ID=&I21DBN=CAT_PRINT&P21DBN=CAT&S21STN=1&S21REF=&S21FMT=fullw_print&C21COM=S&S21CNR=&S21P01=0&S21P02=1&S21P03=A=&S21STR=%D0%A0%D0%BE%D0%BC%D0%B0%D0%BD%D0%BE%D0%B2.%20%D0%92%D0%B8%D0%BA%D1%82%D0%BE%D1%80%20%D0%9F%D0%B5%D1%82%D1%80%D0%BE%D0%B2%D0%B8%D1%87)
4. Romanov V. Mathematical Foundations of Informatics (in Russian) – Moscow, 2006 – 233 pp. [http://librarynew.gpntb.ru/cgi/irbis64r\\_simple/cgiiirbis\\_64.exe?C21COM=S&I21DBN=IBIS&P21DBN=IBIS&S21FMT=briefwbr&S21ALL=\(%3C.%3EA%3D%D0%A0%D0%BE%D0%BC%D0%B0%D0%BD%D0%BE%D0%B2.%20%D0%92.%20%D0%9F.%3C.%3E\)&Z21ID=&S21SRW=TIPVID&S21SRD=DOWN&S21STN=1&S21REF=10&S21CNR=20](http://librarynew.gpntb.ru/cgi/irbis64r_simple/cgiiirbis_64.exe?C21COM=S&I21DBN=IBIS&P21DBN=IBIS&S21FMT=briefwbr&S21ALL=(%3C.%3EA%3D%D0%A0%D0%BE%D0%BC%D0%B0%D0%BD%D0%BE%D0%B2.%20%D0%92.%20%D0%9F.%3C.%3E)&Z21ID=&S21SRW=TIPVID&S21SRD=DOWN&S21STN=1&S21REF=10&S21CNR=20)
5. Romanov V. et al. Economic Information Systems Design. (in Russian)– Moscow, 2005 – 256 pp. <http://www.books.ru/books/proektirovanie-ekonomicheskikh-informatsionnykh-sistem-241470/>
6. Romanov V. et al. Information Technologies of Financial Market Simulation (in Russian)– Moscow , 2010 – 308 pp. <http://www.ozon.ru/context/detail/id/4967799/>
7. Romanov V. et al. Cognitive Business Analytics. (in Russian) – Moscow, 2010 – 507 pp. <https://sites.google.com/site/reubook/home/katalog-tovarov/kniga1>, [www.mdk-arbat.ru/bookcard?book\\_id=2543937](http://www.mdk-arbat.ru/bookcard?book_id=2543937)
8. Romanov V. et al. Intelligent Analysis of Business Systems Dynamics, 2010 – 320 pp. (in Russian) – [www.idea.com.ua/shop/1006/2032/518/rb128350.html](http://www.idea.com.ua/shop/1006/2032/518/rb128350.html)
9. Romanov V. et al. “Stock Market Information Systems”, Moscow, 2010- 151 pp. <http://absopac.rea.ru/OpacUnicode/index.php?url=/notices/index/IdNotice:163571/Source:default>
10. Romanov V. et al. “Corporate Information Systems”, Moscow, 2011- 131 pp. <http://absopac.rea.ru/OpacUnicode/index.php?url=/notices/index/IdNotice:168226/Source:default>
11. Romanov V., Lelchuk A. “Multiagent systems in economics”, Moscow, 2013 -88 pp. <http://moskva.bezformata.ru/listnews/multiagentnie-sistemi-v-ekonomike/17988556/>
12. Romanov V. et al. “Information systems of enterprises”. Moscow, 2017. - 283pp. <http://znanium.com/catalog.php?bookinfo=536732>

## Selected Publications:

1. Romanov V. «Knowledge discovery in large text databases using the MST algorithm». «Data Mining VI» (Data mining, text mining and their business applications, 2005, Greece) WIT Press, 2005, pp. 153-162.
2. Romanov V. et al. “The simulation of news and insiders’ influence on stock-market price dynamics in a non-linear model“. Computational Finance and its applications II. WIT Press, 2006, pp. 309-318.
3. Romanov V. et al. ” Multifractal analysis and multi agent simulation for market crash prediction “. Computational Finance and its applications III. WIT Press, 2008, pp. 13-22.
4. Romanov V. et al. ”Multifractal Analysis of Stock Market Time Series & the Possibilities of Crash Situation Prediction” (Best Paper Award). The International Group of e-Systems Research and Applications: The International Conference on Computing & e-Systems. An International Forum for Exploring e-Business and e-Government Research, Applications, and Technologies. March 12 - 15, 2008, Hammamet, Tunisia.
5. Romanov V. et al.” Wealth Distribution Evolution in an Agent-Based Computational Economy”, AE 2010 ,Treviso, Italy. [Progress in Artificial Economics Lecture Notes in Economics and Mathematical Systems](#), Volume 645, 2010, pp 191-202.
6. Romanov V. et al.” Different Instrumental Methods Which Can Be Used in New EIS: Theory And Practical Approach”, in: Re-conceptualizing Enterprise Information Systems, 5<sup>th</sup> IFIP WG 8.9 Working Group Conference, CONFENIS 2011, Aalborg, Denmark, October 2011 Revised Selected Papers, Charles MØller, Sohail Chaudry (Eds.), [Lecture Notes in Business Information Processing](#) Volume 105, 2012, Springer, 2012, pp.58-63 [http://rd.springer.com/chapter/10.1007/978-3-642-28827-2\\_4?no-access=true](http://rd.springer.com/chapter/10.1007/978-3-642-28827-2_4?no-access=true)
7. Romanov V. et al.” Adaptive EIS with Business Rules Discovered by Formal Concept Analysis, in: Re-conceptualizing Enterprise Information Systems, 5<sup>th</sup> IFIP WG 8.9 Working Group Conference, CONFENIS 2011, Aalborg, Denmark, October 2011 Revised Selected Papers, Charles MØller, Sohail Chaudry (Eds.), [Lecture Notes in Business Information](#)

[Processing](#) Volume 105, Springer, 2012, pp 105-117.

8. Romanov V. et al. "Branching Processes Theory Application for Cloud Computing Demand Modeling Based on Traffic Prediction", in: *Advanced Information Systems Engineering Workshops, Lecture Notes in Business Information Processing*, 2012, Volume 112, Part 4, Part 13, p. 502-510, <http://www.springerlink.com/content/v335586115066226/>
9. Romanov V., Moskovoy I., and Grigoryeva K. "Interactive Depth First Algorithm for Oil Transportation Emergency Response Planning", in: *Summer Computer Simulation Conference (SCSC 2014) Monterey, California, USA, 6-10 July 2014* Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 pp. 136-144 <http://www.proceedings.com/22692.html>
10. Victor Romanov, Daria Novotoskih, Cyrill Dutov. "Socialization of Enterprises in the Innovative Economy and Ontology Automated Modification", in: *International Journal of Innovation, Management and Technology*, Vol. 7, No. 2, (Apr 2016): 57-61.
11. V. Romanov, H. Agafonova, S. Sandybaeva, N. Nikullin "Innovation Process Simulation on the Base Predator and Prey Model", in *International Journal of Innovation, Management and Technology*, Vol. 6, No. 1, 2015, pp. 117-131.
12. Romanov V.P., Ahmadeev B.A. «Innovation System Simulation on the Base «Predator – Prey Model»// in Russian, Moscow: in "Business-Informatics" №1(31)–2015 г. pp. 28-38.
13. Romanov V.P. et al. "Dynamics structure of modern innovative enterprise"// in Russian, Moscow, in "*Statistics and Economics* Vol. 13. № 5. 2016, pp. 57-62.

### Certificates:

1. SAP NetWeaver Business School
2. Oracle 9i DBA Fundamentals 1 of Oracle Corporation

### Honors and Awards:

- *Romanov V. (Author of the Project) Computerworld Honor Gold Medal 2007*. "University Education Process Control System". <http://www.cwhonors.org/archives/2007/index.htm>
- *Romanov Victor et. al. Best paper awards* for the paper "Multifractal Analysis of Stock Market Time Series and Possibilities of Crash Situation Prediction", The International Conference on Computing & e-Systems. An International Forum for Exploring e-Business and e-Government Research, Applications, and Technologies. March 12 - 15, 2008, Hammamet, Tunisia.
- *Romanov Victor et. al. "Wealth Accumulation Effect in a Multi-Agent Model"- Outstanding Poster Award* in recognition of the Poster Quality, Originality and Significance in Modeling & Simulation. The 2010 Summer Simulation MultiConference. Ottawa, Canada, 11-14 July, 2010.
- *Romanov Victor et. al. "Innovation Process Simulation on the base "Predator and Prey Model", Certificate for Excellent Paper*. The 2015 8-th International Conference on Computer Modeling and simulation (ICCMS 2015). Amsterdam, Netherland, February 12-13, 2015.

### Working Group, Committees and Associations:

- Member of Working Group - IFIP TC8 WG 8.9 Enterprise Information Systems
- Member of Program Committee CONFENIS 2009 -2015: International Conference on Research and Practical Issues of Enterprise Information Systems
- Society for Modeling & Simulation International (SCS) member.
- Member of the Simulation Interoperability Standards Organization (SISO)
- EOMAS 2010-2016 International Program Committee Member
- 2017 International Conference on Management, Technology and Services (ICMTS 2017) Technical Committee Member
- Program Committee Chairs of the 5th International Conference on System Modeling and Optimization, Paris, France during February 8-12, 2017

*Languages: Russian, English, French*

*Permanent Resident of the United States*