

CURRICULUM VITAE

Sergey Kuchero

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Southern Federal University

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Research interests

- Databases
 - NoSQL-technologies
 - Subject-oriented approach
 - 1C:Enterprise development
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Educational background

Candidate of Technical Sciences in Information systems and processes, 2014

Southern Federal University, Taganrog, Russia

Research Areas: Development and research of models and the method of designing structure-independent databases for configurable information systems (advisor: Prof. Yuri I. Rogozov)

Master in Informatics and computer science, 2010

Taganrog institute of technologies, Southern federal university, Taganrog, Russia.

Research Areas: Development and research of a method for constructing information system database with a static structure (advisor: Prof. Prof. Yuri I. Rogozov)

Bachelor in Informatics and computer science, 2008

Taganrog institute of technologies, Southern federal university, Taganrog, Russia.

Employment history

April 2009 – June 2015 Engineering and Technological Academy, Southern Federal University, Institute of Computer Technology and Information Security, Department of System analysis and telecommunications, Assistant.

September 2015 – present Engineering and Technological Academy, Southern Federal University, Institute of Computer Technology and Information Security, Department of System analysis and telecommunications, Associate Professor.

Publications

Papers:

1. Kutcherov, S.A. Purpose-driven approach for flexible structure-independent database design / S.A. Kutcherov, Y.I. Rogozov, A.S. Sviridov, W.Bodrov. // Proceedings of the Fifth International Conference on Software and Data Technologies, ICSoft, Volume 1, — 2010. — p.356–362.
2. Rogozov Yu. I., Sviridov A.S., Kuchero S.A. Method of Constructing Structure-Independent Databases with Using Relational Technologies // Novye tekhnologii, INFORMATION TECHNOLOGIES, №2, — 2011. — p.52–59.

3. Rogozov Yu.I., Sviridov A.S., Kucherov S.A. STRUCTURE-INDEPENDENT DATABASES FOR USER-CONFIGURABLE INFORMATION SYSTEMS // Informatization and communication, № 3 (2013), — 2013. — p. 20–23.
4. Kucherov S.A. THE METHOD OF CONFIGURING DYNAMIC DATABASES // “Izvestiya SFedU. Engineering Sciences” , №6 (2014) p.116–123
5. Rogozov Y., Sviridov A., Kucherov S. The method of configuring dynamic databases. Information and Communication Technology for Education (ICTE-2013). Publisher: WIT Press. Southampton, Boston, Vol. 58. p.163–173
6. Kucherov S.A. User-configurable information systems as a tool to overcome the semantic gap // Informatization and communication, № 5 (2013), — 2013. — p. 135–137.
7. Sergey Kucherov, Alexander Sviridov, Svetlana A. Belousova. The formal model of structure-independent databases // Proceedings of 3rd International Conference on Data Management Technologies and Applications, Vienna, Austria, Scitepress – Science and Technology Publications. ISBN: 978-989-758-035-2. p. 146–152
8. Yuri Rogozov, Segrey Kucherov, Elena Borisova. Structure-independent databases modelling // Proceedings of IEEE 8th International Conference on Application of Information and Communication Technologies – AICT2014. IEEE Catalog Number CFP1456H-PRT, ISBN: 978-1-4799-4120-9 2, p. 192–196
9. Sergey Kucherov, Julia Lipko, Oksana Schevchenko. The integrated life cycle model of configurable information system // Proceedings of IEEE 8th International Conference on Application of Information and Communication Technologies – AICT2014. IEEE Catalog Number CFP1456H-PRT, ISBN: 978-1-4799-4120-9 2, p. 182–186
10. Sergey Kucherov, Alexey Samoylov, Andrei Grishchenko. Flexible database for configurable information systems // Proceedings of IEEE 8th International Conference on Application of Information and Communication Technologies – AICT2014. IEEE Catalog Number CFP1456H-PRT, ISBN: 978-1-4799-4120-9 2, p. 374–377
11. Kucherov S.A. WAREHOUSE CONCEPTUAL MODEL FOR CONFIGURABLE INFORMATION SYSTEMS ON THE BASE OF NOSQL-TECHNOLOGY // “Izvestiya SFedU. Engineering Sciences” , №4 (2015) С.190–202

Monograph:

12. Rogozov Y.I., Sviridov A.S., Degtyarev A.A., Kucherov S.A. The method of organizing data processing algorithms in configurable information systems // Rostov-on-Don: SFEDU, 2014. – 110 p.

Patents:

13. Rogozov Y.I., Sviridov A.S., Kucherov S.A.
The development environment of dynamic modules configurable information systems
Certificate of state registration of the computer program №2014611627
14. Sviridov A.S., Kucherov S.A., Schevchenko O.V. Editor library of data structures in the subject areas in configurable information system. Certificate of state registration of the computer program №2015610128.
15. Rogozov Y.I., Lipko Y.Y., Kucherov S.A.. Module to create custom data warehouse environment configurable information system. Certificate of state registration of the computer program №2015610323.

RESEARCH FUNDING AND GRANTS

- **2012**
- ***Development of method for creating schemas of structure-independent database for adaptive information systems***
Sponsor: Russian Foundation for Basic Research
Role in project: executor
Project Number: 12-07-00202a
Status: Awarded Jan 2012, 3 years, Completed.

- **2013**
- ***Theoretical basis development for software frameworks which are the basis of computerized instruments***
 Sponsor: Russian Foundation for Basic Research
 Role in project: executor
 Project Number: 12-07-00202a
 Status: Awarded Jan 2013, 3 years, Completed.
- **2014**
- ***Development of fundamentals of the theory configurable information systems structure control***
 Sponsor: Russian Foundation for Basic Research
 Role in project: executor
 Project Number: 14-07-00910a
 Status: Awarded Jan 2013, 3 years, Continuous.
- **2014**
- ***Development of methods for the creation of configurable data warehousing information systems and mechanisms for their implementation***
 Sponsor: The Ministry of Education and Science of Russia
 Role in project: head
 Project Number: 2287
 Status: Awarded Jan 2014, 2 years, Partially completed.
- **2015**
- ***Development of methods for user data modeling in flexible configurable information systems***
 Sponsor: Russian Foundation for Basic Research
 Role in project: executor
 Project Number: 15-07-04102a
 Status: Awarded Jan 2015, 3 years, Continuous.
- **2015**
- ***Methodology for the creation of the subject – oriented basic abstraction as a symbolic form of cognitive activity of the subject***
 Sponsor: Russian Foundation for Basic Research
 Role in project: executor
 Project Number: 15-07-04429a
 Status: Awarded Jan 2015, 3 years, Continuous.
- **2015**
- ***The development of method and CASE-tool for configurable information systems design***
 Sponsor: Russian Foundation for Basic Research
 Role in project: executor
 Project Number: 15-07-04250a
 Status: Awarded Jan 2015, 3 years, Continuous.
- **2015**
- ***Development of subject-oriented data model for configurable information systems***
 Sponsor: Russian Foundation for Basic Research
 Role in project: head
 Project Number: 15-07-04033a
 Status: Awarded Jan 2015, 3 years, Continuous.