

## CURRICULUM VITAE

1. **Name:** Adil Amirjanov
2. **Date of Birth:** October 2, 1949
3. **Academic Rank:** Professor, PhD.

### 4. Education

Name Degree	Field	Institution	Date
M.S.	Electrical Engineering	Azerbaijan State Oil Academy	1971
Ph.D.	Computer Engineering	State Aircraft Institute (Russia, Ufa-Moscow)	1980

### 5. Akademic Titles:

<b>Assistant Professor</b>	:	1996
<b>Associate Professor</b>	:	2005
<b>Professor</b>	:	2010

### 6. Theses

#### 6.1 Master Thesis

- Genetic algorithms in numerical and combinatorial optimization problems.
- Comparing the penalty methods in Genetic Algorithms.
- Message Passing Interface and Parallel Virtual Machine System: Concept and Implementation.
- Database driven Web applications: Concept and Examples.
- Multithreaded Software Design: Concept and Implementation.
- Performance Improvement of Operating System Process Manager
- Object data Modeling as Structuring Approach for Database Design

#### 6.2 PhD Thesis

- Analysis and design of an image compression system based on objective and subjective quality measurements (PhD student: Kamil Dimililer)

### 7. Publications

#### 7.1 Books

- A. Amirjanov, Java Programming for Students, Bilesim, 2006.
- A. Amirjanov, Öğrenciler İçin Java Programlama, Bileşim, 2007.

#### 7.2 SCI / SCI-Expanded Journals

- M. Moini, I. Flores-Vivian, A. Amirjanov and K. Sobolev, The optimization of aggregate blends for sustainable low cement concrete, CONSTRUCTION AND BUILDING MATERIALS, Vol. 93, 2015, pp. 627-634.
- A. Amirjanov and K. Sobolev, Changing range genetic algorithm for multimodal function optimisation, INTERNATIONAL JOURNAL OF BIO-INSPIRED COMPUTATION, Vol. 7, No. 4, 2015, pp. 209-221.
- A. Amirjanov, The parameters setting of a changing range genetic algorithm, NATURAL COMPUTING, Vol. 14, No. 2, 2015, pp. 331-338.
- Amirjanov and K. Sobolev, Fractal dimension of Apollonian packing of spherical particles. ADVANCED POWDER TECHNOLOGY, Vol. 23, No. 5, 2012, pp. 591-595.
- A. Amirjanov, Modeling selection and extinction mechanisms of biological systems. INTERNATIONAL JOURNAL OF MODERN PHYSICS C, Vol. 22, No. 7, 2011, 669 -686.
- K. Sobolev and A. Amirjanov, Application of genetic algorithm for modeling of dense packing of concrete aggregates. CONSTRUCTION AND BUILDING MATERIALS, Vol. 24, no. 8, 2010, pp.1449-1455.
- A. Amirjanov, The dynamics of a changing range genetic algorithm. INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, Vol. 81, no. 7, 2010, pp. 892-909.
- A. Amirjanov, The dynamics of a changing range genetic algorithm under stabilizing selection. INTERNATIONAL JOURNAL OF MODERN PHYSICS C, Vol. 20, No. 7, 2009, 1063 - 1079.
- A. Amirjanov, The Performance of Genetic Algorithm with Adjustment of a Search Space. INTERNATIONAL JOURNAL OF MODERN PHYSICS C, Vol. 20, No. 4, 2009, 565-583.
- A. Amirjanov, Modelling the dynamics of an adjustment of a search space size in a genetic algorithm. International Journal of Modern Physics C, Vol. 19, No. 7, 2008, pp. 1047–1062.
- A. Amirjanov and K. Sobolev, Optimization of Computer Simulation Model for Packing of Concrete Aggregates. PARTICULATE SCIENCE AND TECHNOLOGY, Vol. 26, 2008, pp. 380–395.
- A. Amirjanov, Investigation of a Changing Range Genetic Algorithm in Noisy Environments. INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, Vol. 73, No. 1, 2008, pp. 26-46.
- K. Sobolev and A. Amirjanov, The simulation of particulate materials packing using particle suspension model. ADVANCED POWDER TECHNOLOGY, Vol. 18, No. 3, 2007, pp. 261-271.
- A. Amirjanov, The Development a Changing Range Genetic Algorithm. COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, Vol. 195, 2006, pp. 2495-2508.
- A. Amirjanov and K. Sobolev, Fractal properties of Apollonian packing of spherical particles. MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING, Vol. 14, 2006, pp. 789-798.
- A. Amirjanov and K. Sobolev, Genetic algorithm for cost optimization of modified multi-component binders, BUILDING AND ENVIRONMENT, Vol. 41, No. 2, 2006, pp. 195-203.
- A. Amirjanov and K. Sobolev, Optimal proportioning of concrete aggregates using a self-adaptive genetic algorithm, COMPUTERS & CONCRETE, Vol. 2, No. 5, 2005, pp. 411-421.
- A. Amirjanov, A Changing Range Genetic Algorithm. INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, Vol. 61, No. 15, pp. 2660-2674, 2004 .

- K. Sobolev and A. Amirjanov, The Development of a Simulation Model of the Dense Packing of Large Particulate Assemblies. *POWDER TECHNOLOGY*, Vol. 141, 2004, pp. 155-160.
- K. Sobolev and A. Amirjanov, A Simulation Model of the Dense Packing of Particulate Materials. *ADVANCED POWDER TECHNOLOGY*, Vol. 15, No. 3, 2004, pp. 365-376.

### 7.3 Chapters in International Books

- K. Sobolev and A. Amirjanov, A Simulation Model of the Packing Arrangements of Concrete Aggregates, in: B. Mobasher, J.P. Skalny (Eds.), *Transport Properties and Concrete Quality*, John Wiley & Sons, 2007.
- A. Amirjanov and K. Sobolev, Changing Range Genetic Algorithm: A New Optimization Approach with Improved Performance, in A. R. Mufoz and I. G. Rodriguez (Eds.), *Handbook of Genetic Algorithms: New Research*, Nova Science Publishers, 2012.

### 7.4 International Symposium and Conference Proceedings

- I. Avdeev, K. Sobolev, A. Amirjanov, A. Hastert, Micromechanical Models of Structural Behavior of Concrete, in *Advanced Structural Materials—2010*, edited by Hector A. Calderon, Armando Salinas Rodriguez, Heberto Balmori-Ramirez (Mater. Res. Soc. Symp. Proc. **Volume 1276**, Warrendale, PA, 2010)
- A. Amirjanov, K. Sobolev, Evolutionary Approach for Cost Optimization of Modified Multi-Component Binders: 1<sup>st</sup> International Conference on Advanced Construction Materials “ACON-06” December 3-6, 2006, Monterrey, Mexico, pp. 209-228.
- A. Amirjanov, Island Model Changing Range Genetic Algorithm: Proceeding of International Symposium ISEECE-2006, Nicosia, Northern Cyprus, Turkey, November 23-25, 2006, pp.63-69.
- K. Sobolev, A. Amirjanov, R. Hermosillo and F.C. Lozano, Packing of Aggregates as an Approach to Optimizing the Proportioning of Concrete Mixtures Aggregates: Asphalt Concrete, Portland Cement Concrete, Bases, and Fines – ICAR/AFTRE/NSSGA Symposium, April 4-7, 2004, Denver, Colorado, USA.
- A. Amirjanov, Analysis of Approaches for Creation of Multiple Threads by Hardware, Proceedings of the 2<sup>nd</sup> FAE International Symposium, LAU, 2002, pp. 261-267.
- A. Amirjanov, Developing of Abstractions in Programming Languages. Proceedings of the 10<sup>th</sup> Year FAE Symposium, LAU, Lefke, TRNC, 2000, pp. 131-135.
- Chebarev A. and Amirjanov A., Assessment of Response of Sensor Input Devices. PROCEEDINGS OF CONFERENCE “Information and Measurement Systems”, Baku, 1978, pp. 22-27 (in Russian).
- Chebarev A., Revenko V., Amirjanov A. and Kamalova D., Design of Sensor Devices, PROCEEDINGS OF CONFERENCE “Computer-Aided Design”, Chelyabinsk, USSR, 1978, pp.56-61 (in Russian).
- Chebarev A., Amirjanov A. and Kamalova D., Classification of Sensible Transformers. PROCEEDINGS OF CONFERENCE “Computer Information and Control Systems”, Tashkent, USSR, 1975, pp. 88-97 (in Russian).

### 7.5 Patents

1. Scanner of a Graphical Data, SU 591880, Russia, 1978
2. Device for a Control of a Screen Marker, SU 714441, Russia, 1980

### 7.6 Other Selected Publications

- Amirjanov A., Digital Filters for Generating of Test Signals. COMMUNICATION EQUIPMENTS, vol. 11, pp. 34-52, Moscow, Russia, 1990 (in Russian)
- Amirjanov A., Analysis of Test Signals for Measuring Parameters of PCM Systems. WIRED COMMUNICATION, vol. 3, pp. 42- 53, St.Petersburg, Russia, 1985 (in Russian)
- Chebarev A., Amirjanov A. and Kamalova D. Principles of Construction of Touch Sensors for Computer Systems. PROCEEDINGS OF CYBERNETIC INSTITUTE, vol. 3, pp. 42-55, Kiev, Ukraine, 1977 (in Russian)
- Amirjanov A., Optimization of Characteristics of Touch Sensors Based on the Resonance Circuits. PROCEEDINGS OF INSTITUTE OF AUTOMATIC EQUIPMENTS, vol. 6, pp. 10-21, Moscow, Russia, 1977 (in Russian)
- Chebarev A., Amirjanov A., Revenko V., Vorobyev V., Kamalova D., Control System for Moving A Screen Marker. MACHINES AND SYSTEMS, vol. 6, pp. 24-26, Moscow, Russia, 1976 (in Russian)

### 8 Activities

Coordinator of Programming Languages related courses 2004 – present

### 9 Awards

- Certificate of Appreciation, Research Award, Near East University, 2010.
- Certificate of Appreciation, Research Award, Near East University, 2009.
- Award for Lecture series on experiment planning and modeling, Doctorate Program on Construction Materials and Structures, Facultad de Ingeniería Civil, Universidad Autónoma de Nuevo León, Mexico, 2006
- 10<sup>th</sup> Year FAE Symposium Award, European University of Lefke, Northern Cyprus, 2000
- Premium for Research on Development Digital Measuring Systems, St.Petersburg, Russia, 1989-1990
- Special Scholarship, Azerbaijan Petroleum Academy Baku, Azerbaijan, 1969-1971

### 10 Teaching Activities

Akademic Year	Semester	Name of course	Hours per week		Number of students
			Theory	Lab	
2012/2013	Fall	Geographic Information Systems	4		10
		Software Engineering	4	2	28
		Programming Language Concepts	4		25
	Spring	Advanced Software Engineering	4		9 (MS)
		Object-Oriented Programming II	4	2	10
		Software Tersting	4		11
2013/2014	Fall	Geographic Information Systems	4		9
		Software Engineering	4	2	18
		Programming Language Concepts	4		21

	<b>Spring</b>	Software Engineering	4	2	12
		Genetic Algorithms	4		8
2014/2015	<b>Fall</b>	Software Engineering	4	2	11
		Programming Language Concepts	4		19