

ARCHIL ELIASHVILI
CONTROL SYSTEMS INSTITUTE
Scientific Report

2014B

Direction - Control Processes

The Department of Information Disclosure Problems

*** Scientific-Research Works Planned and Implemented in 2014 Funded by the State Budget of Georgia**

#	Planned and Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	Processing and research of microprocessor system of contactless adaptive control of sem-positional dynamic object (2012-2014). Control systems, elements and equipment of management systems and computing machines.	Otar Labadze	M. Tsertsvadze L. Gvaramadze Z.Buachidze V.Bakhtadze P. Stavrianid G.Kiknadze
2	Title of the Work	Work Supervisor	Work Performers
	A large constant optothyristor power source controlled in a wide input range	Otar Labadze	T. Saanishvili L. Gvaramadze C. Kiknadze D. Purtskhvanidze P. Stavrianid

			T. Khutsishvili
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Department of Optimal Control Problems

*** Scientific-Research Works Planned and Implemented in 2014 Funded by the State Budget of Georgia**

#	Planned and Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	Theoretical and practical aspects of optimization in partially sorted spaces Control theory Optimal control (2013-2015)	Besarion Shanshiashvili	Vladimer Gabisonia Mindia Salukvadze Vakhtang Chichinadze Nely Kilasonia Dali Sikharulidze Dudukhana Tsintsadze Ketevan Omiadze Nugzar Dadiani Soso Gogodze Victor Khutsishvili

Department of Management Systems and Modeling

***Scientific-Research Works Planned and Implemented in 2014 Funded by the State Budget of Georgia**

#	Planned and Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	Research of the problem of use of noise oscillations of movable mechanisms in management and	Tamaz Trokashvili	Urushadze Guram Shengelia Nodari Gegechkori Mery

	diagnostics Construction and testing of the sample of the control device for the frequency regulator of the Hydro Power; Study of the problem of using noise oscillations of movable mechanisms in control and diagnostics (2014_2016)		Geliashvili Lia
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Direction - **Informatics**

V. Chavchanidze

Artificial Intelligence Problems Department

*** Scientific-Research Works Planned and Implemented in 2014 Funded by the State Budget of Georgia**

#	Title of the Work	Work Supervisor	Work Performers
1	<p>Title: Establish an intellectual system designed to diagnose, predict and select ways of treatment for a certain class of diseases.</p> <p>Field: Informatics</p> <p>Direction: Artificial intelligence, models of information systems</p>	Maia Mikeladze - Head of the Department, Chief Scientific Worker	Vadim Radzievski Nora Jaliabova Dimitri Radzievski Gela Besiashvili Papuna Karchava

Department of Language and Speech Systems

#	Planned and Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	Computer analysis of Georgian sentence in interactive mode (2013-2015)		Nino Amirezashvili Liana Lortkipanidze Liana Samsonadze Ana Chutkerashvili Nino Javakhishvili
2	Title of the Work	Work Supervisor	Work Performers
	Research of interconnection between biometric signs of hearing and speech (2012-2014)	Giorgi Chikoidze	M. Tushishvili G. Kapanadze, A. Tushishvili

**Direction - Power Engineering Problems
V. Gomelauri
Department of Power Engineering Problems**

***Scientific-Research Works Planned and Implemented in 2014 Funded by the State Budget of Georgia**

#	Planned and Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	Modern tendencies of power engineering development and	T. Magrakvelidze	N. Bantsadze Kh. Lomidze M. Janikashvili

	problems of optimal utilization of Georgia's energy resources (power engineering)		I. Archuadze A. Miqashavidze N. Mirianashvili N. Gdzhelishvili V. Khatashvili
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