ARCHIL ELIASHVILI CONTROL SYSTEMS INSTITUTE

Scientific Report

2015B

Direction - Control Processes

The Department of Information Disclosure Problems

I. 1. Scientific-Research Works Planned and Implemented in 2015 Funded by the State Budget of Georgia

	Planned and Implemented work		
#	with the indication of scientific	Work Supervisor	Work Performers
	field and direction		
1	Development of equipment for converting information by using modern technologies (2014-2016).		
	Task 1 Processing and research of microprocessor system of contactless adaptive control of sem-positional dynamic object		M. Tsertsvadze L. Gvaramadze Z.Buachidze
	Control systems, elements and equipment of management systems and computing machines.		V.Bakhtadze P. Stavrianid G.Kiknadze
	Task 2		
	Development and construction		M. Tsertsvadze

contactless half-spherical inductive and inter-inductive primary transformer of angular displacement of 3D-type. Task 3 A large constant optothyristor power source controlled in a wide input range Direction: Control systems, elements and equipment of management systems and computing machines. P. Stavrianid P. Stavrianid G. Kiknadze D. Furtskhvanidze T. Saanishvili L. Gvaramadze G. Kiknadze D. Furtskhvanidze P. Stavrianid	of multi-sector non-inertial	L. Gvaramadze
primary transformer of angular displacement of 3D-type. Task 3 A large constant optothyristor power source controlled in a wide input range Direction: Control systems, elements and equipment of management systems and computing machines. G.Kiknadze D. Furtskhvanidze T. Saanishvili L. Gvaramadze G.Kiknadze D. Furtskhvanidze	_	P. Stavrianid
A large constant optothyristor power source controlled in a wide input range Direction: Control systems, elements and equipment of management systems and computing machines. T. Saanishvili L. Gvaramadze G.Kiknadze D. Furtskhvanidze	primary transformer of angular	
power source controlled in a wide input range Direction: Control systems, elements and equipment of management systems and computing machines. T. Saanishvili L. Gvaramadze G.Kiknadze D. Furtskhvanidze	Task 3	V.Bakhtadze
Control systems, elements and equipment of management systems and computing machines. L. Gvaramadze G.Kiknadze D. Furtskhvanidze	power source controlled in a	
T. khutsishvili	Control systems, elements and equipment of management systems and computing	L. Gvaramadze G.Kiknadze D. Furtskhvanidze P. Stavrianid

Department of Optimal Control Problems

I. 1. Scientific-Research Works Planned and Implemented in 2015 Funded by the State Budget of Georgia

#	Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
	Research of the identification of control systems and vector optimization problems on the		Mindia Salukvadze Besarion Shanshiashvili Nely Kilasonia

basis of modern information	Dali Sikharulidze
technologies (2014-2016).	Dudukhana Tsintsadze
	Ketevan Omiadze
Control theory,	Nugzar Dadiani
Identification of control systems,	Soso Gogodze
	Victor Khutsishvili
Optimal control.	

Department of Management Systems and Modeling

I. 1. Scientific-Research Works Planned and Implemented in 2015 Funded by the State Budget of Georgia

I.2.

	Implemented work with the		
#	indication of scientific field and	Work Supervisor	Work Performers
	direction		
1	Construction and testing of the	T. Trokashvili	Urushadze Guram
1	Construction and testing of the	1. Trokasnviii	
	sample of the control device for		2. Shengelia Nodari
	the frequency regulator of the		3. Gegechkori Mery
	Hydro Power; Study of the		4. Doghonadze Nino
	problem of using noise		5. Geliashvili Lia
	oscillations of movable		
	mechanisms in control and		
	diagnostics (2014_2016)		
	Scientific field:		
	Engineering science		
	Scientific direction:		

Control in technical systems	
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Direction - **Informatics**

V. Chavchanidze Artificial Intelligence Problems Department

I. 1. Scientific-Research Works Planned and Implemented in 2015 Funded by the State Budget of Georgia

#	Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	Title: Establish an intellectual system designed to diagnose, predict and select ways of treatment for a certain class of diseases (2014-2016). Field: Informatics Direction: Artificial intelligence, models of information systems	Maia Mikeladze	Vadim Radzievski Nora Jaliabova Gela Besiashvili Papuna Karchava Dimitri Radzievski

I. 1. Scientific-Research Works Planned and Implemented in 2015 Funded by the State Budget of Georgia

I.2.

#	Planned and Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	Computer analysis of Georgian sentense in interactive mode (2014-2016)		Nino Amirezashvili Liana Lortkipanidze Liana Samsonadze Ana Chutkerashvili Nino Javakhishvili Mikheil Tushishvili Guram Kapanadze, Ala Tushishvili

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

I. 1. Scientific-Research Works Planned and Implemented in 2015 Funded by the State Budget of Georgia

#	Implemented work with the indication of scientific field and direction	Work Supervisor	Work Performers
1	The study of optimization of structures of Georgia's power stations and increasing the efficiency of energy equipment	3	N. Bantsadze Kh. Lomidze M. Janikashvili I. Archuadze A. Miqashavidze

(2015-2016)	Ts. Shengelia
	I. Mantidze
	N. Mirianashvili
	N. Gdzhelishvili
	V. Khatashvili