

CV and LIST of PUBLICATIONS

ASSOCIATE PROFESSOR, ŞAHLAR MAHARRAMOV (MEHERREM)

Education:

Degree	Department	University	Years
Master	Mathematics	Baku State University, Azerbaijan	1994
PhD	Optimization and Optimal Control	Institute Of Cybernetics, National Academy of Azerbaijan, Institute of Cybernetics	.2003
Associate Prof. (Doc Dr)	Mathematics	Yasar University, Turkey	2015

Title of the Doctoral thesis:

Necessary Optimality Conditions for One Class Discrete Optimal Control Problem.

Job Duty:

Job experiences	University	Years
Research Assistant	Institute of Cybernetics, National Academy of Science of Azerbaijan	1994-2004
Dr.	Freiberg University, Germany, (DFG and DAAD Project)	2004-2005
Assist. Prof. Dr	Institute of Cybernetics, National Academy of Science of Azerbaijan	2005-2006
Assist. Prof.	Yasar University, Turkey	2006-2015
Associate Prof (YÖK)	Yasar University, Turkey	2015-

Supervised Doctoral and Master thesis:

- 1) Deniz Gücoğlu, **Optimal Control for descriptor System**, (2013-
- 2) Merve Sengul , **Subdifferential in Nonsmooth Optimal Control Problem**, (2009-2011)
- 3)Ece Curbuz, **Subdifferential in Nonsmooth Analysis**, (2009- 2011)
- 4) Cem Oğuz, **Discrete Optimal Control Problem**, (2009 2011).
- 5) Yesim Ipek, **Hybrid Optimal Control Problem**, (2010-2012)
- 6) Ertem Özöglu, **Dubovitskii-Milyutin Theory in Switching Control System**, (2012-2014
- 7) Fatih Kuzgun, **Yüksek Mertebeden Linear Fark Denklem Sistemlerinin Schur Kararlılığının Hassasiyeti**, (2013-)

Project, Conducted:

DFG (**Almaniya Bilim Fondu**) ve DAAD (**Almaniya Arařtırma Deyiřim Merkezi**) , 2004-2005, Arařtırmaçı Doktor, Freiberg Üniversitesi (**Almaniya**) , No. D2005II.
Tubitak Projesi-2221 , Prof. Dr. Galina Kurina (**Russia, Moskva Devlet Üniversitesi**), 2014.

Memberships in Scientific organization:

Azerbaycan Matematikciler Cemiyeti,

Reviwer:

- 1) Pacific Journal of Optimization,
- 2) British Journal of Mathematics and Computer Sciences.

Administrative Duty:

Erasmus Coordinator

Award :

University Honor Diplom,

Awards by National Science Chancellor of Turkey, 2008, 2010, 2011, 2012, 2013, 2014 Yeras

Teaching Experience

Academic Years	Session	Subject	Weekly		Number of Students
			Teorik	Uygulama	
2012-2013	Fall	Ordinary Differential Equations	4	0	36
		Advanced Calculus	3	2	40
		Functional Analysis	4	0	30
		Special Topics in Applied Mathematics (Optimal Control and Nonsmooth Optimization)	3	0	8
		Functional Analysis	3	0	7
	Springr	Ordinary Differential Equations	4	0	36
		Advanced Calculus	3	2	40
		Functional Analysis (Master Students)	4	0	30
		Functional Analysis (Master Students)	3	0	7

2013-2014	Fall	Ordinary Differential Equations	4	0	27
		Advanced Calculus	3	2	27
		Special Topics in Applied Mathematics (Optimal Control)	4	0	15
		Advanced Functional Analysis (Master Students)	3	0	5
	Spring	Ordinary Differential Equations	4	0	27
		Advanced Calculus	3	3	27
		Special Topics in Applied Mathematics (Optimal Control)	4	0	15
		Functional Analysis (Master Students)	3	0	5

List Of Publications

A. SCI and SCI-E and internationally reviewed, indexed journal articles :

A1. S. Meherrem and Deniz Gücöglü, Numerical Solution for Linear Descriptor Optimal Control Systems (submitted paper) 2015,

A2. G. Kurina and S. Meherrem, Decomposition of Discrete Linear-Quadratic Optimal Control Problems for Steps Systems, AIMS Journal, Discrete and Continuous Dynamical Systems, accepted for 2015 Years, 10 pp.

A3. Sh. Maharramov, Necessary Optimality for Switching Optimal Control Problem, **American Institute of Mathematical Sciences, Journal of Industrial and Management Optimization**, Vol.3, No.4, p. 47-56, 2010.

A.4. S. Meherrem and R. Akbarov, Optimal Control Problem For Switched System with the Nonsmooth Cost Functional, **Abstract and Applied Analysis** , Vol 2013, ID 681862, 1-6 pp.,

A5 . S. Meherrem and R. Polat, Weak subdifferential in Nonsmooth Analysis and Optimization, **Journal of Applied Mathematics** , Vol. 2011 p. 1-9, Article ID 204613, doi: 10.1155|2011|204613.

A6. . C. Oguz, Y. Ahmet and Sh. Meherrem, On the solution of the Generalized Bretherton Equation by the Homogeneous Balance Method, **Communication in Numerical Analysis**, Vol. 2012, doi:10.5899/2012/cna-00052 , 11 p. , 2012

A7. R. Akbarov, S. Meherrem and Yesim Cingillioglu, Switching Discrete Control Problem, **Proceedings of Problems of Cybernetics and Informatics**, p. 106-109, 2012

A8. S. Maharramov, Optimality Condition for Nonsmooth Switching Control Problem, **Automatic Control and Computer Science** , 94-101 pp., Vol. 42, Iss.2., 2008.

A9. S. Maharramov (Magerramov) and K. Mansimov, Optimization of a Class of Discrete step control System, **Journal of Computational Mathematics and Mathematical Physics (Russian Academy of Science, Jurnal Vichislitel'naya Matematika and Mathematical Fizik)**, 360-366 pp., Vol. 3, 2001.

A10. S. Maharramov, Investigation of singular Control in one Discrete System with Variable structure and Delay, **Proceedings of Institute Mathematics and Mechanics of Azerbaijan**, 169-176 pp., 2001

A11. S. Maharramov, Sufficient Optimality Conditions Type Krotov for one Class Discrete system with Varing Structure, **Azerbaijan Republic, Tahsil Community, Journal of Bilgi**, 36-43 pp., 2000 (1), (in Russian)

A12. S. Maharramov, Quasi-Singular Control for Discrete System with Varying Structure, **Azerbaijan Republic, "Tahsil" community, Journal of Bilgi**, 44-52 pp., 2003, (in Russian)

A13. K. Mansimov and S. Maharramov, Second order Optimality Conditions for Discret Optimal Control Problem with Varying Structure, **Azerbaijan Republic, Tahsil Community, Journal of Bilgi**, (in Russian), 2000(2).

B. Proceedings and internationally reviewed journal articles :

B1. S. Maharramov, Z. Ors and A. Guler, The Third International Conference, Problems of Cybernetics, **Optimal Control for Hybrid System**, 44-48 pp., Baku, Azerbaijan, 2010.

B2. S. Maharramov, The International Conference of Applied Problems of Mathematics, **Investigation One Class of Control System (In Russian)**, Page 56-59, Baku State University 2001, Azerbaijan.

B3. S. Maharramov, Workshop on PDE Constrained Optimization, **Optimization of Discrete System with Varying Structure**, p.25-26, 2005, Portugal.

B4. S. Maharramov, 23th European Conference on Operational Research, **Nonsmooth Switching Optimal Control Problem**", 231 pp., Germany, Bonn, 2009.

B5. Meherrem Sh and Deniz Gücoğlu, Book of Abstracts of 1st International Scientific Conference of Young Scientists and Specialists, Dubavitskii- Milyutin Theory in Optimal Control with Variable Structure, p.248-249, October, 2014, Azerbaijan.

B5. Deniz Gücoğlu and Meherrem Sh, Book of Abstracts 1st International Scientific Conference of Young Scientists and Specialists, Decomposition of linear-quadratic optimal control problems for two-steps systems with unknown switching points , p.189-190, October, 2014, Azerbaijan.

C.Books:

C1. Sh. Maharramov, Necessary optimality conditions for a discrete control system, **Lambert Academic Publishing (Germany)**, ISBN-10: 3844334238, ISBN-13: 978-3844334234 (doktorluk tezi ve mekalelerden derlemeler), 156 pp., 2011

C2. Sh. Maharramov, Mathematics 1 (Hendese), math. (with Tayyib Oral ve.b), Universiteye Hazırlık Soru Bankası, "Araz kursları" publishing 2002 (Zirve; Çağ öğretim), Baku (Azerice)

Other Publications:

Optimality Conditions for One Class Discrete System, Thesis Summary, **Institute of Cybernetics Publish. , preprint**, 20 pages, 2003, Baku (in Russian)

