

CURRICULUM VITAE

Dr. VALERY GLIZER, Full Professor

April 2019

WORK ADDRESS: Ort Braude College of Engineering, Department of Applied Mathematics
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ACADEMIC DEGREES

- 2019** **Full Professor**
Council for Higher Education, Ministry of Education, State of Israel
- 2007** **Associate Professor**
Council for Higher Education, Ministry of Education, State of Israel
- 1986** **Docent** of the Higher Mathematics Department
Higher Certifying Commission of the USSR Council of Ministers
Moscow, USSR
- 1980** **Ph.D.** (Physics and Mathematics)
Moscow State University, Moscow, Russia, USSR
Dissertation: Asymptotic methods of solution of some singularly
perturbed problems of mathematical theory of optimal control
- 1972** **M.Sc.** (Mathematics)
Dnepropetrovsk State University, Dnepropetrovsk, Ukraine, USSR
Dissertation: Asymptotic analysis and solution of nonlinear differential
equation describing the dynamics of an electrical-mechanical system

ACADEMIC POSITIONS

- 2019 - present Full Professor
(Mar.) ORT Braude College of Engineering, Department of Mathematics
 Karmiel, Israel
- 2007 – 2019 Associate Professor
(Dec.) (Mar.) ORT Braude College of Engineering, Department of Mathematics
 Karmiel, Israel
- 2008 – 2010 Senior Research Fellow (part time position)
(Feb.) (Sep.) Technion - Israel Institute of Technology, Faculty of Aerospace Engineering
 Haifa, Israel
- 2007 - 2007 Senior Lecturer
(Oct.) (Dec.) ORT Braude College of Engineering, Department of Mathematics
 Karmiel, Israel
- 2005 - 2007 Adjunct Lecturer
 ORT Braude College of Engineering, Department of Mathematics
 Karmiel, Israel
- 1999 - 2007 Senior Research Fellow
 Technion - Israel Institute of Technology, Faculty of Aerospace Engineering
 Haifa, Israel
- 2001 – 2002 Adjunct Lecturer
 Technion - Israel Institute of Technology, Faculty of Mathematics
 Haifa, Israel

1997 - 1999 Senior Research Fellow
Technion - Israel Institute of Technology
Department of Chemical Engineering, Haifa, Israel

1996 - 1997 Senior Research Fellow

1995 (Jan.-Apr.) Technion - Israel Institute of Technology, Faculty of Aerospace Engineering
Haifa, Israel

1990 - 1993 Associate Professor
Mining and Metallurgical Institute, Department of the Higher Mathematics
Kommunarsk, Ukraine, USSR

1984 - 1990 Senior Lecturer
Mining and Metallurgical Institute, Department of the Higher Mathematics
Kommunarsk, Ukraine, USSR

1981 - 1984 Instructor
Siberian Technological Institute, Department of Optimization of
Technological Systems
Krasnoyarsk, Russia, USSR

SCIENTIFIC EXPERIENCE

Theory:

Time delay systems
Hybrid systems
Optimal control
Robust control
Differential games
Singular perturbations
Asymptotic methods
Generalized functions

Areas of applications:

Aerospace engineering
Industrial engineering and management
Fluid mechanics
Electrical engineering
Laser physics
Economics.

TEACHING EXPERIENCE

ORT BRAUDE COLLEGE OF ENGINEERING

Graduate Courses:

Advanced Numerical Analysis for Software Engineering Major (New Course)

Undergraduate Courses:

Algebra
Calculus II
Differential Equations (Ordinary and Partial)
Fourier Series and Integral Transforms
Introduction to Optimization for Applied Mathematics Major (New Course)
Linear Optimization for Applied Mathematics Major (New Course)
Mathematical Modeling for Applied Mathematics Major (New Course)
Nonlinear Optimization for Applied Mathematics Major (New Course)

Numerical Analysis for Applied Mathematics Major (New Course)
Ordinary Differential Equations

OTHER UNIVERSITIES

Graduate Courses:

Mining and Metallurgical Institute, Kommunarsk:

Qualitative theory of systems governed by differential equations

Siberian Technological Institute, Krasnoyarsk:

Optimization theory and applications

Undergraduate Courses:

Technion-Israel Institute of Technology, Haifa:

Calculus I

Calculus II

Mining and Metallurgical Institute, Kommunarsk:

Analytical geometry

Calculus I

Calculus II

Equations of mathematical physics

Integral transforms and operational calculus

Linear algebra

Ordinary differential equations

Probability theory

Theory of functions of a complex variable

Siberian Technological Institute, Krasnoyarsk:

Programming for computers

PROFESSIONAL ACTIVITIES

Editorial Activity:

Guest Editor:

1) Special Issue "Singularly Perturbed Problems: Asymptotic Analysis and Approximate Solution" of the journal *Axioms*

Associate Editor for the Journals:

2) *International Journal of Pure Mathematics* (2013 – present)

1) *International Journal of Mathematics and Computers in Simulation* (2013 – present)

Member of Editorial Board for the Journals:

6) *International Journal of Quality Engineering and Technology* (2017 – present)

5) *Abstract and Applied Analysis* (2012 – present)

4) *Conference Papers in Mathematics* (2012 – 2015)

3) *ISRN Mathematical Analysis* (2010 – 2012)

2) *The Open Automation and Control Systems Journal* (2007 – 2017)

1) *The Open Operational Research Journal* (2007 – 2014)

Chairperson for the Conferences:

12) The 2019 International Conference on Pure Mathematics - Applied Mathematics (*PM-AM 2019*), Majorca Island, Spain, May 3-5, 2019 (Senior Program Chair).

11) The 2018 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2018*), Majorca, Spain, July 14-17, 2018 (Senior Program Chair).

- 10) The 2018 International Conference on Pure Mathematics - Applied Mathematics (*PM-AM 2018*), Prague, Czech Republic, May 19-21, 2018 (Senior Program Chair).
- 9) The 2017 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2017*), Heraklion, Crete, Greece, July 14-17, 2017 (Senior Program Chair).
- 8) The 2017 International Conference on Pure Mathematics – Applied Mathematics (*PM – AM 2017*), Athens, Greece, April 9-11, 2017 (Senior Program Chair).
- 7) The 2016 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2016*), Corfu Island, Greece, July 14-17, 2016 (Senior Program Chair).
- 6) The 2016 International Conference on Pure Mathematics, Craiova, Romania, June 25-27, 2016 (Senior Program Chair).
- 5) The 2015 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2015*), Zakynthos Island, Greece, July 16-20, 2015 (Senior Program Chair).
- 4) The 2015 International Conference on Pure Mathematics – Applied Mathematics (*PM – AM 2015*), Vienna, Austria, March 15-17, 2015 (Senior Program Chair).
- 3) 2nd International Conference on Applied Mathematics and Computational Methods (*AMCM 2014*), Beijing, China, October 12-14, 2014 (Senior Program Chair).
- 2) The 2014 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2014*), Santorini Island, Greece, July 17-19, 2014 (Senior Program Chair).
- 1) The 2014 International Conference on Pure Mathematics – Applied Mathematics (*PM – AM 2014*), Venice, Italy, March 15-17, 2014 (Senior Program Chair).

Member of International Program/Scientific Committee for the Conferences:

- 61) The 2019 International Conference on Pure Mathematics - Applied Mathematics (*PM-AM 2019*), Majorca Island, Spain, May 3-5, 2019 (Program Committee for Pure Mathematics).
- 60) The 2019 International Conference on Applied Mathematics and Computational Methods in Engineering (*AMCME 2019*), Malta, April 6-8, 2019.
- 59) 9th International Conference on Mathematical Models for Engineering Science (*MMES'18*), London, UK, October 26-28, 2018.
- 58) The 2018 International Conference on Topology and Functional Analysis (*TOPO 2018*), Budapest, Hungary, October 6-8, 2017.
- 57) The 2018 International Conference on Differential Equations (*DIFEQU 2018*), Budapest, Hungary, October 6-8, 2018.
- 56) The 2018 International Conference on Abstract and Applied Analysis (*ABAPAN 2018*), Budapest, Hungary, October 6-8, 2018.
- 55) The 2018 International Conference on Mathematical Models and Methods in Applied Sciences (*MMMAS 2018*), Budapest, Hungary, October 6-8, 2018.
- 54) 18th International Conference on Applied Computer Science (*ACS'18*), Dubrovnik, Croatia, September 26-28, 2018.
- 53) The 2018 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2018*), Majorca, Spain, July 14-17, 2018 (Program Committee for Pure Mathematics).
- 52) 20th International Conference on Automatic Control, Modeling and Simulation (*ACMOS'18*), Rome, Italy, May 26-28, 2018.
- 51) The 2018 International Conference on Pure Mathematics - Applied Mathematics (*PM-AM 2018*), Prague, Czech Republic, May 19-21, 2018 (Program Committee for Pure Mathematics).
- 50) The 2018 International Conference on Applied Mathematics and Computational Methods in Engineering (*AMCME 2018*), Venice, Italy, April 28-30, 2018.

- 49) The 8th International Conference on Mathematical Models for Engineering Science (*MMES'17*), London, UK, October 27-29, 2017.
- 48) The 2017 International Conference on Topology and Functional Analysis (*TOPO 2017*), Athens, Greece, October 6-8, 2017.
- 47) The 2017 International Conference on Differential Equations (*DIFEQU 2017*), Athens, Greece, October 6-8, 2017.
- 46) The 2017 International Conference on Abstract and Applied Analysis (*ABAPAN 2017*), Athens, Greece, October 6-8, 2017.
- 45) The 2017 International Conference on Mathematical Models and Methods in Applied Sciences (*MMMAS 2017*), Athens, Greece, October 6-8, 2017.
- 44) 17th International Conference on Applied Computer Science (*ACS'17*), Dubrovnik, Croatia, September 27-29, 2017.
- 43) The 2017 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2017*), Heraklion, Crete, Greece, July 14-17, 2017 (Program Committee for Pure Mathematics).
- 42) The 2017 International Conference on Applied Mathematics and Computational Methods in Engineering (*AMCME 2017*), Prague, Czech Republic, May 20-22, 2017.
- 41) 19th International Conference on Automatic Control, Modelling and Simulation (*ACMOS'17*), Barcelona, Spain, May 10-12, 2017.
- 40) The 2017 International Conference on Pure Mathematics – Applied Mathematics (*PM – AM 2017*), Athens, Greece, April 9-11, 2017 (Program Committee for Pure Mathematics).
- 39) The 36th IASTED International Conference on Modelling, Identification and Control (*MIC 2017*), Innsbruck, Austria, February 20 – 22, 2017.
- 38) The 2016 International Conference on Topology and Functional Analysis (*TOPO 2016*), Rome, Italy, November 5-7, 2016.
- 37) The 2016 International Conference on Differential Equations (*DIFEQU 2016*), Rome, Italy, November 5-7, 2016.
- 36) The 2016 International Conference on Abstract and Applied Analysis (*ABAPAN 2016*), Rome, Italy, November 5-7, 2016.
- 35) The 2016 International Conference on Mathematical Models and Methods in Applied Sciences (*MMMAS 2016*), Rome, Italy, November 5-7, 2016.
- 34) The 7th International Conference on Mathematical Models for Engineering Science (*MMES'16*), Dubrovnik, Croatia, September 28-30, 2016.
- 33) The 2016 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2016*), Corfu Island, Greece, July 14-17, 2016 (Program Committee for Pure Mathematics).
- 32) The 2016 International Conference on Pure Mathematics, Craiova, Romania, June 25-27, 2016.
- 31) The 2016 International Conference on Applied Mathematics and Computational Methods in Engineering, (*AMCME 2016*), Riga, Latvia, May 28-30, 2016.
- 30) The 16th International Conference on Applied Computer Science, (*ACS'16*), Istanbul, Turkey, April 15-17, 2016.
- 29) The 18th International Conference on Automatic Control, Modeling and Simulation (*ACMOS'16*), Venice, Italy, January 29-31, 2016.
- 28) The 2015 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2015*), Zakynthos Island, Greece, July 16-20, 2015 (Program Committee for Pure Mathematics).
- 27) The 2015 International Conference on Applied Mathematics and Computational Methods in Engineering (*AMCME 2015*), Barcelona, Spain, April 7-9, 2015.
- 26) 6th International Conference on Mathematical Models for Engineering Science (*MMES'15*), Michigan State University, East Lansing, MI, USA, September 20-22, 2015.
- 25) The 15th International Conference on Applied Computer Science (*ACS'15*), Konya, Turkey, May 20-22, 2015.

- 24) The 34th IASTED International Conference on Modelling, Identification and Control (*MIC 2015*), Innsbruck, Austria, February 16 – 18, 2015.
- 23) The 17th International Conference on Automatic Control, Modelling & Simulation (*ACMOS'15*), Tenerife, Canary Islands, Spain, January 10-12, 2015.
- 22) The 2014 International Conference on Mathematical Models and Methods in Applied Sciences, Saint Petersburg, Russia, September 23-25, 2014.
- 21) The 2014 International Conference on Pure Mathematics, Applied Mathematics and Computational Methods (*PMAMCM 2014*), Santorini Island, Greece, July 17-19, 2014.
- 20) The 16th International Conference on Automatic Control, Modeling and Simulation (*ACMOS'14*), Brasov, Romania, June 26-28, 2014.
- 19) The 5th International Conference on Mathematical Models for Engineering Science, Brasov, Romania, June 26-28, 2014.
- 18) The 2014 International Conference on Applied Mathematics and Computational Methods in Engineering (*AMCME 2014*), Prague, Czech Republic, April 2-4, 2014.
- 17) The 2014 International Conference on Pure Mathematics – Applied Mathematics (*PM – AM 2014*), Venice, Italy, March 15-17, 2014.
- 16) The 33rd IASTED International Conference on Modeling, Identification and Control (*MIC 2014*), Innsbruck, Austria, February 17 – 19, 2014.
- 15) The 14th WSEAS International Conference on Applied Computer Science (*ACS-14*), Cambridge, USA, January 29-31, 2014.
- 14) The 2nd International Conference on Intelligent Control, Modeling and Systems Engineering (*ICMS'14*), Cambridge, USA, January 29-31, 2014.
- 13) The 3rd Conference on Nanomaterials, Shenzhen, China, January 14 – 16, 2014.
- 12) The 1st WSEAS International Conference on Pure Mathematics, Tenerife, Spain, January 10 – 12, 2014.
- 11) The 15th IASTED International Conference on Control and Applications, Honolulu, Hawaii, USA, August 26 – 28, 2013.
- 10) The 3rd IASTED Asian Conference on Modeling, Identification and Control (*AsiaMIC 2013*), Phuket, Thailand, April 10 – 12, 2013.
- 9) The 32nd IASTED International Conference on Modeling, Identification and Control (*MIC 2013*), Innsbruck, Austria, February 11 – 13, 2013.
- 8) The 14th IASTED International Conference on Control and Applications, Crete, Greece, June 18 – 20, 2012.
- 7) The 31st IASTED International Conference on Modeling, Identification, and Control (*MIC 2011*), Innsbruck, Austria, February 14 – 16, 2011.
- 6) The 13th IASTED International Conference on Control and Applications, Vancouver, British Columbia, Canada, June 1 – 3, 2011.
- 5) The First IASTED Asian Conference on Modeling, Identification and Control (*AsiaMIC 2010*), Bangkok, Thailand, November 24 – 26, 2010.
- 4) The 12th IASTED International Conference on Control and Applications, Banff, Alberta, Canada, July 15 – 17, 2010.
- 3) The IASTED International Conference on Automation, Control, and Information Technology – Control, Diagnostics and Automation, Novosibirsk, Russia, June 15 – 18, 2010.
- 2) The IASTED International Conference on Identification, Control and Applications, Honolulu, Hawaii, August 17 – 19, 2009
- 1) The 11th IASTED International Conference on Control and Applications, Cambridge, United Kingdom, July 13 – 15, 2009

Member of Organizing Committee for the Conferences:

The 4th International Conference on Complex Analysis and Dynamical Systems, Naharia, Israel, May 18-22, 2009

Organizer of the Conference Special Sessions:

"Optimal Control" at the 4th International Conference on Complex Analysis and Dynamical Systems, Naharia, Israel, May 18-22, 2009

Referee for the journals and books:

- 1) Abstract and Applied Analysis
- 2) Advances in Mathematics
- 3) Ain Shams Engineering Journal
- 4) Annals of the International Society of Dynamic Games
- 5) Applied Mathematics and Computation
- 6) Applied Mathematics Letters
- 7) Asian Journal of Control
- 8) Automatica a Journal of IFAC
- 9) Chinese Journal of Mathematics
- 10) Contemporary Mathematics
- 11) Control and Cybernetics
- 12) Dynamics and Control
- 13) Dynamics of Continuous, Discrete and Impulsive Systems, Series B: Applications and Algorithms
- 14) Dynamical Systems and Applications
- 15) IEEE Transactions on Automatic Control
- 16) IEEE Transactions on Systems, Man, and Cybernetics
- 17) IMA Journal of Mathematical Control and Information
- 18) International Game Theory Review
- 19) International Journal of Applied Mathematics and Computer Science
- 20) International Journal of Computer Mathematics
- 21) International Journal of Control
- 22) International Journal of Game Theory
- 23) International Journal of Quality Engineering and Technology
- 24) International Journal of Robust and Nonlinear Control
- 25) International Journal of Systems Science
- 26) ITB Journal of Mathematical and Fundamental Sciences
- 27) ITB Journal of Science
- 28) Journal of Applied Analysis and Computation
- 29) Journal of Computational and Applied Mathematics
- 30) Journal of Dynamical and Control Systems
- 31) Journal of the Franklin Institute
- 32) Journal of Mathematical Analysis and Applications
- 33) Journal of Optimization Theory and Applications
- 34) Mathematics of Control, Signals and Systems
- 35) Mathematical Problems in Engineering
- 36) Nonlinear Analysis
- 37) Nonlinear Analysis: Hybrid Systems
- 38) Optimal Control Applications and Methods
- 39) Optimization
- 40) Pure and Applied Functional Analysis
- 41) SIAM Journal on Control and Optimization
- 42) Telecommunication Systems Journal
- 43) The Scientific World Journal
- 44) Turkish Journal of Mathematics

Referee for the conferences:

- 22) The 15th International Workshop on Variable Structure Systems and Sliding Mode Control, Graz, Austria, 2018.
- 21) The 56th IEEE Conference on Decision and Control, Melbourne, Australia, 2017
- 20) The 55th IEEE Conference on Decision and Control, Las Vegas, USA, 2016
- 19) The 24th Mediterranean Conference on Control and Automation (MED2016), Athens, Greece, 2016
- 18) The 54th IEEE Conference on Decision and Control, Osaka, Japan, 2015
- 17) The European Control Conference, Linz, Austria, 2015
- 16) The 53rd IEEE Conference on Decision and Control, Los Angeles, USA, 2014.
- 15) The 19th IFAC World Congress, Cape Town, South Africa, 2014.
- 14) The European Control Conference, Strasburg, France, 2014.
- 13) The 52nd IEEE Conference on Decision and Control, Firenze, Italy, 2013.
- 12) The European Control Conference, Zurich, Switzerland, 2013.
- 11) The 5th International Conference on High Performance Scientific Computing – Modeling, Simulation and Optimization of Complex Processes, Hanoi, Vietnam, 2012.
- 10) The 51st IEEE Conference on Decision and Control, Maui, HI, USA, 2012
- 9) The 7th Asian Control Conference, Hong Kong, 2009
- 8) The 6th IFAC Symposium on Robust Control Design, Haifa, Israel, 2009
- 7) The European Control Conference, Budapest, Hungary, 2009
- 6) The 47th IEEE Conference on Decision and Control, Cancun, Mexico, 2008
- 5) The 27th American Control Conference, Seattle, Washington, 2008
- 4) The 46th IEEE Conference on Decision and Control, New Orleans, Louisiana, 2007
- 3) The 3rd IFAC Symposium on System, Structure and Control, Iguassu Falls, Brazil, 2007
- 2) The 26th American Control Conference, New York, NY, 2007
- 1) The 17th IMACS World Congress, Paris, France, 2005

Reviewer for the journal Mathematical Reviews in the fields:

optimal control, systems theory, dynamic games, functional-differential equations
103 reviews published

Chairperson and Co-Chairperson of the conference sessions:

- 13) "Game Theory I" at the 2018 American Control Conference, Wisconsin, Milwaukee, USA, June 27-29, 2018 (Chairperson).
- 12) "Game Theory" at the 24th Mediterranean Conference on Control and Automation (MED2016), Athens, Greece, June 21-24, 2016 (Chairperson).
- 11) "Linear Systems" at the 23rd Mediterranean Conference on Control and Automation (MED2015), Torremolinos, Spain, June 16-19, 2015 (Chairperson).
- 10) "Robotics" at 3rd International Conference on Mechanical Engineering and Mechatronics, Prague, Czech Republic, August 14-15, 2014 (Chairperson).
- 9) "Linear Systems" at the 11th IEEE International Conference on Control and Automation, Taichung, Taiwan, June 18-20, 2014 (Chairperson).
- 8) "Robust Control of Linear Systems II" at the 2013 European Control Conference, Zurich, Switzerland, July 17-19, 2013 (Chairperson).
- 7) "Time Delay Systems" at the 4th IFAC Symposium on System, Structure and Control, Ancona, Italy, September 15-17, 2010 (Chairperson).
- 6) "Time Varying and Time Delay Systems" at the 12th IASTED International Conference on Control and Applications, Banff, Alberta, Canada, July 15-17, 2010 (Chairperson).
- 5) "Optimal Control" at the 4th International Conference on Complex Analysis and Dynamical Systems, Naharia, Israel, May 18-22, 2009 (Chairperson).
- 4) "Infinite Horizon Optimal Control, II" at the 7th Portuguese Conference on Automatic Control, Lisbon, Portugal, September 11-13, 2006 (Co-Chairperson).

- 3) "Infinite Dimensional and Distributed Parameter Systems, III" at the 17th International Symposium on Mathematical Theory of Networks and Systems, Kyoto, Japan, July 24-28, 2006 (Co-Chairperson).
- 2) "Stability and Stabilization of Systems" at the 11th IEEE International Conference on Methods and Models in Automation and Robotics, Miedzyzdroje, Poland, August 29 - September 1, 2005 (Chairperson).
- 1) "Time and Multiple Time Scale Systems" at the 17th IMACS World Congress, Paris, France, July 11-15, 2005 (Chairperson).

RECENT CONFERENCE AND SEMINAR TALKS

- 33) "Optimal Time-Sampling Problem in a Statistical Control with a Quadratic Cost Functional: Analytical and Numerical Approaches" at the regular session *Engineering Applications on Intelligent Control Systems and Optimization* of the 15th International Conference on Informatics in Control, Automation and Robotics, Porto, Portugal, July 29-31, 2018.
- 32) "Asymptotic Properties of a Cheap Control Infinite Horizon Nash Differential Game" at the regular session *Game Theory I* of the 2018 American Control Conference, Wisconsin, Milwaukee, USA, June 27-29, 2018.
- 31) "Saddle-Point Equilibrium Sequence in Singular Infinite Horizon Zero-Sum Linear-Quadratic Differential Game with State Delays" at the German-Israeli Research Workshop on Optimization, Haifa, Israel, October 16-19, 2017 (invited talk).
- 30) "Singularly Perturbed Set of Periodic Functional-Differential Equations Arising in Optimal Control Theory" at the 14th International Conference on Mathematical Analysis, Numerical Approximation and Applications of Differential Equations (EQUADIFF 2017), Bratislava, Slovakia, July 24-28, 2017.
- 29) "Singular Infinite Horizon Linear-Quadratic Optimal Control Problem for Systems with Known Disturbances: A Regularization Approach" at the 4th International Conference "New Trends in the Applications of Differential Equations in Sciences" (NTADES 2017), Sofia, Bulgaria, June 18-22, 2017.
- 28) "Cheap Control Robust Tracking: Insight by Solving the Problem with Simple Motions" at the regular session *Game Theory* of the 24th Mediterranean Conference on Control and Automation (MED2016), Athens, Greece, June 21-24, 2016.
- 27) "Nash Equilibrium in a Singular Two-Person Linear-Quadratic Differential Game: a Regularization Approach" at the regular session *Game Theory* of the 24th Mediterranean Conference on Control and Automation (MED2016), Athens, Greece, June 21-24, 2016.
- 26) "Optimal Schedule of a Statistical Process Control with a Nonlinear Expected Loss" at the regular session *Pot Luck II* of the 7th Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA 2015), Prague, Czech Republic, August 25-28, 2015.
- 25) "Solution of a Singular Infinite Horizon Zero-Sum Linear-Quadratic Differential Game: A Regularization Approach" at the regular session *Linear Systems* of the 23rd Mediterranean Conference on Control and Automation (MED2015), Torremolinos, Spain, June 16-19, 2015.
- 24) "Limit Behavior of LQG Control Problem with Small Noise in Observation and Some Aerospace Application" at the regular session *Mechatronics* of 3rd International Conference on Mechanical Engineering and Mechatronics, Prague, Czech Republic, August 14-15, 2014.
- 23) " H_∞ Control of Singularly Perturbed Systems with Multiple Delays" at the regular session *Linear Systems* of the 11th IEEE International Conference on Control and Automation, Taichung, Taiwan, June 18-20, 2014.
- 22) "Optimal Quadratic Control of Linear Time Delay Systems: One Approach to Numerical Solution" at the regular session *Robust Control* of the 11th IEEE International Conference on Control and Automation, Taichung, Taiwan, June 18-20, 2014.
- 21) "Solution of a Singular H_∞ Control Problem for Linear Systems with State Delays" at the regular session *Robust Control of Linear Systems II* of the 2013 European Control Conference, Zurich, Switzerland, July 17-19, 2013.

- 20) "Finite Horizon H_∞ Cheap Control Problem for a Class of Linear Systems with State Delays" at the regular session *Lumped and Distributed Parameters Systems - I* of the 6th International Conference on Integrated Modeling and Analysis in Applied Control and Automation, Vienna, Austria, September 19-21, 2012.
- 19) "Singular Solution of an Infinite Horizon Linear-Quadratic Optimal Control Problem with State Delays" (invited lecture) at the International Research Workshop "Variational and Optimal Control Problems on Unbounded Domains", Haifa, Israel, January 9-12, 2012.
- 18) "Cheap Control Problem for Linear Stochastic Systems with State Delays" (invited lecture) at the minisymposium *Optimal Control and its Applications* of the SIAM Conference on Control and its Applications (CT11), Baltimore, Maryland, USA, July 25-27, 2011.
- 17) "Limit Behavior of a Linear-Quadratic Optimal Control Problem for Singularly Perturbed Systems with Small Delays" at the regular session *Time Delay Systems* of the 4th IFAC Symposium on System, Structure and Control, Ancona, Italy, September 15-17, 2010
- 16) "Asymptotic Solution of a Cheap Control Problem for Systems with Delays" at the regular session *Time Varying and Time Delay Systems* of the 12th IASTED International Conference on Control and Applications, Banff, Alberta, Canada, July 15-17, 2010
- 15) "Solution of a Singular Control Problem with State Delays: A Cheap Control Approach" (invited talk) at the seminar *Nonlinear Analysis and Optimization* (Head Prof. Simeon Reich), Faculty of Mathematics, Technion-Israel Institute of Technology, Haifa, Israel, February 07, 2010
- 14) "Asymptotic Solution of an Optimal Control Problem with Partially Cheap Control for Linear Time Delay Systems" (invited lecture) at the International Workshop "Optimization Theory and Related Topics", Haifa, Israel, January 11-14, 2010
- 13) "Pursuit of an Evader with Hybrid Dynamics" at the regular session *Optimal Control* of the 3rd IFAC Conference on Analysis and Design of Hybrid Systems, Zaragoza, Spain, September 16-18, 2009
- 12) "Solution of a Singular Control Problem with Delays" at the regular session *Optimal Control II* of the 24th IFIP Conference on System Modeling and Optimization, Buenos Aires, Argentina, July 27-31, 2009
- 11) "Euclidean Space Controllability Conditions for a Class of Singularly Perturbed Systems with State Delays" at the regular session *Delay Systems* of the 18th International Symposium on Mathematical Theory of Networks and Systems, Blacksburg, Virginia, USA, July 28-August 1, 2008
- 10) "Asymptotic Solution of a Linear-Quadratic Optimal Control Problem for Singularly Perturbed Systems with Small State Delays" (invited lecture) at the International Conference on Nonlinear Analysis and Optimization, Haifa, Israel, June 18-24, 2008
- 9) "On a Spectrum Analysis of Singularly Perturbed Systems with Small Delays" at the regular session *Stability Analysis* of the 7th IFAC Workshop on Time Delay Systems, Nantes, France, September 17-19, 2007
- 8) "On a Constrained Control Mayer's Problem for Singularly Perturbed Delayed Systems" at the regular session *Modeling and Optimization of ODE Systems* of the 23rd IFIP Conference on System Modeling and Optimization, Cracow, Poland, July 23-27, 2007
- 7) " L^2 -Stabilizability Conditions for a Class of Singularly Perturbed Delayed Systems" at the regular session *Control Theory and Intelligent Control Methods* of the 9th International IASTED Conference on Control and Applications, Montreal, Quebec, Canada, May 30 - June 1, 2007
- 6) "An Infinite Horizon Cheap Control of Systems with State Delays" at the invited session *Infinite Horizon Optimal Control, I* of the 7th Portuguese Conference on Automatic Control, Lisbon, Portugal, September 11-13, 2006
- 5) "On First-Order Controllability Conditions for a Class of Singularly Perturbed Systems with Delays" at the regular session *Infinite Dimensional and Distributed Parameter Systems, III* of the 17th International Symposium on Mathematical Theory of Networks and Systems, Kyoto, Japan, July 24-28, 2006

- 4) "Asymptotic Analysis of a Linear-Quadratic Optimal Control Problem for Singularly Perturbed Systems with Small Delays" (invited talk) at the seminar *Nonlinear Analysis and Optimization* (Head Prof. Simeon Reich), Faculty of Mathematics, Technion-Israel Institute of Technology, Haifa, Israel, February 14, 2006
- 3) "Asymptotic Solution of an Infinite Horizon Linear-Quadratic Optimal Control Problem for Singularly Perturbed Systems with Multiple Small State Delays" at the invited session *Optimization of Infinite Dimensional Systems, I* of the 11th IEEE International Conference on Methods and Models in Automation and Robotics, Miedzydroje, Poland, August 29 - September 1, 2005
- 2) "Cheap Control Problem of Linear Systems with Delays: A Singular Perturbation Approach" at the regular session *Control and Optimization, III* of the 22nd IFIP Conference on System Modeling and Optimization, Turin, Italy, July 18-22, 2005
- 1) "Singularly Perturbed Linear Controlled Systems with Small Delays: An Overview of Some Recent Results" at the invited session *Time and Multiple Time Scale Systems* of the 17th IMACS World Congress, Paris, France, July 11-15, 2005

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Member of the International Society of Dynamic Games (since June 2007)

MEMBERSHIP IN ACADEMIC COUNCILS AND COMMITTEES

- 2) Member of the Academic Committee of the Galilee Research Center for Applied Mathematics of the Ort Braude College (2010-2018)
- 1) Member of the Academic Council of the Ort Braude College (since March 2008)

SCIENTIFIC PUBLICATIONS

1 Authored Scientific Book
94 Refereed Papers in Journals
3 Accepted Journals Papers
2 Submitted Journals Papers
16 Papers/Chapters in Books
 Accepted Papers/Chapters in Books
 Submitted Papers/Chapters in Books
64 Refereed Conferences Papers
2 Accepted Conference Papers
1 Submitted Conference Papers
23 Conferences Abstracts
21 Research Reports
Total 227 Works

APPEARANCE OF SCIENTIFIC PUBLICATIONS IN SCIENTIFIC DATABASES

SCOPUS: 109 publications are included
ResearchGate: 112 publications are included
WEB OF SCIENCE: 126 publications are included
GOOGLE SCHOLAR: 154 publications are included

CITATION OF SCIENTIFIC PUBLICATIONS

According to SCOPUS: all citations – 820 citations in 359 documents, h-index = 18;
since 2014 – 400 citations in 155 documents
According to ResearchGate: all citations – 902, all reads – 1737

According to WEB OF SCIENCE: all citations – 690, h-index = 14

According to GOOGLE SCHOLAR: all citations – 1233, h-index = 21, i10-index = 44;

since 2014 – 527 citations, h-index = 11, i10-index = 14

AWARDS

- 12) Ort Braude College Award for Excellence in Research (2018)
- 11) Ort Braude College Award for Excellence in Research (2017)
- 10) Ort Braude College Award for Excellence in Research (2016)
- 9) Ort Braude College Award for Excellence in Research (2015)
- 8) Ort Braude College Award for Excellence in Research (2014)
- 7) Ort Braude College Award for Excellence in Research (2013)
- 6) Ort Braude College Award "The Excellent Academic Staff Member" (2012)
- 5) Ort Braude College Award for Excellence in Research (2012)
- 4) Best Paper Award of The 2011 International Conference of Applied and Engineering Mathematics of The World Congress of Engineering (WCE 2011) for the paper:
V. Glizer, V. Turetsky, J. Shinar, Distribution of Terminal Cost Functional in Discrete-Time Controlled System with Noise-Corrupted State Information. *Proceedings of the World Congress of Engineering (WCE 2011), Vol. 1, pp. 296-300, London, U.K., 2011*
- 3) Ort Braude College Award for Excellence in Research (2011)
- 2) Ort Braude College Award for Excellence in Research (2010)
- 1) Ort Braude College Award for Excellence in Research (2009)

GRADUATE AND UNDERGRADUATE STUDENTS

Oleg Kelis, PhD student, Department of Mathematics, Haifa University

Thesis "Solution of Some Singular Control Problems: Regularization and Singular Perturbation Techniques" (August 2014 – February 2019, Co-supervision with Prof. V. Rovenski)

Yuri Feigin, MSc in Electrical and Electronic Engineering, Faculty of Engineering, School of Graduate Studies, Department of Electrical Engineering – Systems, Tel Aviv University

Thesis "Exact Slow-Fast Decomposition of Linear Singularly Perturbed Systems with Small Delays" (March 2013 – November 2016, Co-supervision with Prof. E. Fridman)

Yuval Cohen, BSc in Applied Mathematics, Department of Mathematics, ORT Braude College of Engineering

Completion work "Optimal Strategies in a Pursuer-Evader Model" (March 2013 – November 2013)

Haim Cohen, BSc in Applied Mathematics, Department of Mathematics, ORT Braude College of Engineering

Completion work "Asymptotic Expansion of Solution of a Linear Differential Equation in a Neighborhood of a Singular Point in the Pursuer-Evader Model" (March 2011 – October 2011)

Naama Shitrit, BSc in Industrial Engineering and Management, Department of Industrial Engineering and Management, ORT Braude College of Engineering

Completion work "Statistical Process Control (SPC) Rate Optimization" (March 2010 – October 2010, Co-supervision with Prof. E. Bashkansky)

BIOGRAPHY REFERENCES

The biography has been published in:

- 7) The 9th Edition of *2000 Outstanding Intellectuals of the 21st Century*
Melrose Press/International Biographical Centre, England, 2016
- 6) The 37th Edition of *Dictionary of International Biography*
Melrose Press/International Biographical Centre, England, 2015
- 5) The 8th Edition of *2000 Outstanding Intellectuals of the 21st Century*
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- 4) The 7th Edition of *2000 Outstanding Intellectuals of the 21st Century*
Melrose Press/International Biographical Centre, England, 2012
- 3) The 9th Edition of *Who's Who in Science and Engineering*
Marquis Who's Who Publishing, USA, 2007
- 2) The 28th Edition of *Dictionary of International Biography*
Melrose Press/International Biographical Centre, England, 2000
- 1) The 16th Edition of *Who's Who in the World*
Marquis Who's Who Publishing, USA, 1999

LIST OF PUBLICATIONS

Authored Scientific Books:

B1. V. Glizer, V. Turetsky, *Robust Controllability of Linear Systems*, Nova Science Publishers, New York, NY, 2012 (printed hardcover edition), 2011, 2013 (electronic editions).

Refereed Papers in Journals:

- JP94. V. Glizer, Euclidean Space Controllability Conditions for Singularly Perturbed Linear Systems with Multiple State and Control Delays. *Axioms*, Vol. 8(1), Paper No. 36, 2019 (DOI: 10.3390/axioms8010036).
- JP93. V. Glizer, Saddle-Point Equilibrium Sequence in One Class of Singular Infinite Horizon Zero-Sum Linear-Quadratic Differential Games with State Delays. *Optimization: A Journal of Mathematical Programming and Operations Research*, published online on July 26, 2018 (DOI: 10.1080/02331934.2018.1497033).
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- AP3. V. Glizer, Solution of a Zero-Sum Linear-Quadratic Differential Game with State-Dependent Impulse in Dynamics. Accepted for publication in *Applied Analysis and Optimization*, 2019.
- AP2. V. Glizer, V. Turetsky, Optimal Time-Sampling in a Statistical Process Control with a Polynomial Expected Loss. Accepted for publication in "Lecture Notes in Electrical Engineering", 2018.
- AP1. V. Glizer, O. Kelis, Finite-Horizon H_∞ Control Problem with Singular Control Cost. Accepted for publication in "Lecture Notes in Electrical Engineering", 2017.

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- SP2. V. Glizer, Novel Euclidean Space Controllability Conditions of Singularly Perturbed Systems with Delay in Control. Submitted for publication in *Automatica a Journal of IFAC*, 2019.
- SP1. V. Glizer, Uniform Stabilizability of Parameter-Dependent Systems with State and Control Delays by Smooth-Gain Controls. Submitted for publication in *Journal of Optimization Theory and Applications*, 2018.

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