

LIST OF CONFERENCE TALKS AND SEMINAR LECTURES GIVEN BY

Vladimir M. Veliov

1. *On the scientific contributions of Asen L. Dontchev*. Invited talk given (online) at the “Annual Session of IMI, BAS”, Sofia, Dec. 14, 2021.
2. *On the research of Asen L. Dontchev: selected topics*. Invited talk given (online) at WOMBAT, Sydney, Dec. 15, 2021.
3. *A new approach for modelling epidemic dynamics adapted to COVID-19*. Invited talk given at the “Kick off meeting, EPICO Project”, JRC, Ispra, Oct. 14, 2021.
4. *Strong Sub-regularity of Variational Inequalities in Banach Spaces and Applications in Optimal Control*. Invited talk given at “15-th International Workshop on Well-Posedness of Optimization Problems and Related Topics”, Borovets, Bulgaria, June 28 – July 02, 2021.
5. *A new approach for modelling epidemic dynamics adapted to COVID-19*. Invited talk at the conference “Optimal Control of Pandemics and Related Issues”. Oct. 12, 2020.
6. *Approximating open-loop and closed-loop optimal control by model predictive control* Talk given (online) at the “2020 European Control Conference”, Saint Petersburg, Russia, May 12-15, 2020.
7. *Model predictive control and regularity of mappings*. Invited seminar talk at Université des Antilles, Point-a.Pitre, Feb. 20, 2020.
8. *Model predictive control and regularity of mappings*. Invited plenary talk at the International Conference Stability, Control, Differential Games, Ekaterinburg, Sept. 16-20, 2019.
9. *On the optimal control of non-linear control-affine problems*. Invited talk given at Department of Aerospace Engineering, University of Michigan, Ann Arbor, August 29, 2019.
10. *On the optimal control of non-linear control-affine problems*. Talk given at “International Congress on Industrial and Applied Mathematics”, Valencia, July 15-19, 2019.
11. *Regularity and approximations of affine optimal control problems*. Invited talk given at the conference “30th European Conference on Operational Research, Dublin, June 22–26, 2019.
12. *Affine optimal control problems: regularity properties and applications*. Invited talk at Math. Department of Université de Bretagne Occidentale, May 7, 2019.
13. *Metric regularity properties of the optimality mapping for ODE optimal control*. Invited talk given at the conference “Nonsmooth and Variational Analysis, Erwin Schroedinger International Institute, Vienna, January 28 February 1, 2019.
14. *Gradient methods on strongly convex feasible sets and optimal control of affine systems*. Invited talk at EURO 2018, 29th European Conference on Operational Research” Valencia, July 8-11, 2018.

15. *Regularity and Discretization of Affine Optimal Control Problems*. Invited talk at the international conference "Well-Posedness of Optimization Problems and Related Topics", Borovets, August 20-24, 2018.
16. *On Regularity and Discretization of Affine Optimal Control Problems*. Invited talk at "The 7th International Conference on High Performance Scientific Computing", Hanoi, Vietnam, March 19-23, 2018.
17. *Optimal control and the value of information for a stochastic epidemiological SIS-model*. Invited talk at "21st Conference of the International Federation of Operational Research Societies (IFORS 2017)", Quebec City, July 17-21, 2017.
18. *High order discrete approximations to optimal control problems with bang-bang solutions*. Invited talk at "SIAM Conference on Control and its Applications", Pittsburgh, USA, July 10-15, 2017.
19. *Hölder metric sub-regularity and a new discrete approximation of affine optimal control problems*. Invited semi-plenary talk at the conference "New Horizons on Optimal Control", Porto, July 3-5, 2017.
20. *On the regularity of affine optimal control problems*. Invited plenary talk at the conference "Mathematical Control Theory", Porquerolles, (FR), June 27-30, 2017.
21. *Periodic utilization of heterogeneous biological resources*. Invited plenary talk at the International Workshop "Decision Models and Population Management", Paris, Feb. 14-16, 2016.
22. *Can the optimal harvesting of biological resources have periods of recovery?* Invited plenary talk at the conference "EULOG'2016", Vienna, Sept. 14-16, 2016.
23. *On the method of Kantorovich for non-smooth generalized equations*. Invited plenary talk at conference "10th Annual Meeting of the Bulgarian Section of SIAM", Sofia, Bulgaria, December 21-22, 2015.
24. *Bi-metric Hölder regularity and stability of bang-bang optimal control*. Talk given at the conference "Variational Analysis and Applications", Erice, Italy, August 29-Sept. 4, 2015.
25. *On the regularity of two mappings in optimal control*. Invited talk given at the "27th European Conference on Operational Research", Glasgow, July 12-15, 2015.
26. *Periodicity in infinite horizon problems of optimal harvesting*. Invited talk at the "SIAM Conference on Control and Its Applications (CT15)", Paris, France, July 08-10, 2015.
27. *"Periodicity of the optimal harvesting in an age-structured population"*. Lecture given in the Université de Bretagne Occidentale, July 03, 2015
28. *Can the Optimal Fishing be Periodic?* Talk given at the "World Conference on Natural Resource Modeling", RMA Bordeaux, June 29-July 1, 2015.
29. *On the Relaxation of Discretized Differential Inclusions*. Invited talk given at the "10th International Conference on Large Scale Scientific Computations", Sozopol, Bulgaria, June 08-12, 2015.
30. *On a distributed optimal control problem of harvesting: periodicity analysis*. Invited talk given at the "17th British-French-German Conference on Optimization", Londol, England, June 15-17, 2015.

31. *Optimal control on infinite time-horizon: the maximum principle revisited.* Invited plenary talk at conference “New Horizons in Optimal Control”, Cascais, Portugal, September 08–11, 2014.
32. *On the optimal control on infinite horizon.* Invited talk at conference “The 10th Conference on Dynamical Systems, Differential Equations and Applications”, Madrid, Spain, July 07–11, 2014.
33. *Harvesting in an age-structured population.* Invited talk at conference “20th Conference of the International Federation of Operational Research Societies”, Barcelona, Spain, July 14–18, 2014.
34. *Path following for dynamic variational inequalities.* Invited plenary talk at conference “Numerical Methods for Scientific Computations and Advanced Applications”, Bansko, Bulgaria, May 19–22, 2014.
35. *Metric regularity in optimal control.* Seminar lecture given at Univ. di Roma “La Sapienza”, May 06, 2014.
36. *Optimal cyclic utilization of renewable resources.* Talk given at the “Annual Meeting on OR”, Institute of Mathematics and Informatics, Bulgarian Academy of Science, Sofia, Dec. 20, 2013.
37. *Optimal spatially distributed harvesting.* Invited talk given at the workshop “Renewable resources, Sustainability, and Search”, Internationales Wissenschaftsforum (IWR), Heidelberg, Dec. 12–14, 2013.
38. *Metric Regularity and Stability of Optimal Control Problems for Linear Systems.* Invited talk given at the 26th IFIP TC7 Conference on System Modelling and Optimization, Klagenfurt, Sept. 8–13, 2013.
39. *Optimal spatially distributed harvesting.* Talk given at the conference XXVI EURO-INFORMS, Rome, July 1–4, 2013.
40. *The Euler method for linear control systems revisited.* Talk given at the conference *Large-Scale Scientific Computations*, Sozopol, June 3–7, 2013.
41. *Metric regularity, stability and approximations in optimal control.* Invited lecture at the seminar on Operations Research at ETH Zurich, 13.05.2013.
42. *Metric regularity, stability and approximations in optimal control.* Invited lecture at Institute of Mathematics, Faculty Math. and Natural Sciences, TU Berlin, 18.04.2013.
43. *Metric regularity and approximations of bang-bang type optimal control.* Invited lecture given at Université des Antilles et de la Guyane, Point-à-Pitre, 21.02.2013.
44. *Metric regularity, stability and approximations in optimal control.* Invited lecture at at the “7th Annual Meeting of the Bulgarian Section of SIAM”, Sofia, Dec. 19, 20, 2012.
45. *Adaptive Model-Predictive Climate Policies in a multi-country setting.* Invited talk at the workshop “Economic Growth Research within the IIASA Network: an Overview”, Dec. 7, 8, 2012.
46. *Infinite-horizon optimal control: some new developments.* Seminar talk at Faculté des Sciences at Techiques, Université de Bretagne Occidentale, Brest, France, Sept. 25, 2012.

47. *Necessary optimality conditions and approximations for infinite horizon optimal control.* Invited session talk given at the 5-th international conference “High performance scientific computing”, Hanoi, 05–09.03.2012.
48. *Maximum principle for infinite-horizon optimal control problems with dominating discount.* Invited talk given at the workshop “Variational and optimal control problems on unbounded domains” in memory of Arie Leizarowitz, Haifa, 09–12.01.2012.
49. *Metric regularity and stability of affine optimal control problems.* Talk given at ”Annual Meeting on OR”, Institute of Mathematics and Informatics, Bulgarian Academy of Science, Sofia, Dec. 19, 20, 2011.
50. *Maximum principle for infinite-horizon optimal control problems with dominating discount.* Talk given at the “25th IFIP TC7 Conference on System Modeling and Optimization”, Berlin, 12–16.09.2011.
51. *Necessary optimality conditions for improper infinite-horizon control problems.* Talk given at the “International Conference on Operation Research” OR 2011, Zurich, 30.08–02.09.2011.
52. *Distributed optimal control in economics: endogenous technological growth.* Invited talk given at “International Conference on Mathematical Control Theory and Mechanics”, Suzdal, Russia, 1–4.06.2011.
53. *Distributed optimal control models in population dynamics and economics.* Invited lecture at the seminar on Operations Research at the University of Vienna, 27.06.2011.
54. *Distributed Optimal Control in Problems of Endogenous Economic Growth.* Invited lecture at the seminar on Operations Research at ETH Zurich, 30.05.2011.
55. *Distributed models for sustainable growth.* Invited plenary talk given at the international conference “Sustainable growth, technological progress and the environment”, Louvain-la-Neuve, Belgium, May 19-20, 2011.
Economy, model predictive control and the issue of global warming. Talk given at the Seminar on Environmental Economics, Institute for Mathematical Methods in Economics, TU Wien, 03.02.2011.
56. *Optimization of a class distributed systems on a controlled domain.* Talk given at ”Annual Meeting on OR”, Institute of Mathematics and Informatics, Bulgarian Academy of Science, Sofia, Dec. 21, 22, 2010.
57. *Distributed dynamic optimization on a controlled domain.* Invited talk given at the “5th Annual Meeting of the Bulgarian Section of SIAM”, Sofia, Dec. 20, 21, 2010.
58. *Optimization of a Class of Distributed Systems on a Controlled Domain.* Talk given at the conference “Advances in Optimization and related Topics”, Barcelona, 29.11–03.12.2010.
59. *Distributed optimal control models in population dynamics and economics.* Invited seminar lecture. University of Bayreuth, 11.11.2010.
60. *Distributed dynamic optimization on a controllable domain.* Talk given at the seminar dedicated to the 70-th anniversary of Gustav Feichtinger, Vienna, 22.10 2010.
61. *Global warming and economic behaviour.* Talk given at “Seventh International Conference on Numerical Methods and Applications”, August 20 – 24, 2010, Borovets, Bulgaria.

62. *High-Order Approximations in Optimal Control*. Invited talk at “24-th European Conference on Operational Research”, Lisbon, July 11–14, 2010.
63. *Discrete Approximations of Affine Control/Tychastic Systems*. Keynote talk at “Fifth Conference on Finite Difference Methods: Theory and Applications”, Lozenetz, Bulgaria, June 28 – July 2, 2010.
64. *Economy, model predictive control and the issue of global warming*. Talk given at “11th Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics”, Amsterdam, May 31 – June 2, 2010.
65. *Approximation problems for differential multi-systems*. Invited talk given at “4nd Annual Meeting of the Bulgarian Section of SIAM”, Sofia, Dec. 20,21, 2009.
66. *Heterogeneous control systems: a brief review and an application in epidemiology*. Invited seminar talk at University of Perm, September 28, 2009.
67. *Approximations of control systems: error analysis*. Invited talk given given at the International Conference “Actual Problems of Stability and Control Theory” (APSCCT’2009), Ekaterinburg, September 21–26, 2009.
68. *High-order approximations to multi-input non-commutative control systems*. Talk given at the conference *Large-Scale Scientific Computations*, Sozopol, June 4–8, 2009.
69. *Control of multiple agent systems*. Invited plenary talk delivered at the “Workshop on Optimization and Applications”, Sofia (BG), 17–19.12.2008.
70. *Control of Heterogeneous Systems: Basic Theory and an Application to Management of Biological Resources*. Invited plenary talk delivered at the conference “Sustainable Development: Demographic, Energy and Inter-generational Aspects”, Strasbourg (FR), 28–29.11.2008.
71. *Evolutionary consequences of harvesting: dynamic: optimization approach*. Invited talk delivered at the workshop “Population dynamics, epidemiology and economics”, La Rochelle (FR), 18–19.11.2008.
72. *Capital Growth in an endogenously changing environment* Invited plenary talk delivered at the symposium “Economic growth with natural resources”, IIASA, Laxenburg (AT), 07–08. 11.2008.
73. *Approximations to control systems: error analysis*. Invited talk delivered at the conference “50 Years of Optimal Control”, Bedlewo (PL), 15–19.09.2008.
74. *Dynamic optimization of heterogeneous population and economic systems*. Invited talk at the “International conference on Differential Equations and Topology dedicated to the centennial anniversary of L.S. Pontryagin”, Moscow, 17-22.06.2008.
75. *Dynamic optimization of heterogeneous systems*. Invited lecture at the workshop on “Management of Natural Resources and Dynamic Optimization”, Girona (ES), 30–31.05.2008.
76. *Dynamic optimization of heterogeneous systems*. Invited lecture at the Faculty of Mathematics and Geoinformation, Vienna University of Technology, 21.05.2008.

77. *Some problems and new results for discrete approximations of control systems.* Invited lecture at the workshop on “Numerical Discretization Methods for Differential Inclusions and Applications to Robust Optimal Control Problems” held at the Hausdorff Research Institute for Mathematics in Bonn (Germany), 27–29.03.2008.
78. *On the Approximation of Set-Valued Integrals and Equations.* Invited lecture given at the Institute Mathematics, Universit des Antilles et de la Guyane, Guadeloupe, 24.01.2008.
79. *On the numerical integration of systems with deterministic uncertainties.* Invited talk at the Annual Workshop of the Bulgaria Section of SIAM, Sofia, 20-21.12.07.
80. *Heterogeneous Control Systems: General Theory and an Application to Human Capital Formation.* Invited lecture given at the Institute of Economics, Bilkent University, Ankara, 24.09.07.
81. *Numerical Optimal Control of Size-Structured Systems.* Talk given at ICNAAM’07, Corfu, Greece, 18.09.07.
82. *Optimal Control of Continuous Heterogeneous Systems: Numerical Methods.* Invited talk at the Institute for Parallel Processing, BIS, Sofia, within EC Grant BIS 21+ - Bulgarian IST Center of Competence, 12.09.07.
83. *Optimal Control of Continuous Heterogeneous Systems: The basic theory and fields of applications.* Invited talk at the Institute for Parallel Processing, BIS, Sofia, within EC Grant BIS 21+ - Bulgarian IST Center of Competence, 11.09.07.
84. *Trading with Emission Permits: Modeling and Preliminary Results.* Talk presented at the International Conference “60 years Institute of Mathematics and Informatics”, Bulg. Acad. of Sci., Sofia, July 6–8, 2006.
85. *Keeping a learned society young: an optimization approach.* Talk presented at the “Annual Meeting on Operations Research, IMI, BAS”, Sofia, 28 December, 2006.
86. *Keeping a learned society young: an optimization approach.* Invited talk given at the workshop ”Age Dynamics of Learned Societies”, Vienna, 28–29 November, 2006.
87. *Viable Control of the Air Quality in Case of Accidental Pollution.* Invited talk given at “Advanced Research Workshop: Scientific Support for the Decision Making in the Security Sector”. Velingrad, Bulgaria, October 21-25, 2006.
88. *Present effects of future technological progress: selected results and the mathematics behind.* Talk given at the International Conference “Pioneers of Bulgarian mathematics”, Sofia, July 8–10, 2006.
89. *Age-structured control systems in economics: effects of technological progress on financially constrained investments.* Invited lecture given at the Institute of Economics, Bilkent University, Ankara, March 07, 2006.
90. *Sub-Optimal Control in Presence of Unobservable Disturbances.* Talk given at the Institute of Mathematics and Informatics, Bulgarian Academy of Science, Sofia, December 27, 2005.
91. *Sub-Optimal Control in Presence of Unobservable Disturbances.* Talk given at CDC-ECC’05, Seville, December 12–15, 2005.

92. *On the Effect of Heterogeneity on Dynamics of Epidemic Diseases*. Invited lecture given at the Institute of Mathematics and Informatics, Bulgarian Academy of Science, Sofia, September 13, 2005.
93. *Approximations with Error Estimates for Optimal Control Problems for Linear Systems*. Talk given at the conference *Large-Scale Scientific Computations*, Sozopol, June 6–10, 2005.
94. *On the theory of time-discretization of control/uncertain systems*. Invited talk given at IWR, University of Heidelberg, May 03, 2005.
95. *On the theoretical background of the numerical analysis of control systems*. Invited lecture given at the Institute of Mathematics and Informatics, Bulgarian Academy of Science, Sofia, December 17, 2004.
96. *Age-structured control systems: theory and applications in economics*. Invited lecture given at IRES/CORE, Université Catholique de Louvine, Louvine-la-Neuve, November 10, 2004.
97. *Error analysis of discrete approximations to control systems*. Invited lecture given at the Department of Mathematics, National Technical University of Athens, Athens, Greece, October 04, 2004.
98. *On Some Approximation Problems Related to Time-Discretizations of Control Systems*, Invited talk given at the workshop on *Optimal Control For Ordinary Differential Equations*, Banach Center, Warsaw, August 30 – September 3, 2004.
99. *Relaxation of Discrete-Time Control Systems*. Invited lecture given at the Institute of Mathematics and informatics, Bulgarian Academy of Science, Sofia, August 3, 2004.
100. *Optimal control of structured systems*. Invited talk given at the Conference "Set-Valued Analysis, Control, Viability and Applications", Roscoff, France, June 21–25, 2004.
101. *Heterogeneous Control Systems: Theory and Applications*. Invited talk given at the workshop on "Dynamical Systems and Control", Haifa, Israel, June 20-22, 2004.
102. *Dynamic Optimization of Heterogeneous Systems*. Invited talk given at the IIASA workshop "Control and Optimization of Uncertain Dynamic Systems", Laxenburg, Austria, May 27–28, 2004.
103. *Optimal emission control in air pollution problems*. Invited talk given at the NATO Advanced Research Workshop "Advances in Air Pollution Modelling for Environmental Security", Borovets, Bulgaria, May 9–12, 2004.
104. *Dynamic Optimization in Population Economics*. Invited lecture given at the Department of Quantitative Methods in Economics and Management, University of Las Palmas de Gran Canaria, March 19, 2004.
105. *Age-specific policies in population economics*. Invited lecture given at *Privatissimum Wirtschaftstheorie* WS 2003/2004, Institute of Economics, Vienna University of Technology, January 12, 2004.
106. *Vintage Models of Capital Accumulation: Effects of Technological Progress, Market Power and Environmental Tax*. Invited lecture given at Università di Roma La Sapienza, Roma, November 26, 2003.

107. *Heterogeneous Control Systems: a General Perspective and Applications in Population Dynamics and Economics*. Invited talk given at the International Workshop on Age-Structured Models in Population Dynamics and Economics. Vienna, Oct. 27,28, 2003.
108. *Critical points in optimal control*. Talk given at the Congress of the Mathematical Society of South-Eastern Europe, Borovets, Bulgaria, September 15–21, 2003.
109. *Numerical Optimization of Heterogeneous Control Systems*. Talk given at the 4th International Conference on “Large-Scale Scientific Computations”, Sozopol, June 4–8, 2003.
110. *Environmental Policy, the Porter Hypothesis and the Composition of Capital*. Invited talk delivered at the workshop on “Control of Distributed Systems and Environmental Applications”, International Institute for Applied Systems Analysis Laxenburg, Austria, May 26–27, 2003.
111. *On the Role of Heterogeneity in Problems of Control of Infectious Diseases*. Talk given at the “Eighth Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics: Theory and Applications in Economics and OR/MS”, Vienna , May 14–16, 2003.
112. *A Remark About Critical States*. Talk given at the “Workshop on Skiba Problems”, TU Vienna, 13.05.2003.
113. *Optimal Control of Uncertain Systems with Incomplete Information for the Disturbances*. Invited talk delivered at the “Louisiana Conference on Mathematical Control Theory”, Louisiana State University, Baton Rouge, April 10–13, 2003.
114. *Critical Points in Optimal Control*. Seminar lecture given at TU Vienna, 04.04.2003.
115. *Optimization of Bundles of Control Systems: Numerical Analysis*. Invited talk given at the First International Conference on Optimization Methods and Software, Hangzhou, Dec., 2002.
116. *Maximum Principle for Age and Duration Structured Systems: a Tool for Optimal Prevention and Treatment of HIV*. OPERATIONS RESEARCH 2002, International Conference on Operations Research Klagenfurt, Sept., 2002.
117. *On the Stabilizability of Control Constrained Linear Systems*. Fifth International Conference on Numerical Methods and Applications, Borovets, Bulgaria, August, 20 - 24, 2002.
118. *On the problem of stabilization with constrained controls*. Lecture delivered at Faculté des Sciences at Techiques, Université de Bretagne Occidentale, Brest, France, May, 2002.
119. *The Trade-off Between Treatment and Prevention of HIV-AIDS: An Age and Duration Structured Optimization Model*. Workshop on Optimal Vaccination Policies and Related Issue, Vienna University of Technology, April, 2002.
120. *An Age-Structured Demo-Economic Model*. Invited talk given at the Workshop on Spatial Aspects of Demography, Max Planck Institute for Demographic Research, Rostock, May 16,17, 2001.
121. *Solution tubes to differential inclusions. Application to differential games with unobservable uncertainties*. Invited talk given at the European Workshop on Well-Posedness in Problems of Optimization, Warsaw, Poland, September 10–14, 2001.
122. *Populations Heterogeneity and Infectibility of Epidemic Diseases*. Seminar talk given at Institute EORST, Vienna University of Technology, Feb., 2001.

123. *Time-discretization of control/uncertain systems*. Invited lecture. Technical University, München, November 20, 2000.
124. *Singular perturbations in control/uncertain systems*. Invited lecture. Technical University, München, November 18, 2000.
125. *A Maximum Principle Age-Structured Optimal Control* Talk given at the Workshop on Age-Structured Optimization Models, Vienna University of Technology, Sept., 2000.
126. *Optimal control on infinite horizon*. Lecture given in the Université de Bretagne Occidentale, June, 2000
127. *Runge-Kutta methods for optimal control systems*. Seminar lecture at Institute for Applied and Numerical Mathematics, Vienna University of Technology, May 19, 1999.
128. *Lipschitz stability of generalized equations. Applications to optimal control*. Lecture given in the Université de Bretagne Occidentale, Jan 28, 1999
129. *A dual numerical approach to deterministic parameter identification*. Lecture delivered at University of Florida, Gainesville, USA, October 25, 1998.
130. *Deterministic parameter identification: a set-enclosure method and some open problems*. Lecture given in the Université de Bretagne Occidentale, 10.04.97
131. *Time-discretization of set-valued dynamics*. Lecture delivered at University of Eastern Michigan, Calamazoo, USA, May, 1998.
132. *Time-discretization of set-valued dynamics*. Lecture delivered at Wayne State University, Detroit, USA, April, 1998.
133. *Deterministic modeling of uncertain dynamic systems*. Lecture delivered at Oakland University, Rochester, USA, April, 1998.
134. *Singular perturbation analysis in differential inclusions* Invited talk at a Banach Center Workshop, Warsaw, September, 1997.
135. *Singular perturbation analysis for nonlinear control systems* Levico Terme, June, 1997.
136. Sozopol, Optim. Conf., 1997.
137. *An introduction to viability theory*. Sozopol, Summer School, 1997.
138. *Numerical methods for control systems*. Sozopol, Summer School, 1997.
139. Brest, Seminar Lecture, April, 1997.
140. *Discretization methods for differential inclusions: an overview*. Lecture given in the Université de Bretagne Occidentale, 10.04.97
141. *Stability-like properties of differential inclusions*. Lecture given in the Institute Henri Poincaré, Paris, 17.03.97.
142. *Singular perturbation analysis in nonlinear optimal control*. Invited talk given at the Second World Congress on Nonlinear Analysis, Athens, July 1996.

143. *On the Euler discretization of non-Lipschitz differential inclusions.* Lecture delivered in the University of Bayreuth, Bayreuth, Germany, May 20, 1996.
144. *Singular perturbations in differential inclusions: convergence analysis.* Invited talk given at the International Workshop on Well-Posedness in Problems of Optimization, Marseill, France, September, 11–15, 1995.
145. *Viability under imperfect measurement.* Invited talk given at the ESF Workshop on Viability Theory, Fontevrault, France, June, 1994.
146. *Discrete approximations to control/uncertain systems.* Invited talk given at the International Conference on Control Theory and Applications, Jerusalem, Israel, October, 1993.
147. *Local averaging in optimal control.* Invited talk given at the Workshop on Well-posedness, Sozopol, Bulgaria, September, 1993.
148. *Discrete approximations in problems of optimal control and systems estimation.* Lecture delivered in the University of Bayreuth, Bayreuth, Germany, September, 1993.
149. *On some issues of discrete approximations connected with the control of uncertain systems.* Seminar talk given at the University of Bayreuth, Bayreuth, Germany, August, 1993.
150. *Guaranteed control in condition of uncertain measurement.* Talk given at the Conference 16-th IFIP Conference on System Modelling and Optimization, Copmiegne, 5–9 July, 1993.
151. *Perturbation techniques for uncertain dynamics and control.* (joint with A. Kurzhanski) Invited talk at the European Control Conference, Groningen, The Netherlands, June, 1993.
152. *Attractiveness and invariance with respect to a differential inclusion.* Invited talk given at the Semester on Differential Inclusions at Banach Center, 18–29 May, 1993
153. *Discretizations of control/uncertain systems.* Lecture delivered at Case Western Reserve University, Cleveland, Ohio March, 1993.
154. *Discrete approximations in optimal control.* Lecture delivered at University of Michigan, Ann Arbor, Michigan, March, 1993.
155. *On the Lipschitz continuity of the value function and its relationship with viability.* Lecture delivered at Louisiana State University, Baton Rouge, Louisiana, March, 1993.
156. *Parametrizations and discrete approximations of differential inclusions.* Lecture delivered at Louisiana State University, Baton Rouge, Louisiana, March, 1993.
157. *Computation of integrals of vector-valued uncertain functions.* Talk given at the Conference on ..., Lafayette, Louisiana, February, 1993.
158. *Selected topics in the guaranteed control of uncertain systems.* Lecture given at the International Institute for Applied Systems Analysis, Laxenburg, Austria, November, 1992.
159. *Selected issues in estimation and control of uncertain systems.* Invited talk given at the Conference on Modeling Techniques for Uncertain Systems, Sopron, Hungary, July, 1992.
160. *Guaranteed control under uncertain state constraints.* Invited talk given at the Conference on Regulation of Nonlinear systems with State Constraints, Les Houches, France, March, 1992.

161. *Parametric and functional uncertainties in dynamical systems: local and global relationship.* Talk given at the Conference SCAN-91: Computer Arithmetic and Enclosure Methods, Oldenburg, Germany, October, 1991.
162. *Approximations of control/uncertain differential systems by means of discrete-time systems.* Invited talk given at the Second Colloquium on Differential Equations, Plovdiv, Bulgaria, August, 1991.
163. *Approximate local linearization of control systems and approximation by discrete-time systems.* Invited talk given at the Conference on Geometric Methods in Nonlinear Optimal Control, Sopron, Hungary, July, 1991.
164. *Geometrical aspects of the problem of approximation of uncertain systems.* Lecture delivered at the Institute of Geometry of the Technical University of Vienna, May, 1991.
165. *Numerical approaches to uncertain dynamical systems: the discretization problem.* Lecture delivered at the Institute of Numerical and Applied Mathematics of the Technical University of Vienna, November, 1990.
166. *Existence of solutions to a class of non-convex valued discontinuous differential inclusions and regulation of uncertain systems.* Invited talk given at the Conference on Set-Valued Analysis and Differential Inclusions, Pamporovo, Bulgaria, September, 1990.
167. *Approximation of integrals of multivalued mappings.* Invited talk given at the Semester on Differential Inclusions of the Banach Center, Warsaw, November, 1989.
168. *Evolution equations in problems of estimation of uncertain systems.* Lecture delivered at the University of Bayreuth, November, 1989.
169. *Discrete approximations to differential inclusions.* Invited talk given at the Conference of Nonlinear synthesis, Sopron, Hungary, July, 1989.
170. *Robust sensor modelling in problems of estimation.* Talk given at the Conference on Control of Uncertain Systems, Bremen, Germany, July, 1989.
171. *On the discretisation of differential inclusions.* Talk given at the II Conference on Numerical Methods and Applications, Sofia, August 22-27, 1989.
172. *On the approximation of the reachable set for state constraint control systems.* Talk given at the Conference on Differential Equations and Applications, Rousse, Bulgaria, August, 1989.
173. *Discrete approximations in the problem of systems estimation.* Invited talk given at the Workshop on Correctness of Extremal Problems, Sofia, February, 1989.
174. *Order reduction in the guaranteed filtering.* Lecture given at the International Institute for Applied Systems Analysis, Laxenburg, Austria, September 1988.
175. *Discrete approximations to differential inclusions.* Paper presented at the Conference on Perspectives of Control Theory, Selpia, Poland, 1988.
176. *On the controllability of discontinuous systems.* Invited talk given at the X Conference on Extremal Problems, Selpia, Poland, 1988.
177. *Controllability of discontinuous systems.* Lecture given at the International Institute for Applied Systems Analysis, Laxenburg, Austria, September, 1988

178. Invited talk given at the IX Conference on Extremal Problems, Selpia, Poland, February, 1987.
179. *On the properties of the reachable set for linear and piece-wise linear control systems.* Invited talk given at the Conference of Adaptation and Stabilization, Sopron, Hungary, July, 1986.
180. *Convergence rate of the solutions of singularly perturbed time-optimal control problems.* Talk given at the Semester on Control Theory of the Banach Center, Warsaw, 1985.
181. Talk given at the III Conference on Differential Equations and Applications, Rousse, Bulgaria, August, 1985.
182. *Continuity of the marginal function of a singularly perturbed optimal control problem.* Invited talk given at the VII Conference on Extremal Problems, Selpia, Poland, February, 1985.
183. Talk given at the International Conference on Nonlinear oscillations, Varna, Bulgaria, September, 1984.
184. *On the behaviour of the solutions of linear autonomous differential inclusions at infinity.* Talk given at the Conference on Mathematical Methods in Operations Research, Sofia, Bulgaria, 24–29 October, 1983.
185. *Regularisation of optimal control problems by differentiable controls.* Invited talk given at the Conference on Optimization, Selin, Germany, 5–10 April, 1983.
186. *Singular perturbations in the linear time-optimal control problem.* Talk given at the II Conference on Differential Equations and Applications, Rousse, Bulgaria, 29 July – 4 August, 1981.
187. *Generalized derivatives of segment functions in \mathbf{R}^n .* Talk given at the X Spring Conference of UBM, Sunny Beach, 6-9 April, 1981.
188. *A time-optimal control problem with absolutely continuous controls.* Talk given at the Conference on Mathematical Methods in Operations Research, Sofia, Bulgaria, 17–22 September, 1980.
189. *Estimations of the influence of the inertianess on the optimal control in linear time-optimal control problems.* Talk given at the IX Spring Conference of UBM, Sunny Beach, 3–6 April, 1980.
190. *Linear time-optimal control problems with constraints on the derivative of the control.* Talk given at the VIII Spring Conference of UBM, Sunny Beach, 3–6 April, 1979.