

List of Publications¹

by Vladimir M. Veliov

Edited Books

163. J. Haunschmied, R. Kovacevic, W. Semmler, V.M. Veliov, Eds. *Dynamic economic problems with regime switches*. Springer series *Dynamic Modeling and Econometrics in Economics and Finance*, vol. 25, 2021.
162. J. Haunschmied, V.M. Veliov, and S. Wrzaczek, Eds. *Dynamic Games in Economics*. Springer series *Dynamic Modeling and Econometrics in Economics and Finance*, vol. 16, 2014.
161. E. Moser, W. Semmler, G. Tragler, and V.M. Veliov, Eds. *Dynamic Optimization in Environmental Economics*. Springer series *Dynamic Modeling and Econometrics in Economics and Finance*, vol. 15, 2014.
160. A.B. Kurzhanski and V.M. Veliov, Eds. *Modeling Techniques for Uncertain Systems*. Progress in Systems and Control Theory, **18**, Birkhäuser, Boston, 1994.
159. A.B. Kurzhanski and V.M. Veliov, Eds., *Set-Valued Analysis and Differential Inclusions*. Progress in Systems and Control Theory, **16**, Birkhäuser, Boston, 1993.

Journal Publications

158. G. Angelov, R. Kovacevic, N.I. Stilianakis, and V.M. Veliov. Optimal vaccination strategies using a distributed epidemiological model applied to COVID-19. Submitted. Available as Research Report 2021-02, ORCOS, TU Wien, 2021.
157. G. Angelov, A. Domnguez Corella, and V.M. Veliov. On the accuracy of the model predictive control method. Submitted. Available as Research Report 2021-05, ORCOS, TU Wien, 2021.
156. N.P. Osmolovskii, V.M. Veliov: On the Strong Metric Subregularity in Mathematical Programming. To appear in *Control and Cybernetics*, 2022. Available as Research Report 2021-04, ORCOS, TU Wien, 2021.

¹Links to many of the papers are given at https://orcos.tuwien.ac.at/research/research_reports

155. R. Kovacevic, N.I. Stilianakis, V. M. Veliov. A Distributed Optimal Control Epidemiological Model Applied to COVID-19 Pandemic. *SIAM J. Contr. Optim.*, to appear, ??(?):??-??, 2022. Available as Research Report 2020-13, ORCOS, TU Wien, 2020.
154. N.P. Osmolovskii and V.N. Veliov. On the strong subregularity of the optimality mapping in mathematical programming and calculus of variations. *Journal of Mathematical Analysis and Applications*, **500**(1), August 1, 2021, doi.org/10.1016/j.jmaa.2021.125077.
153. A.D. Corella, M. Quincampoix, and V.M. Veliov. Strong bi-metric regularity in ane optimal control problems. *Pure and Applied Functional Analysis*, **9**(6):1119–1137, 2021. Available as Research Report 2020-07, ORCOS, TU Wien, 2020.
152. A.L. Dontchev, I.V. Kolmanovsky, D. Liao-McPherson, M.M. Nicotra, and V.M. Veliov. Sensitivity-based warmstarting for constrained model predictive control. *IEEE Transactions on Automatic Control*, **65**(10):4288–4294, 2020. DOI: 10.1109/TAC.2019.2954359.
151. M. Quincampoix, T. Scarinci, V.M. Veliov. On the metric regularity of affine optimal control problems. *Journal of Convex Analysis*, **27**(2), 2020.
150. N.P. Osmolovskii, V.M. Veliov. Metric sub-regularity in optimal control of affine problems with free end state. *ESAIM: Control, Optimisation and Calculus of Variations*, **26**, No 47, 2020. DOI: <https://doi.org/10.1051/cocv/2019046> . Available as *Research Report* 2019-04, ORCOS, TU Wien, 2019.
149. A. L. Dontchev, I. V. Kolmanovsky, M. I. Krastanov, V. M. Veliov, and P. T. Vuong. Approximating optimal finite horizon feedback by model predictive control. Submitted. Available as *Research Report* 2018-07, ORCOS, TU Wien, 2018.
148. E. Augeraud-Veron, R. Boucekkine, V.M. Veliov. Distributed optimal control models in environmental economics: a review. *Mathematical Modelling of Natural Phenomena*, **14**, paper No 106, 2019.
147. A. L. Dontchev, M. I. Krastanov, and V. M. Veliov. On the existence of Lipschitz continuous optimal feedback control. *Vietnam Journal of Mathematic*, **47**(3):579–597, 2019. <https://doi.org/10.1007/s10013-019-00347-5>.
146. A. L. Dontchev, I. V. Kolmanovsky, M. I. Krastanov, M. M. Nicotra, and V. M. Veliov. Lipschitz Stability in Discretized Optimal Control. *SIAM J. Contr. Optim.*, **57**(1):468–489, 2019.

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143. T. Scarinci and V.M. Veliov. Higher-Order Numerical Scheme for Linear Quadratic Problems with Bang-Bang Controls. *Computational Optimization and Applications*, **69**(2):403–422, 2018. DOI 10.1007/s10589-017-9948-z, 2017.
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136. A. Belyakov, A. Davydov, and V.M. Veliov. Optimal cyclic harvesting of a renewable resource. *Proceedings of the USSR Academy of Sciences*, **476**(4):371–374, 2017 (in Russian).
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Papers in Books and Proceedings

41. A.D. Corella and V.M. Veliov: Hlder Regularity in Bang-Bang Type Affine Optimal Control Problems. In *Large-Scale Scientific Computing*, ??, “13th International Conference, LSSC 2021, Sozopol, Bulgaria, June 711, 2021”, 2022. Available as Research Report 2021-03, ORCOS, TU Wien, 2021.
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