

Markos Papageorgiou

PUBLICATIONS

a) BOOKS AND MONOGRAPHS

- /B1/ Papageorgiou, M.: *Ein hierarchisches Konzept zur Regelung des Verkehrsablaufes auf Schnellstraßen. (A hierarchical control system for freeway traffic flow)*. Dr.-Ing. Dissertation, Technische Universität München, Munich, W. Germany, 1981, 190 p.
- /B2/ Papageorgiou, M.: *Applications of Automatic Control Concepts to Traffic Flow Modeling and Control*. Springer-Verlag, Berlin, 1983, 186 p.
- /B3/ Papageorgiou, M.: *Optimierung - Statische, dynamische, stochastische Verfahren für die Anwendung (Optimisation - Applied static, dynamic, stochastic methods)*. R. Oldenbourg-Verlag, Munich, 1991, 608 p.
- /B4/ 2nd Edition (corrected and extended) of /B3/, 1996, 628 p.
- /B5/ Marinaki, M., Papageorgiou, M.: *Optimal Real-time Control of Sewer Networks*. Springer-Verlag, London, 2005, 164 p.
- /B6/ Papageorgiou, M., Leibold, M., Buss, M.: *Optimierung - Statische, dynamische, stochastische Verfahren für die Anwendung (Optimisation - Applied static, dynamic, stochastic methods)*, 3rd Edition (revised and updated). Springer, Berlin, 2012, 519 p.
- /B7/ 4th Edition (corrected) of /B6/, 2015, 540 p.

b) EDITED BOOKS

- /E1/ Papageorgiou, M. (Editor): *Concise Encyclopedia of Traffic and Transportation Systems*. Pergamon Press, Oxford, 1991, 658 p.
- /E2/ Moreno Baños, J.C., Friedrich, B., Papageorgiou, M., Keller, H. (Editors): *Proceedings 1st Meeting of the EURO Working Group on Urban Traffic and Transportation* (Landshut, Germany, 1-3 October 1992), Technical University of Munich, 1993.
- /E3/ Papageorgiou, M., Pouliezios, A. (Editors): *Preprints 8th IFAC/IFIP/IFORS Symposium on Transportation Systems* (Chania, Greece, 16-18 June 1997), 3 volumes, 1490 p. *Proceedings 8th IFAC/IFIP/IFORS Symposium on Transportation Systems*, published in January 1998, Elsevier Science, Oxford, 3 volumes, 1410 p.

c) JOURNAL ARTICLES

- /A1/ Papageorgiou, M., Schmidt, G.: Steuerungs- und Regelungsaufgaben bei der Beeinflussung des Verkehrsablaufes auf Schnellstraßen. (Automatic control concepts applied to traffic flow on highways). *Regelungstechnik* 26 (1978), No.9, pp. 282 - 291.
- /A2/ Papageorgiou, M.: A new approach to time-of-day control based on a dynamic freeway traffic model. *Transportation Research* 14 B (1980), No.4, pp. 349 - 360.
- /A3/ Papageorgiou, M., Schmidt, G.: On the hierarchical solution of non-linear optimal control problems. *Large Scale Systems* 1 (1980), No.4, pp. 265 - 271.
- /A4/ Cremer, M., Papageorgiou, M., Schmidt, G.: Einsatz regelungstechnischer Mittel zur Verbesserung des Verkehrsablaufes auf Schnellstraßen. (Use of technical control equipment for the improvement of traffic operations on highspeed highways). *Forschung, Straßenbau und Straßenverkehrstechnik* 307 (1980), pp. 1 - 44.
- /A5/ Papageorgiou, M.: Comments on "Dynamic multilevel optimization for a class of nonlinear systems". *International Journal of Control* 33 (1981), No.1, pp. 193 - 194.

- /A6/ Cremer, M., Papageorgiou, M.: Parameter identification for a traffic flow model. *Automatica* 17 (1981), No.6, pp. 837 - 843.
- /A7/ Papageorgiou, M, Mayr, R.: Optimal decomposition methods applied to motorway traffic control. *International Journal of Control* 35 (1982), No.2, pp. 269 - 280.
- /A8/ Papageorgiou, M.: Mehrschichtenregelung großer, nichtlinearer dynamischer Systeme. (Multi-layer control of large scale nonlinear dynamic systems). *Regelungstechnik* 30 (1982), No.3, pp. 87 - 96.
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- /A10/ Papageorgiou, M., Heilmann, M.: Ein Programmsystem zur Simulation des Verkehrsablaufes auf Schnellstraßen. (A program package for the simulation of traffic flow on freeways). *Straßenverkehrstechnik* 26 (1982), No.5, pp. 142 - 147.
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- /A12/ Papageorgiou, M., Posch, B., Schmidt, G.: Comparison of macroscopic models for control of freeway traffic. *Transportation Research* 17B (1983), No.2, pp. 107 - 116.
- /A13/ Papageorgiou, M.: Comments on "Hierarchical optimization of nonlinear dynamical systems with nonquadratic objective functions". *IEEE Trans. on Systems, Man, and Cybernetics* SMC-13 (1983), No.3, pp. 235 - 236.
- /A14/ Papageorgiou, M.: A hierarchical control system for freeway traffic. *Transportation Research* 17B (1983), No.3, pp. 251 - 261.
- /A15/ Papageorgiou, M.: Automatic control strategies for combined sewer systems. *ASCE Journal of Environmental Engineering* 109 (1983), No.6, pp. 1385 - 1402.
- /A16/ Papageorgiou, M., Mevius, F.: Eine hierarchische Steuerungsstrategie zur Bewirtschaftung von Kanalnetzen durch Speicherung (A hierarchical control strategy for management of sewerage systems by storage). *gwf-wasser/abwasser* 125 (1984), No.5, pp. 274 - 281.
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