

LIST OF PUBLICATIONS

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Theses:

1. H. X. Phu: *Optimale Bilanzierung der Produktion am Fließband*, Diplomarbeit, Universität Leipzig, 1979.
2. H. X. Phu: *Methoden zur Lösung von Aufgaben der optimalen Steuerung mit engen Zustandsbereichen*, Dissertation, Universität Leipzig, 1983.
3. H. X. Phu: *Methode der Bereichsanalyse und Methode der Orientierungskurven zur Lösung von Aufgaben optimaler Steuerung mit Zustandsbeschränkungen*, Habilitationsschrift, Universität Leipzig, 1987.

Papers:

1. H. X. Phu: *Zur Stetigkeit der Lösung der adjungierten Gleichung bei Aufgaben der optimalen Steuerung mit Zustandsbeschränkungen*, Zeitschrift für Analysis und ihre Anwendungen, Vol. 3, No. 6, pp. 527–539, 1984.
2. H. X. Phu: *Lineare Steuerungsprobleme mit engen Zustandsbereichen*, Optimization, Vol. 16, No. 2, pp. 273–284, 1985.
3. H. X. Phu: *Lösung einer eindimensionalen regulären Aufgaben der optimalen Steuerung mit engen Zustandsbereichen anhand der Methode der Bereichsanalyse*, Optimization, Vol. 16, No. 3, pp. 431–438, 1985.
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5. H. X. Phu: *Zur Lösung des Knickstab-Problems mit beschränkter Ausbiegung*, Zeitschrift für Analysis und ihre Anwendungen, Vol. 6, No. 4, pp. 371–384, 1987.
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8. H. X. Phu: *Ein konstruktives Lösungsverfahren für das Problem des Inpolygons kleinsten Umfangs von J. Steiner*, Optimization, Vol. 18, No. 3, pp. 349–359, 1987.

9. H. X. Phu: *Some Necessary Conditions for Optimality for a Class of Optimal Control Problems Which Are Linear in the Control Variable*, Systems & Control Letters, Vol. 8, No. 3, pp. 261–271, 1987.
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13. H. X. Phu: *On a Linear Optimal Control Problem of a System with Circuit-Free Graph Structure*, International Journal of Control, Vol. 48, No. 5, pp. 1867–1882, 1988.
14. H. X. Phu: *Investigation of Some Inventory Problems with Linear Replenishment Cost by the Method of Region Analysis*, in Optimal Control Theory and Economic Analysis 3, Editor: G. Feichtinger, North-Holland, Amsterdam, pp. 195–221, 1988.
15. H. X. Phu: *Reguläre Aufgaben der optimalen Steuerung mit linearen Zustandsrestriktionen*, Zeitschrift für Analysis und ihre Anwendungen, Vol. 7, No. 5, pp. 431–440, 1988.
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21. N. Dinh and H. X. Phu: *Solving a Class of Regular Optimal Control Problems with State Constraints by the Method of Orienting Curves*, Optimization, Vol. 25, No. 2&3, pp. 231–247, 1992.

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23. N. Dinh and H. X. Phu: *The Method of Orienting Curves and Its Application to an Optimal Control Problem of Hydroelectric Power Plants*, Vietnam Journal of Mathematics, Vol. 20, No. 2, pp. 40–53, 1992.
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73. P. T. An and H. X. Phu: *Finding Globally Shortest Paths through a Sequence of Adjacent Triangles by the Method of Orienting Curves*, Journal of Global Optimization, Vol. 85, No. 4, pp. 1037–1063, 2023.
74. N.-D. Hoang, N. K. Linh, and H. X. Phu: *Octagonal and Hexadecagonal Cut Algorithms for Finding the Convex Hull of Finite Sets with Linear Time Complexity*, Applied Mathematics and Computation, Vol. 481, Paper No. 128931, 19 pp., 2024.
75. N.-D. Hoang, N. K. Linh, and H. X. Phu: *Inner δ -Approximation of the Convex Hull of Finite Sets*, Computational Optimization and Applications, Vol. 91, No. 3, pp. 1373–1413, 2025.

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1. H. G. Bock, E. Kostina, H. X. Phu, and R. Rannacher (Eds): *Modeling, Simulation and Optimization of Complex Processes*, Proceedings of the 2nd International Conference on High Performance Scientific Computing, March 10–14, 2003, Hanoi, Vietnam. Springer, Berlin Heidelberg, 2005.
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