References

1. Accinelli, E., Brida, J.G.: Population growth and the Solow–Swan model. Int. J. Ecol. Econ. Stat. **8**, 54–63 (2007)
2. Ahmad, S., Rao, M.R.M.: Asymptotically periodic solutions of N-competing species problem with time delays. J. Math. Anal. Appl. **186**, 559–571 (1994)
3. Ahmad, S., Stamov, G.Tr.: Almost periodic solutions of N-dimensional impulsive competitive systems. Nonlinear Anal. Real World Appl. **10**, 1846–1853 (2009)
4. Ahmad, S., Stamov, G.Tr.: On almost periodic processes in impulsive competitive systems with delay and impulsive perturbations. Nonlinear Anal. Real World Appl. **10**, 2857–2863 (2009)
5. Ahmad, S., Stamova, I.M.: Asymptotic stability of an N-dimensional impulsive competitive system. Nonlinear Anal. Real World Appl. **8**, 654–663 (2007)
6. Ahmad, S., Stamova, I.M.: Asymptotic stability of competitive systems with delays and impulsive perturbations. J. Math. Anal. Appl. **334**, 686–700 (2007)
7. Ahmad, S., Stamova, I.M.: Global exponential stability for impulsive cellular neural networks with time-varying delays. Nonlinear Anal. **69**, 786–795 (2008)
8. Ahmad, S., Stamova, I.: Stability criteria for impulsive Kolmogorov-type systems of nonautonomous differential equations. Rend. Istit. Mat. Univ. Trieste **44**, 19–32 (2012)
9. Ahmad, S., Stamova, I.M. (eds.): Lotka–Volterra and Related Systems: Recent Developments in Population Dynamics. Walter de Gruyter, Berlin (2013)
10. Akca, H., Alassar, R., Covachev, V., Covacheva, Z., Al-Zahrani, E.: Continuous-time additive Hopfield-type neural networks with impulses. J. Math. Anal. Appl. **290**, 436–451 (2004)
11. Akhmet, M.U., Beklioglu, M., Ergenc, T., Tkachenko, V.I.: An impulsive ratio-dependent predator-prey system with diffusion. Nonlinear Anal. Real World Appl. **7**, 1255–1267 (2006)
12. Allee, W.C.: Animal aggregations. Q. Rev. Biol. **2**, 367–398 (1927)
13. Alzabut, J.O., Nieto, J.J., Stamov, G.Tr.: Existence and exponential stability of positive almost periodic solutions for a model of hematopoiesis. Bound. Value Probl. **2009**, Art. ID 127510, 10 (2009)
14. Alzabut, J.O., Stamov, G.Tr., Sermutlu, E.: On almost periodic solutions for an impulsive delay logarithmic population model. Math. Comput. Model. **51**, 625–631 (2010)
15. Alzabut, J.O., Stamov, G.T., Sermutlu, E.: Positive almost periodic solutions for a delay logarithmic population model. Math. Comput. Model. **53**, 161–167 (2011)
16. Amerio, L.: Soluzioni quasi-periodiche, o limitate, di sistemi differenziali non lineari quasi-periodici, o limitati. Ann. Mat. Pura. Appl. **39**, 97–119 (1955)
17. Andronov, A.A., Vitt, A.A., Haykin, S.E.: Oscillation Theory. Nauka, Moscow (1981, in Russian)

I. Stamova, G. Stamov, *Applied Impulsive Mathematical Models*,
CMS Books in Mathematics, DOI 10.1007/978-3-319-28061-5

18. Anokhin, A.V.: Linear impulsive systems for functional differential equations. Rep. Acad. Sci. SSSR **286**, 1037–1040 (1986, in Russian)
19. Anokhin, A.V., Berezansky, L., Braverman, E.: Exponential stability of linear delay impulsive differential equations. J. Math. Anal. Appl. **193**, 923–941 (1995)
20. Antoci, A., Galeotti, M., Russu, P.: Undesirable economic growth via agents' self protection against environmental degradation. J. Frankl. Inst. **344**, 377–390 (2007)
21. Arbib, M.A.: Brains, Machines and Mathematics. Springer, New York (1987)
22. Arik, S., Tavsanoglu, V.: On the global asymptotic stability of delayed cellular neural networks. IEEE Trans. Circuits Syst. I **47**, 571–574 (2000)
23. Arrow, K.J.: Price-quantity adjustments in multiple markets with rising demands. In: Proceedings of the Symposium on Mathematical Methods in the Social Science, pp. 3–15. Stanford University Press, Palo Arto (1960)
24. Bacchelli, V., Vessella, S.: Lipschitz stability for a stationary 2D inverse problem with unknown polygonal boundary. Inverse Probl. **22**, 1627–1658 (2006)
25. Bachar, M., Arino, O.: Stability of a general linear delay-differential equation with impulses. Dyn. Contin. Discret. Impuls. Syst. Ser. A Math. Anal. **10**, 973–990 (2003)
26. Bainov, D.D., Covachev, V.: Impulsive Differential Equations with a Small Parameter. World Scientific, Singapore (1994)
27. Bainov, D.D., Covachev, V., Stamova, I.M.: Estimates of the solutions of impulsive quasilinear functional differential equations. Ann. Fac. Sci. Toulouse Math. **12**, 149–161 (1991)
28. Bainov, D.D., Covachev, V., Stamova, I.M.: Stability under persistent disturbances of impulsive differential-difference equations of neutral type. J. Math. Anal. Appl. **187**, 790–808 (1994)
29. Bainov, D.D., Dishliev, A.B., Stamov, G.T.: Almost periodic solutions of hyperbolic systems of impulsive differential equations. Kumamoto J. Math. **10**, 1–10 (1997)
30. Bainov, D., Domshlak, Y., Milusheva, S.: Partial averaging for impulsive differential equations with supremum. Georgian Math. J. **3**, 11–26 (1996)
31. Bainov, D.D., Kostadinov, S.I., Myshkis, A.D.: Bounded periodic solutions of differential equations with impulsive effect in a Banach space. Differ. Integral Equ. **1**, 223–230 (1988)
32. Bainov, D.D., Kulev, G.K., Stamova, I.M.: Global stability of the solutions of impulsive differential-difference equations. SUT J. Math. **31**, 55–71 (1995)
33. Bainov, D.D., Myshkis, A.D., Stamov, G.T.: Dichotomies and almost periodicity of the solutions of systems of impulsive differential equations. Dyn. Syst. Appl. **5**, 145–152 (1996)
34. Bainov, D.D., Simeonov, P.S.: Systems with Impulsive Effect: Stability Theory and Applications. Ellis Horwood, Chichester (1989). Copublished: Wiley, New York (1993)
35. Bainov, D.D., Simeonov, P.S.: Integral Inequalities and Applications. Kluwer, Dordrecht (1992)
36. Bainov, D.D., Simeonov, P.S.: Impulsive Differential Equations: Periodic Solutions and Applications. Longman, Harlow (1993)
37. Bainov, D.D., Stamova, I.M.: Uniform asymptotic stability of impulsive differential-difference equations of neutral type by Lyapunov's direct method. J. Comput. Appl. Math. **62**, 359–369 (1995)
38. Bainov, D.D., Stamova, I.M.: Lipschitz stability of linear impulsive differential-difference equations. Note Mat. **2**, 137–142 (1995)
39. Bainov, D.D., Stamova, I.M.: Stability of sets for impulsive differential-difference equations with variable impulsive perturbations. Commun. Appl. Nonlinear Anal. **5**, 69–81 (1998)
40. Bainov, D.D., Stamova, I.M.: Vector Lyapunov functions and conditional stability for systems of impulsive differential-difference equations. ANZIAM J. **42**, 341–353 (2001)
41. Bainov, D.D., Stamova, I.M.: Lipschitz stability of impulsive functional differential equations. ANZIAM J. **42**, 504–515 (2001)
42. Bainov, D.D., Stamova, I.M., Vatsala, A.: Global stability of sets for linear impulsive differential-difference equations with variable impulsive perturbations. Appl. Anal. **62**, 149–160 (1996)

43. Ballinger, G., Liu, X.: Permanence of population growth models with impulsive effects. Math. Comput. Model. **26**, 59–72 (1997)
44. Barbashin, E.A.: Lyapunov Functions. Nauka, Moscow (1970, in Russian)
45. Bautin, N.: The theory of point transformations and dynamical theory of clockworks. In: Qualitative Methods in the Theory of Non-linear Vibrations. Proceedings of the International Symposium on Non-linear Vibrations II, pp. 29–54. Academy of Sciences of Ukraine SSR, Kiev (1963)
46. Belair, J., Mackey, M.C.: Consumer memory and price fluctuations in commodity markets: an integrodifferential model. J. Dyn. Differ. Equ. **1**, 299–525 (1989)
47. Bellassoued, M., Yamamoto, M.: Lipschitz stability in determining density and two Lamé coefficients. J. Math. Anal. Appl. **329**, 1240–1259 (2007)
48. Bellman, R., Cooke, K.L.: Differential-Difference Equations. Academic, New York (1963)
49. Benchohra, M., Henderson, J., Ntouyas, S.: Impulsive Differential Equations and Inclusions. Hindawi, New York (2006)
50. Berezansky, L., Braverman, E.: Explicit conditions of exponential stability for a linear impulsive delay differential equation. J. Math. Anal. Appl. **214**, 439–458 (1997)
51. Besicovitch, A.S.: Almost Periodic Functions. Dover, New York (1954)
52. Bin, L., Hill, D.J.: Optimal robust control for uncertain impulsive systems. Proc. Control Conf. **2007**, 381–385 (2007)
53. Bochner, S.: Beitrage zur Theorie der fastperiodischen Funktionen, I: Funktionen einer Variaben. Math. Ann. **96**, 119–147 (1927, in German)
54. Bochner, S.: Homogeneous systems of differential equations with almost periodic coefficients. J. Lond. Math. Soc. **8**, 283–288 (1933)
55. Bochner, S., von Neumann, J.: Almost periodic functions of groups. II. Trans. Am. Math. Soc. **37**, 21–50 (1935)
56. Bogolyubov, N.N., Mitropolskii, Y.A.: Asymptotic Methods in the Theory of Nonlinear Variations. Nauka, Moscow (1974, in Russian)
57. Bohr, H.: Zur Theorie der Fastperiodischen Funktionen. II: Zusammenhang der fastperiodischen Funktionen mit Funktionen von unendlich vielen Variabeln; gleichmssige Approximation durch trigonometrische Summen. Acta Math. **46**, 101–214 (1925, in German)
58. Bohr, H., Neugebauer, O.: Uber lineare Differentialgleichungen mit konstanten Koeffizienten und fastperiodischer rechter seite. Nachr. Ges. Wiss. Geottingen. Math.-Phys. Klasse. 8–22 (1926, in German)
59. Boucekkine, R., Licandro, O., Christopher, P.: Differential-difference equations in economics: on the numerical solutions of vintage capital growth model. J. Econ. Dyn. Control **21**, 347–362 (1997)
60. Bradley, D.M.: Verhulst's logistic curve. Coll. Math. J. **32**, 94–98 (2001)
61. Branicky, M.S., Borkar, V.S., Mitter, S.K.: A unified framework for hybrid control: model and optimal control theory. IEEE Trans. Autom. Control **43**, 31–45 (2001)
62. Brauer, F., Castillio-Chavez, C.: Mathematical Models in Population Biology and Epidemiology. Springer, New York (2012)
63. Briat, C., Seuret, A.: Convex dwell-time characterizations for uncertain linear impulsive systems. IEEE Trans. Autom. Control **57**, 3241–3246 (2012)
64. Burton, T.A.: Stability and Periodic Solutions of Ordinary and Functional Differential Equations. Academic, New York (1985)
65. Burton, T.A., Zhang, B.: Uniform ultimate boundedness and periodicity in functional differential equations. Tohoku Math. J. **42**, 93–100 (1990)
66. Butler, G., Freedman, H.I., Waltman, P.: Uniformly persistent systems. Proc. Am. Math. Soc. **96**, 425–430 (1986)
67. Caballero, J., Lopez, B., Sadarangani, K.: On monotonic solutions of an integral equation of Volterra type with supremum. J. Math. Anal. Appl. **305**, 304–315 (2005)
68. Calise, A.J., Rysdyk, R.T.: Nonlinear adaptive flight control using neural networks. IEEE Control Syst. **21**, 14–26 (1998)

69. Candenillas, A., Choulli, T., Taksar, M., Zhang, L.: Classical and impulse stochastic control for the optimization of the dividend and risk policies of an insurance firm. Math. Financ. **16**, 181–202 (2006)
70. Cao, J.: Global exponential stability of Hopfield neural networks. Int. J. Syst. Sci. **32**, 233–236 (2001)
71. Cao J.: New results concerning exponential stability and periodic solutions of delayed cellular neural networks. Phys. Lett. A **307**, 136–147 (2003)
72. Cao, J., Chen, A., Huang, X.: Almost periodic attractor of delayed neural networks with variable coefficients. Phys. Lett. A **340**, 104–120 (2005)
73. Cao, J., Wang, J.: Global exponential stability and periodicity of recurrent neural networks with time delays. IEEE Trans. Circuits Syst. I **52**, 920–931 (2005)
74. Chen, A., Cao, J.: Existence and attractivity of almost periodic solutions for cellular neural networks with distributed delays and variable coefficients. Appl. Math. Comput. **134**, 25–140 (2003)
75. Chen, A., Cao, J., Huang, L.: Exponential stability of BAM neural networks with transmission delays. Neurocomputing **57**, 435–454 (2004)
76. Chen, G.: Control and stabilization for the wave equation in a bounded domain. I. SIAM J. Control Optim. **17**, 66–81 (1979)
77. Chen, G., Shen, J.: Boundedness and periodicity for impulsive functional differential equations with applications to impulsive delayed Hopfield neuron networks. Dyn. Contin. Discret. Impuls. Syst. Ser. A **14**, 177–188 (2007)
78. Chen, M.P., Yu, J.S., Shen, J.H.: The persistence of nonoscillatory solutions of delay differential equations under impulsive perturbations. Comput. Math. Appl. **27**, 1–6 (1994)
79. Chen, T.: Global exponential stability of delayed Hopfield neural networks. Neutral Netw. **14**, 977–980 (2001)
80. Chen, Y.: Global stability of neural networks with distributed delays. Neural Netw. **15**, 867–871 (2002)
81. Chetayev, N.G.: The Stability of Motion. Pergamon Press, Oxford (1961)
82. Chua, L.O.: CNN: A Paradigm for Complexity. World Scientific, Singapore (1998)
83. Chua, L.O., Roska, T.: Stability of a class of nonreciprocal cellular neural networks. IEEE Trans. Circuits Syst. I **37**, 1520–1527 (1990)
84. Chua, L.O., Yang, L.: Cellular neural networks: theory. IEEE Trans. Circuits Syst. **35**, 1257–1272 (1988)
85. Chua, L.O., Yang, L.: Cellular neural networks: applications. IEEE Trans. Circuits Syst. **35**, 1273–1290 (1988)
86. Civalleri, P.P., Gilli, M.: A set of stability criteria for delayed cellular neural networks. IEEE Trans. Circuits Syst. I **48**, 494–498 (2001)
87. Cobb, C.W., Douglas, P.H.: A theory of production. Am. Econ. Rev. **18**, 139–165 (1928)
88. Corduneanu, C.: Almost Periodic Functions. Interscience Publishers, New York (1968)
89. Cui, W.: Global stability of a class of neural networks model under dynamical thresholds with delay. J. Biomath. **15**, 420–424 (2000)
90. Cunningham, W.J.: A nonlinear differential-difference equation of growth. Proc. Natl. Acad. Sci. U.S.A. **40**, 708–713 (1954)
91. Dafermos, C.M.: Almost periodic processes and almost periodic solutions of evolution equations. In: Proceedings of International Symposium on Dynamical Systems, University of Florida, Gainesville, 1976, pp. 43–57. Academic, New York (1977)
92. Dai, C., Zhao, M., Chen, L.: Complex dynamic behavior of three-species ecological model with impulse perturbations and seasonal disturbances. Math. Comput. Simul. **84**, 83–97 (2012)
93. Dannan, F., Elaydi, S.: Lipschitz stability of nonlinear systems of differential equations. J. Math. Anal. Appl. **113**, 562–577 (1986)
94. Deardorff, A.: Growth paths in the Solow neoclassical growth model. Q. J. Econ. **84**, 134–139 (1970)

95. Dejong, D., Ingram, B., Whiteman, C.: Keynesian impulses versus Solow residuals: identifying sources of business cycle fluctuation. J. Appl. Econ. **15**, 311–329 (2000)
96. Demidovich, B.P.: Lectures on the Mathematical Theory of Stability. Nauka, Moscow (1967, in Russian)
97. Dohtani, A.: Growth-cycle model of Solow–Swan type. I. J. Econ. Behav. Organ. **76**, 428–444 (2010)
98. Domoshnitsky, A., Drakhlin, M.: Nonoscillation of first order impulse differential equations with delay. J. Math. Anal. Appl. **206**, 254–269 (1997)
99. Dong, L., Chen, L., Sun, L.: Extinction and permanence of the predator-prey system with stocking of prey and harvesting of predator impulsively. Math. Methods Appl. Sci. **29**, 415–425 (2006)
100. D'onofrio, A.: Stability properties of pulse vaccination strategy in SEIR epidemic model. Math. Biosci. **179**, 57–72 (2002)
101. Dou, J.W., Chen, L.S., Li, K.T.: A monotone-iterative method for finding periodic solutions of an impulsive competition system on tumor-normal cell interaction. Discret. Contin. Dyn. Syst. Ser. B **4**, 555–562 (2004)
102. Draviam, T., Coleman, T.F., Li, Y.: Dynamic liquidation under market impact. Quant. Financ. **11**, 69–80 (2011)
103. Driver, R.: Ordinary and Delay Differential Equations. Springer, New York (1977)
104. Emmenegger, G.-F., Stamova, I.M.: Shocks to capital intensity make the Solow equation an impulsive differential equation. Int. J. Differ. Equ. Appl. **6**, 93–110 (2002)
105. Fan, M., Wang, K., Jiang, D.: Existence and global attractivity of positive periodic solutions of periodic species Lotka–Volterra competition systems with several deviating arguments. Math. Biosci. **160**, 47–61 (1999)
106. Fanti, L., Manfredi, P.: The Solow's model with endogenous population: a neoclassical growth cycle model. J. Econ. Dev. **28**, 103–115 (2003)
107. Farahani, A.M., Grove, E.A.: A simple model for price fluctuation in a single commodity. Contemp. Math. **129**, 97–103 (1992)
108. Faria, T.: An asymptotic stability result for scalar delayed population models. Proc. Am. Math. Soc. **132**, 1163–1169 (2003)
109. Ferrara, M.: A note on the Solow economic growth model with Richards population growth law. Appl. Sci. **13**, 36–39 (2011)
110. Fink, A.M.: Almost Periodic Differential Equations. Springer, Berlin (1974)
111. Fink, A.M.: Almost periodic solutions to forced Lienard equations. In: Nonlinear Vibration Problems, No. 15. Proceedings of Sixth International Conference on Nonlinear Oscillations, Poznań, 1972, Part II, pp. 95–105. PWN-Polish Scientific Publishers, Warsaw (1974)
112. Fink, A.M., Seifert, G.: Lyapunov functions and almost periodic solutions for almost periodic systems. J. Differ. Equ. **5**, 307–313 (1969)
113. Fowler, A.C., Mackey, M.C.: Relaxation oscillations in a class of delay differential equations. SIAM J. Appl. Math. **63**, 299–323 (2002)
114. Franco, D., Liz, E., Nieto, J.J., Rogovchenko, Y.V.: A contribution to the study of functional differential equations with impulses. Math. Nachr. **218**, 49–60 (2000)
115. Freedman, H.I.: A perturbed Kolmogrov-type model for the growth problem. Math. Biosci. **12**, 721–732 (1975)
116. Friedman, A.: Partial Differential Equations. Holt, Rinehart and Winston, New York (1969)
117. Frigon, M., O'Regan, D.: Impulsive differential equations with variable times. Nonlinear Anal. **26**, 1913–1922 (1996)
118. Gaines, R., Mawhin, J.: Coincidence Degree and Nonlinear Differential Equations. Springer, Berlin (1977)
119. Gao, S., He, Y., Chen, L.: An epidemic model with pulses for pest management. Appl. Math. Comput. **219**, 4308–4321 (2013)
120. Goh, B.S.: Global stability in two species interactions. J. Math. Biol. **3**, 313–318 (1976)
121. Gopalsamy, K.: Stability and Oscillation in Delay Differential Equations of Population Dynamics. Kluwer, Dodrecht (1992)

122. Gopalsamy, K., He, X.: Delay-independent stability in bidirectional associative memory networks. IEEE Trans. Neural Netw. **5**, 998–1002 (1994)
123. Gopalsamy, K., Leung, I.K.C.: Convergence under dynamical thresholds with delays. IEEE Trans. Neural Netw. **8**, 341–348 (1997)
124. Gopalsamy, K., Weng, P.: Global attractivity and level crossing in model of hematopoiesis. Bull. Inst. Math. Acad. Sinica **22**, 341–360 (1994)
125. Gopalsamy, K., Zhang, B.: On delay differential equations with impulses. J. Math. Anal. Appl. **139**, 110–122 (1989)
126. Guerrini, L.: The Solow–Swan model with a bounded population growth rate. J. Math. Econ. **42**, 14–21 (2006)
127. Guerrini, L.: Global asymptotic stability of an economic growth model: an alternative proof. Int. J. Contemp. Math. Sci. **6**, 1293–1296 (2011)
128. Gurgulla, S.I., Perestyuk, N.A.: On Lyapunov's second method in systems with impulse action. Dokl. Akad. Nauk Ukr. SSR Ser. A **10**, 11–14 (1982, in Russian)
129. Halanay, A., Wexler, D.: Qualitative Theory of Impulse Systems. Mir, Moscow (1971, in Russian)
130. Hale, J.K.: Theory of Functional Differential Equations. Springer, New York (1977)
131. Hale, J.K., Verduyn Lunel, S.M.: Introduction to Functional Differential Equations. Springer, New York (1993)
132. Hardy, G.H., Littlewood, J.E., Polya, G.: Inequalities, 2nd edn. Cambridge University Press, London (1952)
133. Hartman, P.: Ordinary Differential Equations. Wiley, New York (1964)
134. Haykin, S.: Neural Networks: A Comprehensive Foundation. Prentice-Hall, Ehglewood Cliffs (1998)
135. He, M., Chen, F., Li, Z.: Almost periodic solution of an impulsive differential equation model of plankton allelopathy. Nonlinear Anal. Real World Appl. **11**, 2296–2301 (2010)
136. He, X.Z., Zheng, M.: Dynamics of moving average rules in a continuous-time financial market model. J. Econ. Behav. Organ. **76**, 615–634 (2010)
137. Hekimova, M.A., Bainov, D.D.: Almost periodic solutions of singularly perturbed systems of differential equations with impulse effect. Forum Math. **1**, 323–329 (1989)
138. Henry, D.: Geometric Theory of Semilinear Parabolic Equations. Springer, Berlin (1981)
139. Hino, Y.: Stability and existence of almost periodic solutions of some functional differential equations. Tohoku Math. J. **28**, 389–409 (1976)
140. Ho, D.W.C., Sun, J.: Stability of Takagi–Sugeno fuzzy delay systems with impulse. IEEE Trans. Fuzzy Syst. **15**, 784–790 (2007)
141. Hopfield, J.J.: Neurons with graded response have collective computational properties like those of two-stage neurons. Proc. Natl. Acad. Sci. U.S.A. **81**, 3088–3092 (1984)
142. Horn, R.A., Johnson, C.R.: Matrix Analysis. Cambridge University Press, Cambridge (1985)
143. Hsu, Y., Wang, S., Yu, C.: A sequential approximation method using neural networks for engineering design optimization problems. Eng. Optim. **35**, 489–511 (2003)
144. Hu, D., Zhao, H., Zhu, H.: Global dynamics of Hopfield neural networks involving variable delays. Comput. Math. Appl. **42**, 39–45 (2001)
145. Huang, H., Cao, J.: On global asymptotic stability of recurrent neural networks with time-varying delays. Appl. Math. Comput. **142**, 143–154 (2003)
146. Huang, M., Li, J., Song, X., Guo, H.: Modeling impulsive injections of insulin: towards artificial pancreas. SIAM J. Appl. Math. **72**, 1524–1548 (2012)
147. Hui, J., Chen, L.: Periodicity in an impulsive logistic equation with a distributed delay. IMA J. Appl. Math. **70**, 479–487 (2005)
148. Huo, H.F.: Existence of positive periodic solutions of a neutral delay Lotka–Volterra system with impulses. Comput. Math. Appl. **48**, 1833–1846 (2004)
149. Hutchinson, G.F.: Circular causal systems in ecology. Ann. N. Y. Acad. Sci. **50**, 221–246 (1948)
150. Iacobucci, E.M., Trebilcock, M.J., Haider, H.: Economic Shocks: Defining a Role for Government. C. D. Howe Institute, Toronto (2001)

151. Ikeda, M., Ohta, Y., Siljak, D.D.: Parametric stability. In: New Trends in Systems Theory, Genoa, 1990. Progress in Systems and Control Theory, vol. 7, pp. 1–20. Birkhäuser, Boston (1991)
152. Imanuvilov, O., Yamamoto, M.: Global Lipschitz stability in an inverse hyperbolic problem by interior observations. Inverse Probl. **17**, 717–728 (2001)
153. Izyumov, A., Vahaly, J.: New capital accumulation in transition economies: implications for capital-labor and capital-output ratios. Econ. Change Restruct. **39**, 63–83 (2006)
154. Jiao, J., Ye, K., Chen, L.: Dynamical analysis of a five-dimensioned chemostat model with impulsive diffusion and pulse input environmental toxicant. Chaos Solitons Fractals **44**, 17–27 (2011)
155. Jin, Z., Maoan, H., Guihua, L.: The persistence in a Lotka–Volterra competition systems with impulsive perturbations. Chaos Solitons Fractals **24**, 1105–1117 (2005)
156. Joelianto, E., Sutarto, H.Y.: Controlled switching dynamical systems using linear impulsive differential equations. In: Budiyono, A., Riyanto, B., Joelianto, E. (eds.) Intelligent Unmanned Systems: Theory and Applications, vol. 192, pp. 227–244. Springer, Berlin (2009)
157. Jost, C., Ariono, O., Arditi, R.: About deterministic extinction in ratio-dependent predator-prey models. Bull. Math. Biol. **61**, 19–32 (1999)
158. Kapur, J.N.: Mathematical Modelling. Wiley, New York (1988)
159. Kato, J.: Stability problems in functional differential equation with infinite delays. Funkcial. Ekvac. **21**, 63–80 (1978)
160. Khadra, A., Liu, X., Shen, X.: Application of impulsive synchronization to communication security. IEEE Trans. Circuits Syst. I **50**, 341–351 (2003)
161. Khadra, A., Liu, X., Shen, X.: Robust impulsive synchronization and application to communication security. Dyn. Contin. Discret. Impuls. Syst. **10**, 403–416 (2003)
162. Kim, S., Campbell, S., Liu, X.: Stability of a class of linear switching systems with time delay. IEEE Trans. Circuits Syst. I **53**, 384–393 (2006)
163. Kirlinger, G.: Permanence in Lotka–Voltera equations: linked prey-predator systems. Math. Biosci. **82**, 165–191 (1986)
164. Kolmanovskii, V.B., Myshkis, A.D.: Applied Theory of Functional Differential Equations. Kluwer Academic, Dordrecht (1992)
165. Kolmanovskii, V.B., Nosov, V.R.: Stability of Functional-Differential Equations. Academic, London (1986)
166. Kosko, B.: Adaptive bidirectional associative memories. Appl. Opt. **26**, 4947–4960 (1987)
167. Kosko, B.: Bi-directional associative memories. IEEE Trans. Syst. Man Cybern. **18**, 49–60 (1988)
168. Kosko, B.: Neural Networks and Fuzzy Systems – A Dynamical Systems Approach to Machine Intelligence. Prentice-Hall, Englewood Cliffs (1992)
169. Kou, C., Adimy, M., Ducrot, A.: On the dynamics of an impulsive model of hematopoiesis. Math. Model. Nat. Phenom. **4**, 89–112 (2009)
170. Krasnosel'skii, M.A., Burd, V.Sh., Kolesov, Yu.S.: Nonlinear Almost Periodic Oscillations. Wiley, New York (1973)
171. Krasovskii, N.N.: Stability of Motion. Stanford University Press, Stanford (1963)
172. Krishna, S., Vasundhara, J., Satyavani, K.: Boundedness and dichotomies for impulsive equations. J. Math. Anal. Appl. **158**, 352–375 (1991)
173. Kuang, Y.: Delay Differential Equations with Applications in Population Dynamics. Academic, Boston (1993)
174. Küchler, U., Platen, E.: Time delay and noise explaining cyclical fluctuations in prices of commodities. Technical report, 195. Quantitative Finance Research Centre, University of Technology, Sydney (2007)
175. Kulenovic, M.R.S., Ladas, G.: Linearized oscillations in population dynamics. Bull. Math. Biol. **49**, 615–627 (1987)
176. Kulev, G.K., Bainov, D.D.: Strong stability of impulsive systems. Int. J. Theor. Phys. **27**, 745–755 (1988)

177. Kulev, G.K., Bainov, D.D.: Lipschitz stability of impulsive systems of differential equations. Int. J. Theor. Phys. **30**, 737–756 (1991)
178. Lakshmikantham, V., Bainov, D.D., Simeonov, P.S.: Theory of Impulsive Differential Equations. World Scientific, Teaneck (1989)
179. Lakshmikantham, V., Leela, S.: Differential and Integral Inequalities: Theory and Applications. Academic, New York (1969)
180. Lakshmikantham, V., Leela, S., Martynyuk, A.A.: Stability Analysis of Nonlinear Systems. Marcel Dekker, New York (1989)
181. Lakshmikantham, V., Leela, S., Martynyuk, A.A.: Practical Stability Analysis of Nonlinear Systems. World Scientific, Singapore (1990)
182. Lakshmikantham, V., Liu, X.: Stability Analysis in Terms of Two Measures. World Scientific, River Edge (1993)
183. Lakshmikantham, V., Matrosov, V.M., Sivasundaram, S.: Vector Lyapunov Functions and Stability Analysis of Nonlinear Systems. Kluwer, Dordrecht (1991)
184. Lakshmikantham, V., Rao, M.R.M.: Theory of Integro-Differential Equations. Gordon and Breach, Lausanne (1995)
185. Lasota, A., Mackey, M.C.: Probabilistic Properties of Deterministic Systems. Cambridge University Press, London/New York (1985)
186. Levitan, B.M.: Almost Periodic Functions. Gostekhizdat, Moscow (1953, in Russian)
187. Levitan, B.M., Zhikov, V.V.: Almost Periodic Functions and Differential Equations. Cambridge University Press, Cambridge (1983)
188. Li, C., Liao, X., Yang, X., Huang, T.: Impulsive stabilization and synchronization of a class of chaotic delay systems. Chaos **15**, 043103 (2005)
189. Li, J., Yan, J.: Partial permanence and extinction in an N-species nonautonomous Lotka–Volterra competitive system. Comput. Math. Appl. **55**, 76–88 (2008)
190. Li, M., Duan, Y., Zhang, W., Wang, M.: The existence of positive periodic solutions of a class of Lotka–Volterra type impulsive systems with infinitely distributed delay. Comput. Math. Appl. **49**, 1037–1044 (2005)
191. Li, Y.: Global exponential stability of BAM neural networks with delays and impulses. Chaos Solitons Fractals **24**, 279–285 (2005)
192. Li, W.T., Fan, Y.H.: Existence and global attractivity of positive periodic solutions for the impulsive delay Nicholson's blowflies model. J. Comput. Appl. Math. **201**, 55–68 (2007)
193. Li, Z.: Positive almost periodic solutions for neural multi-delay logarithmic population model. Int. J. Math. Comput. Sci. **6**, 177–181 (2012)
194. Li, Z., Wang, T., Chen, L.: Periodic solution of a chemostat model with Beddington–DeAnglis uptake function and impulsive state feedback control. J. Theor. Biol. **261**, 23–32 (2009)
195. Lichtenberg, A.J., Lieberman, M.A.: Regular and Stochastic Motion. Springer, New York/Berlin (1983)
196. Liu, B.: Global stability of a class of non-autonomous delay differential systems. Proc. Am. Math. Soc. **138**, 975–985 (2010)
197. Liu, B., Liu, X., Liao X.: Robust stability of uncertain dynamical systems. J. Math. Anal. Appl. **290**, 519–533 (2004)
198. Liu, H., Yu, J., Zhu, G.: Global behaviour of an age-infection-structured HIV model with impulsive drug-treatment strategy. J. Theor. Biol. **253**, 749–754 (2008)
199. Liu, J.: Bounded and periodic solutions of finite delay evolution equations. Nonlinear Anal. **34**, 101–111 (1998)
200. Liu, X.: Impulsive stabilization and applications to population growth models. Rocky Mt. J. Math. **25**, 381–395 (1995)
201. Liu, X.: Stability of impulsive control systems with time delay. Math. Comput. Model. **39**, 511–519 (2004)
202. Liu, X., Ballinger, G.: Existence and continuability of solutions for differential equations with delays and state-dependent impulses. Nonlinear Anal. **51**, 633–647 (2002)
203. Liu, X., Rohlf, K.: Impulsive control of a Lotka–Volterra system. IMA J. Math. Control Inf. **15**, 269–284 (1998)

204. Liu, X., Takeuchi, Y.: Periodicity and global dynamics of an impulsive delay Lasota–Wazewska model. J. Math. Anal. Appl. **327**, 326–341 (2007)
205. Liu, X., Teo, K.L., Hu, B.: Exponential stability of impulsive high-order Hopfield-type neural networks with time-varying delays. IEEE Trans. Neural Netw. **16**, 1329–1339 (2005)
206. Liu, X., Wang, Q.: The method of Lyapunov functionals and exponential stability of impulsive systems with time delay. Nonlinear Anal. **66**, 1465–1484 (2007)
207. Liu, Y., Ge, W.: Global attractivity in delay "food-limited" models with exponential impulses. J. Math. Anal. Appl. **287**, 200–216 (2003)
208. Liu, Y., Zhao, S.: Controllability analysis of linear time-varying systems with multiple time delays and impulsive effects. Nonlinear Anal. Real World Appl. **13**, 558–568 (2012)
209. Liu, Z.J.: Positive periodic solutions for delay multispecies logarithmic population model. J. Eng. Math. **19**, 11–16 (2002, in Chinese)
210. Lou, X.Y., Cui, B.T.: Global asymptotic stability of delay BAM neural networks with impulses. Chaos Solitons Fractals **29**, 1023–1031 (2006)
211. Luo, J., Yu, J.: Global asymptotic stability of nonautonomous mathematical ecological equations with disturbed deviating arguments. Acta Math. Sinica **41**, 1273–1282 (1998, in Chinese)
212. Luo, Y., Luo, Z.: Existence of positive periodic solutions for neutral multi-delay logarithmic population model. Appl. Math. Comput. **216**, 1310–1315 (2010)
213. Luo, Z., Shen, J.: Stability and boundedness for impulsive functional differential equations with infinite delays. Nonlinear Anal. **46**, 475–493 (2001)
214. Lyapunov, A.M.: General Problem on Stability of Motion. Grostechizdat, Moscow (1950, in Russian)
215. Mackey, M.: Commodity price fluctuations: price dependent delays and nonlinearities as explanatory factors. J. Econ. Theory **48**, 495–509 (1989)
216. Mackey, M.C., Glass, L.: Oscillation and chaos in physiological control system. Science **197**, 287–289 (1977)
217. Malkin, I.G.: Theory of Stability of Motion. Nauka, Moscow (1966, in Russian)
218. Markoff, A.: Stabilitt im Liapounoffschen Sinne und Fastperiodizitt. Math. Z. **36**, 708–738 (1933, in German)
219. Martin, R.H.: Nonlinear Operators and Differential Equations in Banach Spaces. Wiley, New York (1976)
220. Martynyuk, A.: Advances in Stability Theory at the End of the 20th Century. Stability and Control: Theory, Methods and Applications, vol. 13. Taylor and Francis, London (2003)
221. Matsumoto, A., Szidarovszky, F.: Asymptotic behavior of a delay differential neoclassical growth model. Sustainability **5**, 440–455 (2013)
222. May, R.M.: Stability and Complexity in Model Ecosystems. Princeton University Press, Princeton (1973)
223. Maynard-Smith, J.: Models in Ecology. Cambridge University Press, Cambridge (1974)
224. McCulloch, J.R.: A Treatise on the Circumstances Which Determine the Rate of Wage and the Condition of the Labouring Classes. Longman, London (1854)
225. Mil'man, V.D., Myshkis, A.D.: On the stability of motion in the presence of impulses. Sib. Math. J. **1**, 233–237 (1960, in Russian)
226. Mohammad, S.: The impact of oil prices volatility on export earning in Pakistan. Eur. J. Sci. Res. **41**, 543–550 (2010)
227. Mohamad, S., Gopalsamy, K.: A unified treatment for stability preservation in computer simulation of impulsive BAM networks. Comput. Math. Appl. **55**, 2043–2063 (2008)
228. Moreno, D.: Prices, delay and the dynamics of trade. J. Econ. Theory **104**, 304–339 (2002)
229. Muresan, A.S.: On some models of price fluctuations in a market economy. Studia Univ. Babes-Bolyai Math. **38**, 15–19 (1993)
230. Muresan, A.S.: On a functional-differential equation from price theory. In: Proceedings of the IEEE 2009 International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timişoara, pp. 150–156 (2009)

231. Naghshtabrizi, P., Hespanha, J.P., Teel, A.R.: Exponential stability of impulsive systems with application to uncertain sampled-data systems. Syst. Control Lett. **57**, 378–385 (2008)
232. Nerlove, M., Raut K.L.: Growth models with endogenous population: a general framework. In: Rosenzweig, M., Stark, O. (eds.) Handbook of Family and Population Economics, pp. 1117–1174. North-Holland, Amsterdam (1997)
233. Neugebauer, O.: The Exact Sciences in Antiquity. Braun University Press, Providence (1957)
234. Nicholson, A.J.: The balance of animal population. J. Anim. Ecol. **2**, 132–178 (1933)
235. Nieto, J.: Periodic boundary value problems for first-order impulsive ordinary differential equations. Nonlinear Anal. **51**, 1223–1232 (2002)
236. Nieto, J., O'Regan, D.: Variational approach to impulsive differential equations. Nonlinear Anal. Real World Appl. **10**, 680–690 (2009)
237. Nindjin, A.F., Aziz-Alaoui, M.A., Cadivel, M.: Analysis of predator-prey model with modified Leslie–Gower and Holling-type II schemes with time delay. Nonlinear Anal. Real World Appl. **7**, 1104–1118 (2006)
238. Pandit, S.G., Deo, S.G.: Differential Systems Involving Impulses. Springer, Berlin/ Heidelberg/New York (1982)
239. Pazy, A.: Semigroups of Linear Operators and Applications to Partial Differential Equations. Springer, New York (1983)
240. Perestyuk, N.A., Ahmetov, M.U.: On almost periodic solutions of a class of systems with periodic impulsive action. Ukr. Math. J. **36**, 486–490 (1984)
241. Perestyuk, N.A., Chernikova, O.S.: On the stability of integral sets of impulsive differential systems. Math. Notes (Miskolc) **2**, 49–60 (2001)
242. Petela, J.: Average conditions for Kolmogorov systems. Appl. Math. Comput. **215**, 481–494 (2009)
243. Pianka, E.R.: Evolutionary Ecology. Harper and Row, New York (1974)
244. Pielou, E.C.: An Introduction to Mathematical Ecology. Wiley, New York (1969)
245. Popov, E.R.: Automatic Regulation and Control. Nauka, Moscow (1966, in Russian)
246. Qiao, M., Liu, A., Forys, U.: Qualitative analysis of the SICR epidemic model with impulsive vaccinations. Math. Methods Appl. Sci. **36**, 695–706 (2013)
247. Rao M.R.M., Rao, V.S.H.: Stability of impulsively perturbed systems. Bull. Aust. Math. Soc. **16**, 99–110 (1977)
248. Rao, M.R.M., Sathanantham, S., Sivasundaram, S.: Asymptotic behavior of solutions of impulsive integro-differential systems. Appl. Math. Comput. **34**, 195–211 (1989)
249. Razumikhin, B.S.: Stability of Hereditary Systems. Nauka, Moscow (1988, in Russian)
250. Roska, T., Wu, C.W., Balsi, M., Chua, L.O.: Stability and dynamics of delay-type general cellular neural networks. IEEE Trans. Circuits Syst. I **39**, 487–490 (1992)
251. Rouche, H., Habets, P., Laloy, M.: Stability Theory by Lyapunov's Direct Method. Springer, New York (1977)
252. Ruan, S.: Absolute stability, conditional stability and bifurcation in Kolmogorov-type predator-prey systems with discrete delays. Q. Appl. Math. **59**, 159–173 (2001)
253. Rus, A.T., Iancu, C.: A functional-differential model for price fluctuations in a single commodity market. Studia Univ. Babes-Bolyai Math. **2**, 9–14 (1993)
254. Saaty, T.L., Joyce, M.: Thinking with Models: Mathematical Models in the Physical, Biological, and Social Sciences. Pergamon Press, Oxford (1981)
255. Saker, S.H., Agarwal, S.: Oscillation and global attractivity in a periodic Nicholson's blowflies model. Math. Comput. Model. **35**, 719–731 (2002)
256. Samoilenko, A.M., Perestyuk, N.A.: Differential Equations with Impulse Effect. World Scientific, Singapore (1995)
257. Samoilenko, A.M., Trofimchuk, S.: Spaces of piecewise-continuous almost-periodic functions and of almost-periodic sets on the line I. Ukr. Math. J. **43**, 1613–1619 (1991, in Russian)
258. Seifert, G.: Almost periodic solutions for almost periodic systems of ordinary differential equations. J. Differ. Equ. **2**, 305–319 (1966)
259. Seifert, G.: Nonlinear evolution equation with almost periodic time-dependence. SIAM J. Math. Anal. **18**, 387–392 (1987)

260. Shen, J.: Razumikhin techniques in impulsive functional differential equations. Nonlinear Anal. **36**, 119–130 (1999)
261. Siljak, D.D.: Large-Scale Dynamic Systems. Stability and Structure. Dover, New York (2007)
262. Simeonov, P.S., Bainov, D.D.: Estimates for the Cauchy matrix of perturbed linear impulsive equation. Int. J. Math. Math. Sci. **17**, 753–758 (1994)
263. Smith, R.J., Wahl, L.M.: Distinct effects of protease and reverse transcriptase inhibition in an immunological model of HIV-1 infection with impulsive drug effects. Bull. Math. Biol. **66**, 1259–1283 (2004)
264. Smith, S., Escobedo, R., Anderson, M., Caudell, T.: A deployed engineering design retrieval system using neural networks. IEEE Trans. Neural Netw. **8**, 847–851 (1997)
265. So, J.W., Yu, J.S.: Global attractivity and uniform persistence in Nicholson's blowflies. Differ. Equ. Dyn. Syst. **2**, 11–18 (1994)
266. Solow, R.: A contribution to the theory of economic growth. Q. J. Econ. **70**, 65–94 (1956)
267. Song, Q.K., Cao, J.D.: Global exponential stability of bidirectional associative memory neural networks with distributed delays. J. Comput. Appl. Math. **202**, 266–279 (2007)
268. Stamov, G.T.: Almost periodic solutions for systems of impulsive integro-differential equations. Appl. Anal. **64**, 319–327 (1997)
269. Stamov, G.T.: Almost periodic solutions for forced perturbed impulsive differential equations. Appl. Anal. **74**, 45–56 (2000)
270. Stamov, G.T.: Existence of almost periodic solutions for strong stable impulsive differential equations. IMA J. Math. Control Inf. **18**, 153–160 (2001)
271. Stamov, G.T.: Existence of almost periodic solutions for impulsive differential equations with perturbations of the linear part. Nonlinear Stud. **9**, 263–273 (2002)
272. Stamov, G.Tr.: Second method of Lyapunov for existence of almost periodic solutions for impulsive integro-differential equations. Kyungpook Math. J. **43**, 221–231 (2003)
273. Stamov, G.Tr.: Impulsive cellular neural networks and almost periodicity. Proc. Jpn. Acad. Ser. A Math. Sci. **80**, 198–203 (2004)
274. Stamov, G.Tr.: Asymptotic stability in the large of the solutions of almost periodic impulsive differential equations. Note Mat. **24**, 75–83 (2005)
275. Stamov, G.Tr.: Almost periodic solutions of impulsive differential equations with time-varying delay on the PC-space. Nonlinear Stud. **14**, 269–279 (2007)
276. Stamov, G.T.: Almost periodic models in impulsive ecological systems with variable diffusion. J. Appl. Math. Comput. **27**, 243–255 (2008)
277. Stamov, G.Tr.: Existence of almost periodic solutions for impulsive cellular neural networks. Rocky Mt. J. Math. **38**, 1271–1285 (2008)
278. Stamov, G.Tr.: On the existence of almost periodic solutions for impulsive Lasota–Wazewska model. Appl. Math. Lett. **22**, 516–520 (2009)
279. Stamov, G.T: Uncertain impulsive differential-difference equations and stability of moving invariant manifolds. J. Math. Sci. **161**, 320–326 (2009)
280. Stamov, G.Tr.: Almost periodic models of impulsive Hopfield neural networks. J. Math. Kyoto Univ. **49**, 57–67 (2009)
281. Stamov, G.Tr.: Almost periodic processes in ecological systems with impulsive perturbations. Kyungpook Math. J. **49**, 299–312 (2009)
282. Stamov, G.Tr.: Almost periodic solutions in impulsive competitive systems with infinite delays. Publ. Math. Debr. **76**, 89–100 (2010)
283. Stamov, G.Tr.: Almost periodicity and Lyapunov's functions for impulsive functional differential equations with infinite delays. Can. Math. Bull. **53**, 367–377 (2010)
284. Stamov, G.T.: Almost Periodic Solutions of Impulsive Differential Equations. Springer, Berlin (2012)
285. Stamov, G., Akca, H., Stamova, I.: Uncertain dynamical systems: analysis and applications. Abstr. Appl. Anal. **2013**, Article ID 863060 (2013)
286. Stamov, G.Tr., Alzabut, J.O.: Almost periodic solutions for abstract impulsive differential equations. Nonlinear Anal. **72**, 2457–2464 (2010)

287. Stamov, G.Tr., Alzabut, J.O.: Almost periodic solutions of impulsive integro-differential neural networks. Math. Model. Anal. **15**, 505–516 (2010)
288. Stamov, G.Tr., Alzabut, J.O. Almost periodic solutions in the PC-space for uncertain impulsive dynamical systems. Nonlinear Anal. **74**, 4653–4659 (2011)
289. Stamov, G.Tr., Alzabut, J.O., Atanasov, P., Stamov, A.G.: Almost periodic solutions for an impulsive delay model of price fluctuations in commodity markets. Nonlinear Anal. Real World Appl. **12**, 3170–3176 (2011)
290. Stamov, G.Tr., Stamov, A.: On almost periodic processes in uncertain impulsive delay models of price fluctuations in commodity markets. Appl. Math. Comput. **219**, 5376–5383 (2013)
291. Stamov, G.Tr., Stamova, I.M.: Almost periodic solutions for impulsive neural networks with delay. Appl. Math. Model. **31**, 1263–1270 (2007)
292. Stamov, G.T., Stamova, I.M., Alzabut, J.O.: Existence of almost periodic solutions for strongly stable nonlinear impulsive differential-difference equations. Nonlinear Anal. Hybrid Syst. **6**, 818–823 (2012)
293. Stamova, I.M.: Lyapunov method for boundedness of solutions of nonlinear impulsive functional differential equations. Dyn. Syst. Appl. **14**, 561–568 (2005)
294. Stamova, I.M.: Global asymptotic stability of impulse delayed cellular neural networks with dynamical threshold. Nonlinear Stud. **13**, 113–122 (2006)
295. Stamova, I.M.: Vector Lyapunov functions for practical stability of nonlinear impulsive functional differential equations. J. Math. Anal. Appl. **325**, 612–623 (2007)
296. Stamova, I.M.: Parametric stability of impulsive functional differential equations. J. Dyn. Control Syst. **14**, 235–250 (2008)
297. Stamova, I.M.: Boundedness of impulsive functional differential equations with variable impulsive perturbations. Bull. Aust. Math. Soc. **77**, 331–345 (2008)
298. Stamova, I.: Stability Analysis of Impulsive Functional Differential Equations. Walter de Gruyter, Berlin (2009)
299. Stamova, I.M.: Lyapunov method for boundedness of the solutions of impulsive functional differential equations with respect to sets. J. Theor. Appl. Mech. **39**, 3–10 (2009)
300. Stamova, I.M.: Impulsive control for stability of n-species Lotka–Volterra cooperation models with finite delays. Appl. Math. Lett. **23**, 1003–1007 (2010)
301. Stamova, I.M.: Lyapunov–Razumikhin method for impulsive differential equations with "supremum". IMA J. Appl. Math. **76**, 573–581 (2011)
302. Stamova, I.M.: Eventual stability and eventual boundedness for impulsive differential equations with "supremum". Math. Model. Anal. **16**, 304–314 (2011)
303. Stamova, I.M.: Existence and global asymptotic stability of positive periodic solutions of n-species delay impulsive Lotka–Volterra type systems. J. Biol. Dyn. **5**, 619–635 (2011)
304. Stamova, I.M., Akca, H., Stamov, G.T.: Qualitative analysis of dynamic activity patterns in neural networks. J. Appl. Math. **2011**, Article ID 208517 (2011)
305. Stamova, I.M., Eftekhar, J.: Razumikhin technique and stability of impulsive differential-difference equations in terms of two measures. J. Concr. Appl. Math. **2**, 233–248 (2004)
306. Stamova, I.M., Emmenegger, J.F., Stamov, A.G.: Stability analysis of an impulsive Solow–Swan model with endogenous population. Int. J. Pure Appl. Math. **65**, 243–255 (2010)
307. Stamova, I.M., Ilarionov, R.: On global exponential stability of impulsive cellular neural networks with time varying delays. Comput. Math. Appl. **59**, 3508–3515 (2010)
308. Stamova, I.M., Ilarionov, R., Krustev, K.: Asymptotic behavior of equilibriums of a class of impulsive bidirectional associative memory neural networks with time-varying delays. Neural Comput. Appl. **20**, 1111–1116 (2011)
309. Stamova, I.M., Ilarionov, R., Vaneva, R.: Impulsive control for a class of neural networks with bounded and unbounded delays. Appl. Math. Comput. **216**, 285–290 (2010)
310. Stamova, I.M., Stamov, A.G.: Impulsive control on the asymptotic stability of the solutions of a Solow model with endogenous labor growth. J. Frankl. Inst. **349**, 2704–2716 (2012)
311. Stamova, I.M., Stamov, A.G.: On the stability of the solutions of an impulsive Solow model with endogenous population. Econ. Change Restruct. **46**, 203–217 (2013)

312. Stamova, I.M., Stamov, G.T.: Lyapunov–Razumikhin method for impulsive functional differential equations and applications to the population dynamics. J. Comput. Appl. Math. **130**, 163–171 (2001)
313. Stamova, I.M., Stamov, G.T.: On the conditional stability of impulsive functional differential equations. AMRX Appl. Math. Res. Express **2006**, 1–13 (2006)
314. Stamova, I.M., Stamov, G.T.: Lyapunov–Razumikhin method for asymptotic stability of sets for impulsive functional differential equations. Electron. J. Differ. Equ. **2008**(2008), 1–10 (2008)
315. Stamova, I.M., Stamov, G.Tr.: Impulsive control on global asymptotic stability for a class of impulsive bidirectional associative memory neural networks with distributed delays. Math. Comput. Model. **53**, 824–831 (2011)
316. Stamova, I.M., Stamov, G.T.: On the stability of sets for delayed Kolmogorov-type systems. Proc. Am. Math. Soc. **142**, 591–601 (2014)
317. Stamova, I.M., Stamov, G.T.: Lipschitz stability criteria for functional differential systems of fractional order. J. Math. Phys. **54**, 043502 (2013)
318. Stamova, I.M., Stamov, G.Tr., Alzabut, J.O.: Global exponential stability for a class of impulsive BAM neural networks with distributed delays. Appl. Math. Inf. Sci. **7**, 1539–1546 (2013)
319. Stamova, I.M., Stamov, T.: Asymptotic stability of impulsive control neutral-type systems. Int. J. Control **87**, 25–31 (2014)
320. Stamova, I.M., Stamov, T., Li, X.: Global exponential stability of a class of impulsive cellular neural networks with supremums. Int. J. Adapt. Control **28**, 1227–1239 (2014)
321. Stamova, I.M., Stamov, T., Simeonova, N.: Impulsive control on global exponential stability for cellular neural networks with supremums. J. Vib. Control **19**, 483–490 (2013)
322. Stamova, I.M., Stamov, T., Simeonova, N.: Impulsive effects on the global exponential stability of neural network models with supremums. Eur. J. Control **20**, 199–206 (2014)
323. Sternberg, S.: Celestial Mechanics, Part I. W. A. Benjamin, New York (1969)
324. Sun, S.T., Chen, L.S.: Dynamic behaviors of Monod type chemostat model with impulsive perturbation on the nutrient concentration. J. Math. Chem. **42**, 837–848 (2007)
325. Taam, C.T.: Asymptotically periodic and almost periodic solutions of nonlinear differential equations in Banach spaces. Technical report, Georgetown University, Washington (1966)
326. Takeuchi, Y.: Global Dynamical Properties of Lotka–Volterra Systems. World Scientific, Singapore (1996)
327. Tarta, A.: Functional-differential equation with retarded argument. Studia Univ. Babes-Bolyai **52**, 109–115 (2007)
328. Teng, Z.: Persistence and stability in general nonautonomous single-species Kolmogorov systems with delays. Nonlinear Anal. Real World Appl. **8**, 230–248 (2007)
329. Teng, Z., Nie, L., Fang, X.: The periodic solutions for general periodic impulsive population systems of functional differential equations and its applications. Comput. Math. Appl. **61**, 2690–2703 (2011)
330. Ulussever, T.: A welfare policy analysis in the Turkish economy: a simulation based macroeconomic application of the deficit financing policies. J. Frankl. Inst. **348**, 1416–1434 (2011)
331. Veech, W.A.: Almost automorphic functions on groups. Am. J. Math. **87**, 719–751 (1965)
332. Volterra, V.: Fluctuations in the abundance of a species considered mathematically. Nature **118**, 558–560 (1926)
333. Wang, L., Chen, L., Nieto, J.J.: The dynamics of an epidemic model for pest control with impulsive effect. Nonlinear Anal. Real World Appl. **11**, 1374–1386 (2010)
334. Wang, L., Yu, M., Niu, P.: Periodic solution and almost periodic solution of impulsive Lasota–Wazewska model with multiple time-varying delays. Comput. Math. Appl. **64**, 2383–2394 (2012)
335. Wazewska-Czyzewska, M., Lasota, A.: Mathematical problems of the dynamics of a system of red blood cells. Mat. Stos. **6**, 23–40 (1976)

336. Wei, F., Wang, K.: Asymptotically periodic solution of n-species cooperation system with time delay. Nonlinear Anal. Real World Appl. **7**, 591–596 (2006)
337. Widjaja, J., Bottema, M.J.: Existence of solutions of diffusive logistic equations with impulses and time delay and stability of the steady-states. Dyn. Contin. Discret. Impuls. Syst. Ser. A **12**, 563–578 (2005)
338. Xia, Y.: Positive periodic solutions for a neutral impulsive delayed Lotka–Volterra competition system with the effect of toxic substance. Nonlinear Anal. Real World Appl. **8**, 204–221 (2007)
339. Xian, X., O'Regan, D., Agarwal, R.P.: Multiplicity results via topological degree for impulsive boundary value problems under non-well-ordered upper and lower solution conditions. Bound. Value Probl. Art. ID 197205 (2008)
340. Xinzhu, M.: Almost periodic solution for a class of Lotka–Volterra type N-species evological systems with time delay. J. Syst. Sci. Complex. **18**, 488–497 (2005)
341. Xu, W., Li, J.: Global attractivity of the model for the survival of red blood cells with several delays. Ann. Differ. Equ. **14**, 357–363 (1998)
342. Xue, Y., Wang, J., Jin, Z.: The persistent threshold of single population under pulse input of environmental toxin. WSEAS Trans. Math. **6**, 22–29 (2007)
343. Yan, J.: Existence and global attractivity of positive periodic solution for an impulsive Lasota–Wazewska model. J. Math. Anal. Appl. **279**, 111–120 (2003)
344. Yan, P.: Impulsive SUI epidemic model for HIV/AIDS with chronological age and infection age. J. Theor. Biol. **265**, 177–184 (2010)
345. Yang, J., Yang, Z.: Stability and permanence of a pest management model with impulsive releasing and harvesting. Abstr. Appl. Anal. **2013**, Art. ID 832701 (2013)
346. Yang, T.: Impulsive Control Theory. Springer, Berlin (2001)
347. Yang, Y.: Establish of macroeconomics model with impulsive perturbation and analysis of its stability. In: Proceedings of the IEEE 2010 International Conference on Computer Application and System Modeling, Taiyuan, pp. V9-540–V9-543 (2010)
348. Yang, Y., Xu, D.: Stability analysis of delay neural networks with impulsive effects. IEEE Trans. Circuits Syst. **52**, 517–521 (2005)
349. Ye, D., Fan, M.: Periodicity in impulsive predator-prey system with Holling III functional response. Kodai Math. J. **27**, 189–200 (2004)
350. Yi, Z., Peng, P.A., Leung, K.S.: Convergence analysis of cellular neural networks with unbounded delay. IEEE Trans. Circuits Syst. I **48**, 680–687 (2001)
351. Yoshizawa, T.: Stability Theory by Lyapunov's Second Method. The Mathematical Society of Japan, Tokyo (1966)
352. Yoshizawa, T.: Asymptotically almost periodic solutions of an almost periodic system. Funkcial. Ekvac. **12**, 23–40 (1969)
353. Yoshizawa, T.: Some remarks on the existence and the stability of almost periodic solutions. SIAM Stud. Appl. Math. **5**, 166–172 (1969)
354. Zanolin, F.: Permanence and positive periodic solutions for Kolmogorov competing species systems. Results Math. **21**, 224–250 (1992)
355. Zhang, B.G., Gopalsamy, K.: Global attractivity in the delay logistic equation with variable parameters. Math. Proc. Camb. Philos. Soc. **170**, 579–590 (1990)
356. Zhang, F., Li, W., Huo, H.: Global stability of a class of delayed cellular neural networks with dynamical thresholds. Int. J. Appl. Math. **13**, 359–368 (2003)
357. Zhang, J.: Globally exponential stability of neural networks with variable delays. IEEE Trans. Circuits Syst. I **50**, 288–291 (2003)
358. Zhang, J., Suda, Y., Iwasa, T.: Absolutely exponential stability of a class of neural networks with unbounded delay. Neural Netw. **17**, 391–397 (2004)
359. Zhang, L., Teng, Z., Jiang, H.: Permanence for general nonautonomous impulsive population systems of functional differential equations and its applications. Acta Appl. Math. **110**, 1169–1197 (2010)
360. Zhang, Y., Sun, J.: Controlling chaotic Lu systems using impulsive control. Phys. Lett. A **342**, 256–262 (2005)

361. Zhao, C.J.: On a periodic predator-prey system with time-delays. J. Math. Anal. Appl. **331**, 978–985 (2007)
362. Zhao, H.: Global stability of bidirectional associative memory neural networks with distributed delays. Phys. Lett. A **30**, 519–546 (2002)
363. Zhao, Y., Xia, Y., Ding, W.: Periodic oscillation for BAM neural networks with impulses. J. Appl. Math. Comput. **28**, 505–423 (2008)
364. Zhikov, V.V.: The problem of almost periodicity for differential and operator equations. Matematika **8**, 94–188 (1969)
365. Zhong, W., Lin, W., Jiong, R.: The stability in neural networks with delay and dynamical threshold effects. Ann. Differ. Equ. **17**, 93–101 (2001)
366. Zhou, D., Cao, J.: Globally exponential stability conditions for cellular neural networks with time-varying delays. Appl. Math. Comput. **131**, 487–496 (2002)
367. Zhou, Q., Wan, L.: Impulsive effects on stability of Cohen–Grossberg-type bidirectional associative memory neural networks with delays. Nonlinear Anal. Real World Appl. **10**, 2531–2540 (2009)
368. Zhu, H., Zhu, Z., Wang, Q.: Positive almost periodic solution for a class of Lasota–Wazewska model with infinite delays. Appl. Math. Comput. **218**, 4501–4506 (2011)