

Bibliography

- [1] M. Abbas and B. E. Rhoades. Common fixed point results for noncommuting mappings without continuity in generalized metric spaces. *Applied Mathematics and Computation*, 215(1):262–269, 2009.
- [2] R. P. Agarwal, E. Karapınar, D. O'Regan, and A. F. Roldán-López de Hierro. *Fixed point theory in metric type spaces*. Springer, 2015.
- [3] A. Aghajani, M. Abbas, and J. R. Roshan. Common fixed point of generalized weak contractive mappings in partially ordered G_b -metric spaces. *Filomat*, 28(6):1087–1101, 2014.
- [4] M. A. Alghamdi and E. Karapınar. $G-\beta-\psi$ -contractive type mappings in g -metric spaces. *Fixed Point Theory and Applications*, 2013(1):1–17, 2013.
- [5] B. Amin and R. G. Vyas. Common fixed point theorems in generalized metric spaces in any number of arguments. *The Mathematics Students*, 89:141–152, 2020.
- [6] A. H. Ansari. Note on ϕ - ψ -contractive type mappings and related fixed point. In *The 2nd regional conference on mathematics and applications, PNU*, volume 377380, 2014.
- [7] S. Banach. Sur les opérations dans les ensembles abstraits et leur application aux équations intégrales. *Fundamenta Mathematicae*, 3(1):133–181, 1922.
- [8] V. Berinde. Approximating fixed points of weak contractions using the picard iteration. *Nonlinear Analysis Forum*, 9(1):43–54, 2004.
- [9] V. Berinde and I. A. Rus. Asymptotic regularity, fixed points and successive approximations. *Filomat*, 34(3):965–981, 2020.
- [10] W. M. Boyce. Commuting functions with no common fixed point. *Transactions of the American Mathematical Society*, 137:77–92, 1969.

- [11] A. Chanda, A. H. Ansari, L. K. Dey, and B. Damjanović. On non-linear contractions via extended C_F -simulation functions. *Filomat*, 32(10):3731–3750, 2018.
- [12] V. S. Chary and G. S. Reddy. Fixed point results for almost Z_G -contraction via simulation functions in G -metric spaces. *International Journal of Control and Automation*, 12(6):608–615, 2019.
- [13] S. Chatterjea. Fixed-point theorems. *C. R. Acad. Bulgare Sci.*, 25(6):727–750, 1972.
- [14] L. B. Ćirić. A generalization of banach’s contraction principle. *Proceedings of the American Mathematical society*, 45(2):267–273, 1974.
- [15] S. Czerwik. Contraction mappings in b -metric spaces. *Acta Mathematica et Informatica Universitatis Ostraviensis*, 1(1):5–11, 1993.
- [16] K. M. Das and K. V. Naik. Common fixed-point theorems for commuting maps on a metric space. *Proceedings of the American Mathematical Society*, 77(3):369–373, 1979.
- [17] A. F. Roldán-López de Hierro, E. Karapınar, and D. O’Regan. Coincidence point theorems on quasi-metric spaces via simulation functions and applications to G -metric spaces. *Journal of Fixed Point Theory and Applications*, 20(3):1–21, 2018.
- [18] A. F. Roldán-López de Hierro, E. Karapınar, C. Roldán-López de Hierro, and J. Martínez-Moreno. Coincidence point theorems on metric spaces via simulation functions. *Journal of Computational and Applied Mathematics*, 275:345–355, 2015.
- [19] A. F. Roldán-López de Hierro and B. Samet. ϕ -admissibility results via extended simulation functions. *Journal of Fixed Point Theory and Applications*, 19(3):1997–2015, 2017.
- [20] A. F. Roldán-López de Hierro and N. Shahzad. Common fixed point theorems under (r,s)- contractivity conditions. *Fixed Point Theory and Applications*, 2016(1):1–25, 2016.
- [21] P. Debnath, Z. D. Mitrović, and S. Y. Cho. Common fixed points of kannan, chatterjea and reich type pairs of self-maps in a complete metric space. *São Paulo Journal of Mathematical Sciences*, 15:383–391, 2021.
- [22] B. C. Dhage. Generalised metric space and mappings with fixed point. *Bulletin of Calcutta Mathematical Society*, 84:329–336, 1992.

- [23] M. A. Geraghty. On contractive mappings. *Proceedings of the American Mathematical Society*, 40(2):604–608, 1973.
- [24] S. K. Ghosh, C. Nahak, and R. P. Agarwal. Fixed point results using weak α_w -admissible mapping in G_b -metric spaces with applications. *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, 116(1):57, 2022.
- [25] H. M. Golshan. Simulation functions on metric fixed point theory. *Authorea Preprints*, 2023.
- [26] S. Gähler. 2-metrische räume und ihre topologische struktur. *Mathematische Nachrichten*, 26:115–148, 1963.
- [27] J. P. Huneke. Two counterexamples to a conjecture on commuting continuous functions of the closed unit interval. *Abstract 67T-231, Notices Amer. Math. Soc.*, 14:284, 1967.
- [28] J. R. Isbell. Commuting mappings of trees. *Bulletin of the American Mathematical Society*, 63:419, 1957.
- [29] M. Jleli and B. Samet. Remarks on G -metric spaces and fixed point theorems. *Fixed Point Theory and Applications*, 2012(1):1–7, 2012.
- [30] M. Jovanović, Z. Kadelburg, and S. Radenović. Common fixed point results in metric-type spaces. *Fixed point theory and applications*, 2010:1–15, 2010.
- [31] G. Jungck. Commuting mappings and fixed points. *American Mathematical Monthly*, 83:261–263, 1976.
- [32] G. Jungck. Compatible mappings and common fixed points. *International Journal of Mathematics and Mathematical Sciences*, 9:771–779, 1986.
- [33] G. Jungck. Common fixed points for noncontinuous nonself maps on nonmetric spaces. *Far Eastern Journal of Mathematical Sciences*, 4(2):199–215, 1996.
- [34] R. Kannan. Some results on fixed points. *Bulletin of the Calcutta Mathematical Society*, 60:71–76, 1968.
- [35] E. Karapınar and R. P. Agarwal. Further fixed point results on g -metric spaces. *Fixed Point Theory and Applications*, 2013(1):1–14, 2013.

- [36] E. Karapinar, G. H. Joonaghany, and F. Khojasteh. Study of Γ -simulation functions, Z_Γ -contractions and revisiting the $\mathcal{L}$ -contractions. *Filomat*, 35(1):201–224, 2021.
- [37] E. Karapinar, P. Kumam, and P. Salimi. On α - ψ -meir-keeler contractive mappings. *Fixed Point Theory and Applications*, 2013(1):1–12, 2013.
- [38] F. Khojasteh, S. Shukla, and S. Radenović. A new approach to the study of fixed point theory for simulation functions. *Filomat*, 29(6):1189–1194, 2015.
- [39] W. A. Kirk, P. S. Srinivasan, and P. Veeramani. Fixed points for mappings satisfying cyclical contractive conditions. *Fixed Point Theory*, 4(1):79–89, 2003.
- [40] M. A. Kutbi, N. Hussain, J. R. Roshan, and V. Parvaneh. Coupled and tripled coincidence point results with application to fredholm integral equations. In *Abstract and Applied Analysis*, volume 2014, page 18. Hindawi, 2014.
- [41] X. Liu, A. H. Ansari, S. Chandok, and S. Radenović. On some results in metric spaces using auxiliary simulation functions via new functions. *Journal of Computational Analysis & Applications*, 24(6):1103–1114, 2018.
- [42] X. Liu, S. Chang, Y. Xiao, and Zhao L. Some fixed point theorems concerning (ψ, ϕ) -contraction in complete metric spaces. *Journal of Nonlinear Sciences and Applications*, 9:4127–4136, 2016.
- [43] Z. Mustafa and B. Sims. A new approach to generalized metric spaces. *Journal of Nonlinear and convex Analysis*, 7(2):289–297, 2006.
- [44] X. Nie and W. X. Zheng. Multistability of neural networks with discontinuous non-monotonic piecewise linear activation functions and time-varying delays. *Neural Networks*, 65:65–79, 2015.
- [45] N. Y. Özgür and N. Taş. Some fixed-circle theorems on metric spaces. *Bulletin of the Malaysian Mathematical Sciences Society*, 42:1433–1449, 2019.
- [46] A. Padcharoen, P. Kumam, P. Saipara, and P. Chaipunya. Generalized suzuki type z -contraction in complete metric spaces. *Kragujevac Journal of Mathematics*, 42(3):419–430, 2018.
- [47] R. P. Pant. Discontinuity and fixed points. *Journal of Mathematical Analysis and Applications*, 240(1):284–289, 1999.

- [48] R. P. Pant, N. Özgür, N. Taş, A. Pant, and M. C. Joshi. New results on discontinuity at fixed point. *Journal of Fixed Point Theory and Applications*, 22:1–14, 2020.
- [49] S. V. Puvar and R. G. Vyas. Ćirić type results in quasi-metric spaces and g -metric spaces using simulation function. *Problemy Analiza. Issues of Analysis*, 11(2):72–90, 2022.
- [50] S. Radenović and S. Chandok. Simulation type functions and coincidence points. *Filomat*, 32(1):141–147, 2018.
- [51] M. Rashid, I. Batool, and N. Mehmood. Discontinuous mappings at their fixed points and common fixed points with applications. *Journal of Mathematical Analysis*, 9(1):90–104, 2018.
- [52] B. E. Rhoades. Contractive definitions and continuity. *Contemporary Mathematics*, 72:233–245, 1988.
- [53] R. Saadati, S. M. Vaezpour, P. Vetro, and B. E. Rhoades. Fixed point theorems in generalized partially ordered g -metric spaces. *Mathematical and Computer Modelling*, 52(5-6):797–801, 2010.
- [54] B. Samet, C. Vetro, and F. Vetro. Remarks on G -metric spaces. *International Journal of Analysis*, 2013:1–6, 2013.
- [55] B. Samet, C. Vetro, and P. Vetro. Fixed point theorems for α - ψ -contractive type mappings. *Nonlinear analysis: theory, methods & applications*, 75(4):2154–2165, 2012.
- [56] P. Shahi, J. Kaur, and S. S. Bhatia. Coincidence and common fixed point results for generalized $\alpha - \psi$ contractive type mappings with applications. *Bulletin of the Belgian Mathematical Society-Simon Stevin*, 22(2):299–318, 2015.
- [57] W. Shatanawi and K. Abodayeh. Some fixed and common fixed point results in g -metric spaces which can't be obtained from metric spaces. *Boletim da Sociedade Paranaense de Matematica*, 38(6):43–51, 2020.
- [58] W. Shatanawi and M. Postolache. Common fixed point results for mappings under nonlinear contraction of cyclic form in ordered metric spaces. *Fixed Point Theory and Applications*, 2013(1):1–13, 2013.
- [59] P. V. Subrahmanyam. Completeness and fixed-points. *Monatshefte für Mathematik*, 80:325–330, 1975.

- [60] T. Suzuki. A generalized banach contraction principle that characterizes metric completeness. *Proceedings of the American mathematical Society*, 136(5):1861–1869, 2008.
- [61] D. Wardowski. Fixed points of a new type of contractive mappings in complete metric spaces. *Fixed point theory and applications*, 2012(1):1–6, 2012.