## Some relations between recent fixed point results on metric space

## Gonca Durmaz<sup>1</sup>, Murat Olgun<sup>2</sup>

<sup>1</sup> Department of Mathematics, Faculty of Science, Çankiri Karatekin University, Çankiri, Turkey <sup>2</sup> Department of Mathematics, Faculty of Science, Ankara University, Ankara, Turkey goncadurmaz@karatekin.edu.tr, olgun@ankara.edu.tr

The aim of this talk is to take into account the effect of simulation functions to existence of fixed points of single valued mappings and introduce some nontrivial examples of the function.

## References

- [1] H. Argoubi, B. Samet, C. Vetro, *Nonlinear contractions involving simulation functions in a metric space with a partial order*, J. Nonlinear Sci. Appl., 8 (2015), 1082-1094.
- [2] G. Durmaz, I. Altun, *Fixed point results for*  $\alpha$ *-admissible mappings with modified simulation functions*, Submitted.
- [3] G. Durmaz, G. Mınak and I. Altun, Fixed point results for α-ψ-contractive mappings including almost contractions and applications, Abstr. Appl. Anal., 2014, Article ID 869123, 10 pp.
- [4] F. Khojasteh, S. Shukla and S. Radenović, A new approach to the study of fixed point theory for simulation functions, Filomat 29:6 (2015), 1189-1194.
- [5] M. Olgun, T. Alyıldız and Ö. Biçer, A new aspect to Picard operators with simulation functions, Turkish Journal of Mathematics, DOI: 10.3906/mat-1505-26.
- [6] A. Roldan, E. Karapınar, C. J. Roldan and M. Moreno, *Coincidence point theorems on metric spaces via simulation functions*, J. Comput. Appl. Math., 275 (2015), 345-355.