APPROXIMATING COINCIDENCE POINTS
BY \( \alpha \)-DENSE CURVES

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Abstract. The purpose of this paper is to show, under suitable conditions, an iterative procedure which if converges, the limit point is a coincidence point of two given itself mappings defined in a subset of a metric space. Also, under additional conditions, the convergence of proposed iterative procedure holds. Our main tool will be the so called \( \alpha \)-dense curves, which allow us to construct such procedure in a stable way, in the specified sense, providing also a bound for the error approximation at each iteration. To justify our result, we will analyze certain integral equations of Volterra type.

Key Words and Phrases: Coincidence points, iterative procedures, \( \alpha \)-dense curves.

2010 Mathematics Subject Classification: 55M20, 47J25, 47H10.

Acknowledgements. The author is grateful to the anonymous referee for his/her useful comments and suggestions. Also, my gratitude to Prof. Dr. G. Mora for his fruitful discussion of the preliminary version of the paper, and to my beloved Loli for her careful reading and grammar corrections to improve the quality of the paper.

References


Received: May 15, 2017; Accepted: September 25, 2017.