

# On some iteration schemes for numerical computation of fixed points

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The talk refers to some new iteration schemes for reckoning fixed points on the setting of Banach spaces, satisfying various contractive conditions. Their rate of convergence is studied by comparison with other processes, including the classical ones of Mann, Ishikawa and Agarwal et al. Numerical examples are given to support the results presented. Some remarks with respect to different numerical iteration procedures are also in view. Some polynomiographs connected to this research are also presented.

## References

- [1] K. Gdawiec and W. Kotarski, Polynomiography for the polynomial infinity norm via Kalantari's formula and nonstandard iterations. *Appl. Math. Comput.* **307** (2017), 17–30.
- [2] W. Sintunavarat and A. Pitea, On a new iteration scheme for numerical reckoning fixed points of Berinde mappings with convergence analysis, *J. Nonlinear Sci. Appl.* **9** (2016), 2553–2562.