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On some fixed point theorems and applications. Preliminary report.

There are interesting results, given by researchers, dealing with applications of fixed point theory in various fields. One of the most powerful techniques used in existence theory of differential equations, integral equations and functional equations is definitely fixed point theory. In this survey talk I would like to present a few recent results on fixed points and illustrate applications in approximation theory, variational inequalities and mathematical economics. (Received August 15, 2008)