G. S. Saluja and Hemant Kumar Nashine

Fixed points of Ciric quasi-contractive operator in\ncat(0) spaces

Abstract: In this paper, we study a three-step iterative algo-
rithm for Ciric quasi-contractive operator in the framework of CAT(0)\nspaces. Also we establish strong convergence theorems for above said\nscheme and operator. Our results improve and extend the corre-
spanding results from the existing literature (see, e.g., [23, 24] and\nsome others).

Urmila Mishra, Hemant Kumar Nashine and Rashmi

Fixed point theory for generalized \((\varphi, \psi)\)-weak\ncontractions involving \(f\)-\(g\) reciprocally continuity

Abstract: In this attempt we present common fixed point theorem\nfor generalized \((\varphi, \psi)\)-weak contraction with new notion \(f\)-\(g\) recipro-
cal continuity in \(G\)-metric space. As an application, we present a
theorem for $(\varphi, \psi)$-weak cyclic contraction.

Safeer Hussain Khan, Murat Ozdemir and Sezgin Akbulut

Some common-fixed-point-results for nonself asymptotically quasi-nonexpansive mappings by a two-step iterative process

169-188

Abstract: Strong convergence results for two asymptotically quasi-nonexpansive mappings are obtained by using a general and independent two-step iterative process assuming compactness of only one of the two mappings and then under the condition $(A')$. Weak convergence is obtained under Opial’s condition. Our results generalize a number of corresponding results in contemporary literature. Another interesting fact is that our results obtained even for only one mapping are new.

S. N. Mishra and Rajendra Pant

Some fixed point theorems in generalized ultrametric spaces

189-196

Abstract: In this paper, two important results of Petalas and Vidalis (Proc. Amer. Math. Soc. 118(1993) 819–821) which present positive solutions to the well known problem that neither non-expansive nor contractive mappings of a complete metric space have a fixed point, are extended to generalized ultrametric spaces.

Ekrem Savas

On asymptotically $I^\lambda$-statistical equivalent sequences of order $\alpha$

197-207

Abstract: This paper presents the following definition which is a natural combination of the definition for asymptotically equivalent of order $\alpha$, where $0 < \alpha < 1$, $I$-statistically limit, and $\lambda$-statistical
convergence. The two nonnegative sequences \( x = (x_k) \) and \( y = (y_k) \) are said to be asymptotically \( I^\lambda \)-statistical equivalent of order \( \alpha \) to multiple \( L \) provided that for every \( \varepsilon > 0 \) and \( \delta > 0 \),

\[
\left\{ n \in \mathbb{N} : \frac{1}{\lambda_n} \left| \{ k \in I_n : \left| \frac{x_k}{y_k} - L \right| \geq \varepsilon \} \right| \geq \delta \right\} \in \mathcal{I},
\]

(denoted by \( x \sim_{s I^\lambda(\alpha)} I^\lambda \)-statistical equivalent of order \( \alpha \) if \( L = 1 \). In addition, we shall also present some inclusion theorems.

**Aleksandar S. Cvetkovic, Stojan Radenovic, Suzana Simic and Marija P. Stanic**

**Generalized \( \varphi \)-contraction for four mappings on solid cone metric spaces**

**Abstract:** In this paper we introduce the concept of a generalized \( \varphi \)-contraction for four mappings in solid cone metric spaces. Our results generalize, extend, unify, enrich and complement recent common fixed point results established by Chi-Ming Chen, Tong Huei Chang [Chi-Ming Chen, Tong-Huei Chang, Common fixed point theorems for a weaker Meir-Keeler type function in cone metric spaces, Applied Mathematics Letters 23 (2010) 1336-1341], I. Arandelović et al. [I. Arandelović, Z. Kadelburg, S. Radenović, Boyd-Wong-type common fixed point results in cone metric spaces, Applied Mathematics and Computation 217 (2011) 7167-7171] and A. Razani et al. [A. Razani, V. Rakočević, Z. Goodarzi, Generalized \( \varphi \)-contraction for a pair of mappings on cone metric spaces, Applied Mathematics and Computation 217 (2011) 8899-8906]. Some examples are included which illustrate the cases when new results can be applied while old one cannot.

**Abdelkrim Aliouche and Carlos Simpson**

**Common fixtures of several maps on 2-metric spaces**
Abstract: We look for common fixed subsets of several maps on a 2-metric space, aiming for fixed points or fixed lines. The properties satisfied by the fixtures depend on the form of the triangle contractivity condition which is supposed, so for example in a weaker setting one of the possibilities is a subset of a line with small diameter. This is illustrated by some examples.