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CONTENTS

Sehie Park

Recollecting joint works with B. E. Rhoades 263-277

Abstract: In this paper, we recall briefly the contents of all of the joint papers of S. Park and B. E. Rhoades in the period 1979-1993 for the readers' convenience. Each title of Sections 1-11 represents the main topic of the corresponding joint work.

G. Jungck

Remarks and results regarding weak compatibilty and proper orbits 279-290

Abstract: Known fixed and common fixed point results involving weakly compatible maps and maps with proper orbits are presented. These theorems, stated for Hausdorff topological spaces, provide motivation and basis for two new fixed point theorems for semimetric spaces.

G. S. Saluja and Hemant Kumar Nashine

Weak convergence theorems of two-step iteration process for two asymptotically quasi-nonexpansive mappings 291-311

Abstract: Suppose K is a nonempty closed convex subset of a real uniformly convex Banach space E. Let $S, T\colon K \longrightarrow K$ be two asymptotically quasi-nonexpansive mappings with sequences $\{u_n\}$ and $\{v_n\}$ respectively, such that $\sum_{n=1}^{\infty} u_n < \infty$, $\sum_{n=1}^{\infty} v_n < \infty$ and $F =$

$F(S) \cap F(T) = \{x \in K : Sx = Tx = x\} \neq \emptyset$. Suppose $\{x_n\}$ is generated iteratively by $x_1 \in K$, $x_{n+1} = (1-\alpha_n)T^n x_n + \alpha_n S^n y_n$, $y_n = (1-\beta_n)x_n + \beta_n T^n x_n$, $n \geq 1$, where $\{\alpha_n\}$ and $\{\beta_n\}$ are real sequences in $[\delta, 1-\delta]$ for some $\delta \in (0,1)$. If E also has a Fréchet differentiable norm or its dual E^* has the Kedec-Klee property, then the weak convergence of the sequence $\{x_n\}$ to some $q \in F$ are obtained.

Madhu Aggarwal and Renu Chugh

Stability and convergence results for a new three step iterative procedure 313-332

Abstract: We introduce a new three step iterative procedure and prove some stability and convergence results for φ-quasinonexpansive operators defined on a Banach space. The results obtained generalize several existing results in the literature.

George A. Anastassiou

The reduction method in fractional calculus and fractional Ostrowski type inequalities 333-357

Abstract: Here we study generalised fractional integrals and fractional derivatives. We present the reduction method of Fractional Calculus and we reduce them to basic fractional integrals and fractional derivatives. We give a series of generalised Ostrowski type fractional inequalities involving s-convexity. We apply all of the above to Hadamard and Erdélyi-Kober fractional integrals and fractional derivatives. We produce also important generalised fractional Taylor formulae.

C. J. Mozzochi

Unconditional sufficient conditions for the Goldbach and the Twin Primes Conjectures 359-375

Abstract: Using a primitive formulation of the circle method, we obtain, unconditionally, sufficient conditions to establish the asymptotic Goldbach Conjecture and the Twin Primes Conjecture.

Sanjoy Ghosal and Sumit Som

Lacunary statistical convergence of a sequence of random variables in probability 377-395

Abstract: In this paper three types of convergence of a sequence of random variables, namely, S_θ-convergence in probability, S_θ-convergence in mean of order γ and S_θ-convergence in distribution have been introduced and the interrelation among them has been investigated. Also their certain basic properties have been studied.

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