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**Jiling Cao and Ivan L. Reilly**

ON PAIRWISE ALMOST CONTINUOUS MULTIFUNCTIONS AND CLOSED  
GRAPHS

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**Abstract:** In this paper, we introduce and discuss pairwise upper and lower almost continuities for a multifunction  $F : (X, T_1, T_2) \rightarrow (Y, \mathcal{U}_1, \mathcal{U}_2)$  between two bitopological spaces. Characterizations of pairwise upper and lower almost continuities and some related closed graph properties are obtained. We also establish bitopological analogues of closed graph and open mapping theorems for multihomomorphisms between quasitopological groups.

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NONINVARIANT MATRIX VALUATIONS AND THEIR ASSOCIATED VALUED  
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**Abstract:** In this paper we introduce the notion of a noninvariant (matrix) valuation

on a ring  $R$ . When  $D$  is a division ring, it is shown that there exists a noninvariant matrix valuation on  $D$  iff there is a matrix valuation on  $D$ . It is also proved that if  $R$  is a ring with a noninvariant matrix valuation  $V$ , then  $V$  induces a (Krull) valuation  $v$  on epic  $R$ -field  $K$ .

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**Abstract:** A characterization of weighted substitution operators on weighted spaces of infinitely differentiable functions is investigated in this paper.

**Janusz Matkowski and Shyam Lal Singh**

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**A. Ratha**

CONTINUOUS LINEAR FUNCTIONALS AND OPERATORS ON SOME VECTOR SEQUENCE SPACES

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**Abstract:** Generalised vector sequence spaces  $\mathcal{L}^{(p)}(E_k, \Lambda)$ ,  $c_0^{(p)}(E_k, \Lambda)$  and  $\mathcal{L}_\infty^{(p)}(E_k, \Lambda)$  are defined with the use of an associated multiplier sequence  $\Lambda = (V_k)$ , of non-zero complex numbers. The  $\alpha$ -and continuous duals of the generalised space  $\mathcal{L}^{(p)}(E_k, \Lambda)$  are obtained and a representation theorem for continuous linear operators on this space, in terms of the induced operators on each  $E_k, k = 1, 2, \dots$ , is established.

**BL. P. Damyanov**

A NOTE ON THE SHEAVES OF DISTRIBUTIONS

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**Abstract:** Let  $D_M$  denote the presheaf of distributions extended on a smooth  $n$ -manifold  $M$  by a known construction-as collections of 'compatible' ordinary distributions, each given on the charts of some  $C^\infty$ -atlas on  $M$ . On endowing the sets  $D_M(U)$  of distributions on the open set  $U \subset M$  with a vector topology,  $D_M$  becomes a sheaf of Housdorff topological vector spaces-exactly as is the presheaf  $D$  of distributions on  $R^n$ . In this note we study some isomorphism properties of the distribution sheaves considered on different manifolds  $M$  or on  $R^n$ , the isomorphism being specified so as to be in consistency with the  $C^\infty$ -structure on the based.

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