Abstract
The authors consider the commutativity and associativity of binary di-operations on a texture and go on to study the space of real difunctions on a texture and the space of bicontinuous real difunctions on a ditopological texture space.

Keywords: Texture, Relation, Corelation, Direlation, Difunction, Commutativity, Associativity, Di-operation, Real difunction.

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1. Introduction
Let $S$ be a non-empty set. We recall [1] that a texturing on $S$ is a point separating, complete, completely distributive lattice $\mathcal{S}$ of subsets of $S$ with respect to inclusion, which contains $S$, $\emptyset$, and for which meet $\bigwedge$ coincides with intersection $\bigcap$ and finite joins $\bigvee$ coincide with unions $\bigcup$. Textures first arose in connection with the representation of Hutton algebras and lattices of L-fuzzy sets in a point-based setting [3], and have subsequently proved to be a fruitful setting for the investigation of complement-free concepts in mathematics. The sets

$$P_s = \bigcap \{A \in \mathcal{S} \mid s \in A\}, \quad Q_s = \bigvee \{P_u \mid u \in S, \ s \notin P_u\}, \ s \in S,$$

are important in the study of textures, and the following facts concerning these so-called p-sets and q-sets will be used extensively below.

1.1. Lemma. [5, Theorem 1.2]

1. $s \notin A \implies A \subseteq Q_s \implies s \notin A^s$ for all $s \in S, A \in \mathcal{S}$.
2. $A^s = \{s \mid A \not\subseteq Q_s\}$ for all $A \in \mathcal{S}$.
3. For $A_i \in \mathcal{S}, i \in I$ we have $(\bigvee_{i \in I} A_i)^s = \bigcup_{i \in I} A_i^s$.
4. $A$ is the smallest element of $\mathcal{S}$ containing $A^s$ for all $A \in \mathcal{S}$.

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