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Complex Fuzzy Structured Element and Its Properties

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ABSTRACT
The first part of this paper gives the definition about complex fuzzy structured element on the basis of one-dimensional fuzzy structured element and some of its property. The following part introduces its limit and continuity. All of this has opened up a vision for the research of fuzzy structured element, and also played an important role in promoting its progress.

KEYWORDS
complex fuzzy structured element, modulus, continuity of complex fuzzy structured element

Cite this paper

References
[1]   D. Dubois and H. Prade, " Operations on fuzzy numbers," [J] Systems Sci, Vol. 9, No. 6, pp. 613– 626, 1978.

[2]   G. Zhang, " Fuzzy continuous function and ir' s propertyes [J]," Fuzzy Sets and Systems, Vol. 43, pp. 159– 171, 1991.

[3]   M. Mizumoto, Tanakak, " The four operations for arithmetic on fuzzy numbers [J]," Systems Comput Controls, Vol. 7, No. 5, pp. 73– 81, 1976.

[4]   J. J. Buckley, " Fuzzy complex analysis II: Integration [J]," Fuzzy Sets and Systems, Vol. 49, pp. 171– 179, 1992.

[5]   S. Z. Guo, " Structured element representation of limit and continuity of fuzzy—valued function [J]," Journal of Hainan normal university (nature science), Vol. 21, No. 4, pp. 351– 356, 2008.

[6]   S. Z. Guo, Z. X. Su, L. Wang, " Method of structured element in fuzzy analysis and calculation [J]," Fuzzy systems and mathematics, Vol. 18, No. 3, pp. 68– 75, 2004.

[7]   S. Z. Guo, " Method of structuring element in fuzzy analysis (II) [J]," Journal of Liaoning Technical University, Vol. 21, No. 6, pp. 808– 810, 2002.