

## EXISTENCE AND STABILITY OF ANTI-PERIODIC SOLUTIONS FOR FUZZY BAM NEURAL NETWORKS ON TIME SCALES

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**Abstract.** By applying some analysis skills and constructing suitable Lyapunov functional, some sufficient conditions are established for the existence and global exponential stability of anti-periodic solutions for a kind of fuzzy BAM neural networks on time scales. Moreover an example is given to illustrate our results.

**Keywords.** Anti-periodic solutions; Fuzzy BAM neural networks; Exponential stability; Time scales.

**AMS (MOS) subject classification:** 34K20; 34K13; 92B20.

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