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*Periodic solutions in functional
differential equations*

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Abstract

We will start this talk by presenting a review on the existence of travelling waves in 1D lattices. We present topological and variational methods to prove the existence of periodic solution in functional differential equations of mixed type. Our results related with the existence of periodic travelling waves in nonlinear lattice system. Time-permitting, we will present some results on uniform sliding states in specific nonlinear lattice equation.