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Analysis of periodic solutions for nonlinear coupled integro-differential systems with variable delays

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Abstract: The objective of this work is the application of Krasnosel'skii's fixed point technique to prove the existence of periodic solutions of a system of coupled nonlinear integro-differential equations with variable delays. An example is given to illustrate this work.

Keywords: integro-differential equation; periodic solution; Krasnosel'skii's fixed point theorem

AMS Subject Classification: 34K20, 45J05, 45D05

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