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<tr><th>authors</th><td>A. Ardjouni
A. Djoudi</td></tr>
<tr><th>title</th><td>Existence of Periodic Solutions for Nonlinear Neutral Dynamic Equations with Functional Delay on a Time Scale</td></tr>
<tr><th>publication_date</th><td>None</td></tr>
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<tr><th>volume</th><td>52</td></tr>
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<tr><th>abstract</th><td>Let $\mathbb {T}$ be a periodic time scale. The purpose of this paper is to use a modification of Krasnoselskiiâ€™s fixed point theorem due to Burton to prove the existence of periodic solutions on time scale of the nonlinear dynamic equation with variable delay $x^{\triangle }\left(t\right) =-a\left(t\right) h\left(x^{\sigma }\left(t\right) \right) +c(t)x^{\widetilde{\triangle }}\left(t-r\left(t\right) \right) +G\left(t,x\left(t\right) ,x\left(t-r\left(t\right) \right) \right)$, $t\in \mathbb {T}$, where $f^{\triangle }$ is the $\triangle $-derivative on $\mathbb {T}$ and $f^{\widetilde{\triangle }}$ is the $\triangle $-derivative on $(id-r)(\mathbb {T})$. We invert the given equation to obtain an equivalent integral equation from which we define a fixed point mapping written as a sum of a large contraction and a compact map. We show that such maps fit very nicely into the framework of Krasnoselskiiâ€“Burtonâ€™s fixed point theorem so that the existence of periodic solutions is concluded. The results obtained here extend the work of Yankson [Yankson, E.: Existence of periodic solutions for totally nonlinear neutral differential equations with functional delay Opuscula Mathematica 32, 3 (2012), 617â€“627.].</td></tr>
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A. Djoudi</td></tr>
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<tr><th>abstract</th><td>We use a modification of Krasnoselskii's fixed point theorem due to Burton (see [Liapunov functionals, fixed points and stability by Krasnoselskii's theorem, Nonlinear Stud. 9 (2002), 181--190], Theorem 3) to show that the totally nonlinear neutral differential equation with variable delay \begin{equation*} x'(t) = -a(t)h (x(t)) + c(t)x'(t-g(t))Q' (x(t-g(t))) + G (t,x(t),x(t-g(t))), \end{equation*} has a periodic solution. We invert this equation to construct a fixed point mapping expressed as a sum of two mappings such that one is compact and the other is a large contraction. We show that the mapping fits very nicely for applying the modification of Krasnoselskii's theorem so that periodic solutions exist.</td></tr>
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