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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>
<tr><th>source</th><td>SupportedSources.SEMANTIC_SCHOLAR</td></tr>
<tr><th>journal</th><td></td></tr>
<tr><th>volume</th><td>52</td></tr>
<tr><th>doi</th><td></td></tr>
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<tr><th>id</th><td>id-2648452187545823082</td></tr>
<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>
<tr><th>versions</th><td></td></tr>
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<tr><th>authors</th><td>A. Ardjouni
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<tr><th>title</th><td>EXISTENCE OF PERIODIC SOLUTIONS FOR A SECOND ORDER NONLINEAR NEUTRAL FUNCTIONAL DIFFERENTIAL EQUATION</td></tr>
<tr><th>publication_date</th><td>None</td></tr>
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<tr><th>abstract</th><td>We study the existence of periodic solutions of the second order nonlinear neutral differential equation with variable delay xâ€²â€² (t) + p (t)xâ€² (t) + q (t)h (x (t)) = c (t)xâ€² (tâˆ' Ï„ (t)) + f (t, x (tâˆ' Ï„ (t))) . We invert the given equation to obtain an integral, but equivalent, 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 Krasnoselskii-Burtonâ€™s fixed point theorem so that the existence of periodic solutions is conclued.</td></tr>
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