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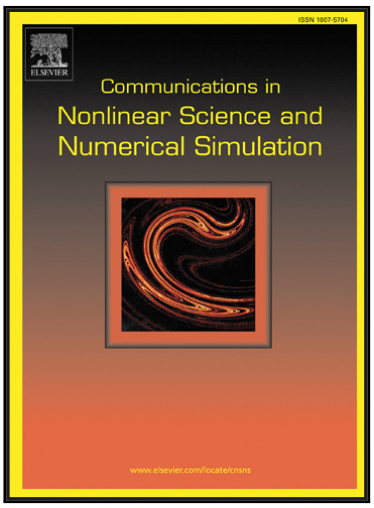

Comparison between two meshless methods based on collocation technique for the numerical solution of four-species tumor growth model

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PII: S1007-5704(16)30258-1
DOI: 10.1016/j.cnsns.2016.07.024
Reference: CNSNS 3944

To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 16 June 2015
Revised date: 8 June 2016
Accepted date: 22 July 2016

Please cite this article as: Mehdi Dehghan, Vahid Mohammadi, Comparison between two meshless methods based on collocation technique for the numerical solution of four-species tumor growth model, *Communications in Nonlinear Science and Numerical Simulation* (2016), doi: 10.1016/j.cnsns.2016.07.024

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Highlights

- In current work, we consider two new numeric methods for simulating tumor growth model.
- Two methods which are applied in the present paper are meshless methods.
- One of them is based on collocation approach and another one is based on local weak form.
- To apply collocation technique, moving least squares(MLS) and radial basis functions(RBFs) are used.
- The required derivatives are approximated by the direct approach in MLS approximation.
- The MLS approximation is considered in the implementation of the MLPG technique.
- Some numerical examples (They include one 3dimensional case) are veri
  ed in this work.

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