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Acknowledgement of submission of Special Session Papers 350 for SMC 2021

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Re: Submission no., # 350, Tumor model parameter estimation for therapy optimization using artificial neural networks

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Submission number: 350

Authors or proposers names and PINs:

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Title:

Tumor model parameter estimation for therapy optimization using artificial neural networks

Date submitted: April 12, 2021

Type of submission: Special Session Papers

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Invited session identification code: 567af

Keywords:

Neural Networks and their Applications; Computational Life Science; Biometric Systems and Bioinformatics

Profile:

Special Sessions: Cyber

Abstract:

Therapy optimization and personalization in cancer treatment requires reliable mathematical models. A key issue in personalization is the identification of the model parameters. We employ artificial neural networks to identify the model parameters based on few measurements using a priori information about the range of the parameters. The training data are generated in silico on known parameter intervals, taking into consideration the experimental setup we use to validate our results. The estimated parameters can be used to track the change of the parameters and can also be used as initial guesses for identification algorithms using local search.

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