



Original Research Articles in Peer-Reviewed Journals from Past BIOMATH Conferences

The four past Biomath conferences in Sofia (1995, 2011, 2012, 2013) resulted in a total number of 116 original research articles, as follows: 4 articles in J.UCS, 59 articles in Elsevier journal CAMWA, 14 articles in B&BE and 39 articles in journal BIOMATH. A list of titles of these articles follows.

Journal of Universal Computer Science (J. UCS), Volume 2, Issue 2, Pages 59–95

<http://dx.doi.org/10.3217/jucs-002-02>

S. M. Markov, Y. Akyildiz, Curve Fitting and Interpolation of Biological Data Under Uncertainties, Journal of Universal Computer Science (J. UCS), vol. 2, no. 2 (1996), 59–69

<http://dx.doi.org/10.3217/jucs-002-02-0058>

P. Tsanova Andreeva, Inexact Information Systems and its Application to Approximate Reasoning, Journal of Universal Computer Science (J. UCS), vol. 2, no. 2 (1996), 70–76

<http://dx.doi.org/10.3217/jucs-002-02-0070>

D. Lavenier, Dedicated Hardware for Biological Sequence Comparison, Journal of Universal Computer Science (J. UCS) , vol. 2, no. 2 (1996), 77–86

<http://dx.doi.org/10.3217/jucs-002-02-0077>

D. A. Mac Dónaill, On the Scalability of Molecular Computational Solutions to NP Problems, Journal of Universal Computer Science (J. UCS), vol. 2, no. 2 (1996), 87–95

<http://dx.doi.org/10.3217/jucs-002-02-0087>

Computers & Mathematics with Applications, Volume 32, Issue 11, Pages 1–123 (December 1996)

I. Aradi, P. Érdi, Signal generation and propagation in the olfactory bulb: Multicompartmental modeling, Computers & Mathematics with Applica-

tions, Vol. 32, Issue 11, 1–27.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00193-9](http://dx.doi.org/10.1016/S0898-1221(96)00193-9)

D. A. Mac Dónaill, N. H. Buttimore, The exploitation of assembly language instructions in biological text manipulation: I. Nucleotide sequences, Computers & Mathematics with Applications, Vol. 32, Issue 11, 29–38.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00194-0](http://dx.doi.org/10.1016/S0898-1221(96)00194-0)

N. H. Buttimore, D. A. Mac Dónaill, The exploitation of assembly language instructions in biological text manipulation: II. Amino acid sequences, Computers & Mathematics with Applications, Vol. 32, Issue 11, 39–45.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00195-2](http://dx.doi.org/10.1016/S0898-1221(96)00195-2)

C. E. A. Grigorescu, K. B. Radev, V. Chesaru, T. Necsoiu, I. Pricop, Thermal fluxes from the human body, Computers & Mathematics with Applications, Vol. 32, Issue 11, 47–55.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00196-4](http://dx.doi.org/10.1016/S0898-1221(96)00196-4)

T. Kostova, J. Li, Oscillations and stability due to juvenile competitive effects on adult fertility, Computers & Mathematics with Applications, Vol. 32, Issue 11, 57–70.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00197-6](http://dx.doi.org/10.1016/S0898-1221(96)00197-6)

P. K. Maini, Spatial and spatiotemporal pattern formation in generalised turing systems, Computers & Mathematics with Applications, Vol. 32, Issue 11, 71–77.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00198-8](http://dx.doi.org/10.1016/S0898-1221(96)00198-8)

H. -S. Niwa , Mathematical model for the size distribution of fish schools, Computers & Mathematics with Applications, Vol. 32, Issue 11, 79–88.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00199-X](http://dx.doi.org/10.1016/S0898-1221(96)00199-X)

K. B. Radev, C. E. A. Grigorescu, K. Berovski, B. Logofatu, Nonlinear signal processing in bioenergetics,Computers & Mathematics with Applications, Vol. 32, Issue 11 , 89–91.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00200-3](http://dx.doi.org/10.1016/S0898-1221(96)00200-3)

A. G. Rigas, D. S. Tsitsis, Spectral analysis techniques of stationary point processes: Extensions and applications to neurophysiological problems, Computers & Mathematics with Applications, Vol. 32, Issue 11, 93–99.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00201-5](http://dx.doi.org/10.1016/S0898-1221(96)00201-5)

Z. Zlatev, J. Fenger, L. Mortensen, Relationships between emission sources and excess ozone concentrations, Computers & Mathematics with Applications, Vol. 32, Issue 11, 101–123.

[http://dx.doi.org/10.1016/S0898-1221\(96\)00202-7](http://dx.doi.org/10.1016/S0898-1221(96)00202-7)

**Computers & Mathematics with Applications, Volume 64,
Issue 3, Pages 161–390 (August 2012)**

Alicia Prieto-Langarica, Hristo V. Kojouharov, Benito M. Chen-Charpentier, Discrete and continuous approaches to modeling cell movement in the presence of a foreign stimulus, *Computers & Mathematics with Applications* 64 (3), 2012, 167–174.

<http://dx.doi.org/10.1016/j.camwa.2011.11.058>

Robert Strehl, Andriy Sokolov, Stefan Turek, Efficient, accurate and flexible finite element solvers for chemotaxis problems, *Computers & Mathematics with Applications* 64 (3), 2012, 175–189.

<http://dx.doi.org/10.1016/j.camwa.2011.12.040>

Azmy S. Ackleh, Keng Deng, Xing Yang, Sensitivity analysis for a structured juvenile-adult model, *Computers & Mathematics with Applications* 64 (3), 2012, 190–200.

<http://dx.doi.org/10.1016/j.camwa.2011.12.053>

Michael Chapwanya, Jean M.-S. Lubuma, Ronald E. Mickens, From enzyme kinetics to epidemiological models with Michaelis-Menten contact rate: Design of nonstandard finite difference schemes, *Computers & Mathematics with Applications* 64 (3), 2012, 201–213.

<http://dx.doi.org/10.1016/j.camwa.2011.12.053>

Peter A. Djondjorov, Vassil M. Vassilev, Ivailo M. Mladenov, Deformation of injected vesicles adhering onto flat rigid substrates, *Computers & Mathematics with Applications* 64 (3), 2012, 214–220.

<http://dx.doi.org/10.1016/j.camwa.2012.01.044>

Maria Angelova, Krassimir Atanassov, Tania Pencheva, Purposeful model parameters genesis in simple genetic algorithms, *Computers & Mathematics with Applications* 64 (3), 2012, 221–228.

<http://dx.doi.org/10.1016/j.camwa.2012.01.047>

Angel G. Angelov, Maroussia Slavtchova-Bojkova, Bayesian estimation of the offspring mean in branching processes: Application to infectious disease data, *Computers & Mathematics with Applications* 64 (3), 2012, 229–235.

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A. Gómez-Corral, M. López García, On the number of births and deaths during an extinction cycle, and the survival of a certain individual in a competition process, *Computers & Mathematics with Applications* 64 (3), 2012, 236–259.

<http://dx.doi.org/10.1016/j.camwa.2012.01.058>

Gaik Ambartsoumian, Inversion of the V-line Radon transform in a disc and its applications in imaging, Computers & Mathematics with Applications 64 (3), 2012, 260–265.

<http://dx.doi.org/10.1016/j.camwa.2012.01.059>

Dessislava Jereva, Ilza Pajeva, Tania Pencheva, Data extraction module-A supplementary tool for the AMMOS_ProtLig software package, Computers & Mathematics with Applications 64 (3), 2012, 266–271.

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Elena Lilkova, Genoveva Nacheva, Peicho Petkov, Petko Petkov, Stoyan Markov, Nevena Ilieva, Leandar Litov, Metadynamics study of mutant human interferon-gamma forms, Computers & Mathematics with Applications 64 (3), 2012, 272–277.

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I. Cimrák, M. Gusenbauer, T. Schrefl, Modelling and simulation of processes in microfluidic devices for biomedical applications, Computers & Mathematics with Applications 64 (3), 2012, 278–288.

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<http://dx.doi.org/10.1016/j.camwa.2013.02.009>

Merab Svanadze, Antonio Scalia, Mathematical problems in the coupled linear theory of bone poroelasticity, Computers & Mathematics with Applications, Vol. 66, Issue 9 (2013), 1554–1566.

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<http://dx.doi.org/10.1016/j.camwa.2012.12.003>

Yves Coudière, Mazen Saad, Alexandre Uzureau, Analysis of a finite volume method for a bone growth system in vivo, Computers & Mathematics with Applications, Vol. 66, Issue 9 (2013), 1581–1594.

<http://dx.doi.org/10.1016/j.camwa.2013.02.002>

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Rim Gouia-Zarrad, Analytical reconstruction formula for n-dimensional conical Radon transform

O. Angulo, J. C. Lopez-Marcos, MA Lopez-Marcos, Analysis of an efficient integrator for a size-structured population model with a dynamical resource

G. Chamoun, M. Saad, R. Talhouk, A coupled anisotropic chemotaxis-fluid model: the case of twosidely degenerate diffusion

E. D. Popova, Improved enclosure for some parametric solution sets with linear shape

N. Dimitrova, Mikhail Krastanov, Model-based optimization of biogas production in an anaerobic biodegradation process

C. Timofte, Homogenization results for ionic transport in periodic porous media

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