

LIST OF PUBLICATIONS, DEPARTMENT OF MATHEMATICS, UNIVERSITY OF THE AEGEAN  
(2005-2022)

Publications in international peer-reviewed journals

2022	<p>[1] <b>Anoussis, M.</b>, Elefterakis, G.K., Katavolos, A., "Synthetic properties of locally compact groups: preservation and transference", <i>Monatshefte fur Mathematik</i>, <b>IN PRESS</b>, 2022.</p> <p>[2] <b>Keremedis, K.</b>, Wajch, E., "Cuf products and cuf sums of (quasi-) metrizable spaces in ZF", <i>Periodica Mathematica Hungaria</i>, <b>IN PRESS</b>, 2022.</p> <p>[3] <b>Keremedis, K.</b>, Wajch, E., "Denumerable cellular families in ZF", <i>Portugaliae Mathematica</i>, <b>78(3)</b>, pp. 281-321, 2022.</p> <p>[4] <b>Keremedis, K.</b>, "k-spaces, sequential spaces and related topics in the absence of the axiom of choice", <i>Topology and its Applications</i>, <b>318</b>, 2022.</p> <p>[5] <b>Kofinas, C.E.</b>, "Automorphisms of free centre-by-metabelian groups of small rank", <i>Archiv der Mathematik</i>, <b>119(4)</b>, pp. 337-350, 2022.</p> <p>[6] Eden, M., <b>Nikolopoulos, C.</b>, Muntean, A., "A multiscale quasilinear system for colloids deposition in porous media: Weak solvability and numerical simulation of a near-clogging scenario", <i>Nonlinear Analysis: Real World Applications</i>, <b>63</b>, 2022.</p> <p>[7] Mageira, K., Pittou, D., <b>Papasalouros, A.</b>, Kotis, K., Zangogianni, P., Daradoumis, A., "Educational AI chatbots for content and language integrated learning", <i>Applied Sciences (Switzerland)</i>, <b>12(7)</b>, 3239, 2022.</p> <p>[8] Chatzis, D., <b>Papasalouros, A.</b>, Kavallieratou, E., "Planning a robotic competition", <i>Computer Applications in Engineering Education</i>, <b>30(4)</b>, pp. 1248-1263, 2022.</p> <p>[9] <b>Gkormpatsis, S.D.</b>, <b>Housiadas, K.D.</b>, Beris, A.N., "Steady sphere translation in weakly viscoelastic UCM/Oldroyd-B fluids with perfect slip on the sphere", <i>European JI of Mechanics, B/Fluids</i>, <b>95</b> pp. 335-346, 2022.</p> <p>[10] <b>Housiadas, K.D.</b>, <b>Tsangaris, C.</b>, "High order lubrication theory in channels and tubes with variable geometry", <i>Acta Mechanica</i>, <b>IN PRESS</b>, 2022.</p>
2021	<p>[1] <b>Anoussis, M.</b>, <b>Felouzis, V.</b>, <b>Tsaprounis, K.</b>, "Almost disjoint families and ultrapowers", <i>Journal of Logic &amp; Analysis</i>, <b>13(4)</b>, pp. 1-13, 2021.</p> <p>[2] <b>Diamantidis, S.</b>, Horikis, T.P., Karachalios, N.I., "Exciting extreme events in the damped and AC-driven NLS equation through plane-wave initial conditions", <i>Chaos</i>, <b>31(5)</b>, 053103, 2021.</p> <p>[3] Karamatsoukis C.C., Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, "Two-compartment stochastic single vehicle routing problems with simultaneous pickups and deliveries from N ordered customers", <i>Int. JI of Systems Science: Operations and Logistics</i>, <b>8(2)</b>, pp. 185-203, 2021.</p> <p>[4] Gialelis, N., <b>Karachalios, N.I.</b>, Stratis, I.G., "Regularity of nonvanishing-at infinity or at the boundary-solutions of the defocusing nonlinear Shrödinger equation", <i>Communications in Partial Differential Equations</i>, <b>46(2)</b>, pp. 233-281, 2021.</p> <p>[5] <b>Keremedis, K.</b>, Tachtsis, E., Wajch, E., "Several results on compact metrizable spaces in ZF", <i>Monatshefte fur Mathematik</i>, <b>196(1)</b>, pp. 67-102, 2021.</p> <p>[6] <b>Keremedis, K.</b>, Tachtsis, E., Wajch, E., "Second-countable compact Hausdorff spaces as remainders in ZF and two notions of infiniteness", <i>Topology and its applications</i>, <b>298</b>, 107732, 2021.</p> <p>[7] <b>Keremedis, K.</b>, Wajch, E., "Denumerable cellular families in ZF", <i>Portugaliae Mathematica</i>, <b>78(3-4)</b>, pp. 281-321, 2021.</p>

	<p>[8] Drosinou, O., Kavallaris, N.I., <b>Nikolopoulos, C.V.</b>, "A study of a nonlocal problem with Robin boundary conditions arising from technology", <i>Mathematical Methods in the Applied Sciences</i>, <b>44</b>(13), 10084-10120, 2021.</p> <p>[9] <b>Kostas D. Housiadas</b>, "An active body in a Phan-Thien &amp; Tanner fluid; the effect of the third polar squirmering mode", <i>Physics of Fluids</i>, <b>33</b>(4), 2021.</p> <p>[10] <b>Kostas D. Housiadas</b>, Jeremy P. Binagia, &amp; Eric S.G. Shaqfeh, "Squirmer with Swirl at Low Weissenberg Number", <i>Journal of Fluid Mechanics</i>, vol. 911, A16, 2021.</p> <p>[11] <b>Kostas D. Housiadas</b>, "The singularity of the UCM/Oldroyd-B models at a finite Weissenberg number, for the steady sphere translation with Navier slip on the sphere", <i>Journal of Non-Newtonian Fluid Mechanics</i>, <b>298</b>, 104679, 2021.</p>
2020	<p>[1] Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, Karamatsoukis, C.C., "A stochastic single vehicle routing problem with predefined sequence of customers and collection of two similar materials", <i>Methodology and Computing in Applied Probability</i>, <b>22</b>(4), pp. 1559-1582, 2020.</p> <p>[2] Karamatsoukis, C.C., Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, "Two-compartment stochastic single vehicle routing problems with simultaneous pickups and deliveries from N ordered customers", <i>Int. J. of Systems Science: Operations and Logistics</i>, 2020.</p> <p>[3] Abbas, G., Kevrekidis, P.G., Allen, J.E., Koukouloyannis, V., Frantzeskakis, D.J., <b>Karachalios, N.</b>, "Propagation of periodic wave trains along the magnetic field in a collision-free plasma", <i>Jnt J. of Physics A: Mathematical and Theoretical</i>, <b>53</b>(42), 2020.</p> <p>[4] <b>Karachalios, N.I.</b>, Kyriazopoulos, P., Vetas, K., "The Lefever-Lejeune nonlinear lattice: Convergence dynamics and the structure of equilibrium states", <i>Physica D: Nonlinear Phenomena</i>, <b>409</b>, 2020.</p> <p>[5] Allen, J.E., Frantzeskakis, D.J., <b>Karachalios, N.I.</b>, Kevrekidis, P.G., <b>Koukouloyannis, V.</b>, "Solitary and periodic waves in collisionless plasmas: The Adlam-Allen model revisited", <i>Physical Review E</i>, <b>102</b>(1), 2020.</p> <p>[6] Sullivan, J., Charalampidis, E.G., Cuevas-Maraver, J., Kevrekidis, P.G., <b>Karachalios, N.I.</b>, "Kuznetsov-Ma breather-like solutions in the Salerno model", <i>European Physical JI Plus</i>, <b>135</b>(5), 2020.</p> <p>[7] Fotopoulos, G., Frantzeskakis, D.J., <b>Karachalios, N.I.</b>, Kevrekidis, P.G., <b>Koukouloyannis, V.</b>, Vetas, K., "Extreme wave events for a nonlinear Schrödinger equation with linear damping and Gaussian driving", <i>Communications in Nonlinear Science and Numerical Simulation</i>, <b>82</b>, 2020.</p> <p>[8] Fotopoulos, G., <b>Karachalios, N.I.</b>, <b>Koukouloyannis, V.</b>, Vetas, K., "The linearly damped nonlinear Schrodinger equation with localized driving: spatiotemporal decay estimates and the emergence of extreme wave events", <i>Zeitschrift fur Angewandte Mathematik und Physik</i>, <b>71</b>(1), 2020.</p> <p>[9] <b>Keremedis, K.</b>, Wajch, E., "On Loeb and sequential spaces in ZF", <i>Topology and its Applications</i>, <b>280</b>, 107279, 2020.</p> <p>[10] <b>Keremedis, K.</b>, Tachtsis, E., "Cellularity of infinite Hausdorff spaces in ZF", <i>Topology and its Applications</i>, <b>274</b>, 107104, 2020.</p> <p>[11] <b>Keremedis, K.</b>, Wajch, E., "On densely complete metric spaces and extensions of uniformly continuous functions in ZF", <i>Int. J. of Convex Analysis</i>, <b>27</b>(40), 2020.</p> <p>[12] <b>Kofinas, C.E.</b>, <b>Metaftsis, V.</b>, Papistas, A.I., "IA-automorphisms and Lie algebras related to the McCool group", <i>Int. J. of Algebra</i>, <b>542</b>, pp. 162-189, 2020.</p>

	<p>[13] Muntean, A., <b>Nikolopoulos, C.</b>, “Colloidal transport in locally periodic evolving porous-media – An upscaling exercise”, <i>SIAM JI of Applied Mathematics</i>, <b>80</b>(1), pp. 448-475, 2020.</p> <p>[14] Kotis, K., Spiliotopoulos, D., <b>Papasalouros, A.</b>, “Intelligent Collaborative Authoring of Place-Based, Cross-Cultural and Media-Rich Experiences”, <i>Challenges</i>, <b>11</b>(1), 2020.</p> <p>[15] Lorenzo Fusi, <b>Kostas D. Housiadas</b>, &amp; George C. Georgiou, “Flow of a Bingham fluid in a pipe of variable radius”, <i>Journal of Non-Newtonian Fluid Mechanics</i>, <b>285</b>, 104393, 2020.</p> <p>[16] Jeremy P. Binagia, Ardella Phoa, <b>Kostas D. Housiadas</b>, &amp; Eric S.G. Shaqfeh, “Swimming with swirl in a viscoelastic fluid”, <i>Journal of Fluid Mechanics</i>, vol. 900, A4, 2020.</p> <p>[17] <b>Kostas D. Housiadas</b>, &amp; Roger I. Tanner, “The analytical solution of the Brinkman model for non-Brownian suspensions with Navier slip on the particles”, <i>International Journal of Multiphase Flow</i>, <b>129</b>, 103298, 2020.</p> <p>[18] <b>Kostas D. Housiadas</b>, “Viscoelastic fluids with pressure-dependent viscosity; exact analytical solutions and their singularities in unidirectional Poiseuille flows”, <i>International Journal of Engineering Science</i>, <b>147</b>, 2020.</p> <p>[19] Spyros D. Gkormpatsis, Evgenios A. Gryparis, <b>Kostas D. Housiadas</b>, &amp; Antony N. Beris, “Steady slip translation in a viscoelastic fluid with slip on the surface of the sphere”, <i>Journal of Non-Newtonian Fluid Mechanics</i>, <b>275</b>, 104217, 2020.</p>
2019	<p>[1] <b>Anoussis, M.</b>, Ozawa, N., Todorov, I.G., “Norms of vector functionals”, <i>Proceedings of the American Mathematical Society</i>, <b>147</b>(5), pp. 2057-2068, 2019.</p> <p>[2] <b>Anoussis, M.</b>, Katavolos, A., Todorov, I.G., “Bimodules over <math>VN(G)</math>, harmonic operators and the non-commutative Poisson boundary”, <i>Studia Mathematica</i>, <b>249</b>(2), pp. 193-213, 2019.</p> <p>[3] Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, “Stochastic single vehicle routing problem with ordered customers and partial fulfilment of demands”, <i>Int. JI of Systems Science: Operations and Logistics</i>, <b>6</b>(3), pp. 285-299, 2019.</p> <p>[4] Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, Karamatsoukis, C.C., “Optimal delivery of two similar products to N ordered customers with product preferences”, <i>Int J. of Production Economics</i>, <b>209</b>, pp. 194-204, 2019.</p> <p>[5] Fotopoulos, G., <b>Karachalios, N.I.</b>, Koukouloyannis, V., Vetas, K., “Collapse dynamics for the discrete nonlinear Schrödinger equation with gain and loss”, <i>Communications in Nonlinear Science and Numerical Simulation</i>, <b>72</b>, pp. 213-231, 2019.</p> <p>[6] <b>Karachalios, N.I.</b>, Kyriazopoulos, P., Vetas, K., “Excitation of Peregrine-Type waveforms from vanishing initial conditions in the presence of periodic forcing”, <i>Zeitschrift fur Naturforschung – Section A JI of Physical Sciences</i>, <b>74</b>(5), pp. 371-382, 2019.</p> <p>[7] Frantzeskakis, D.J., <b>Karachalios, N.I.</b>, Kevrekidis, P.G., Koukouloyannis, V., Vetas, K., “Dynamical transitions between equilibria in a dissipative Klein-Gordon lattice”, <i>JI of Mathematical Analysis and Applications</i>, <b>472</b>(1), pp. 546-576, 2019.</p> <p>[8] <b>Keremedis, K.</b>, “On lightly and countably compact spaces in ZF”, <i>Quaestiones Mathematicae</i>, <b>42</b>(5), pp. 579-592, 2019.</p> <p>[9] <b>Keremedis, K.</b>, Wajch, E., “Hausdorff compactifications in ZF”, <i>Topology and its Applications</i>, <b>258</b>, pp. 79-99, 2019.</p> <p>[10] <b>Keremedis, K.</b>, Ozel, C., Piekosz, A., Al Shumrani, M.A., Wajch, E., “Compact complement topologies and k-spaces”, <i>Filomat</i>, <b>33</b>(7), pp. 2061-2071, 2019.</p> <p>[11] <b>Magiatis, C.</b>, “Elementary operators on the algebra of adjointable operators on a Hilbert module”, <i>JI of Mathematical Analysis and Applications</i>, <b>475</b>(1), pp. 628-640, 2019.</p>

	<p>[12] <b>Nikolopoulos, C.V.</b>, "Macroscopic models for calcium carbonate corrosion due to sulfation. Variation of diffusion and volume expansion", <i>European J. of Applied Mathematics</i>, <b>30</b>(3), pp. 529-556, 2019.</p> <p>[13] Giannakas, F., <b>Papasalouros, A.</b>, Kambourakis G., Gritzalis, S., "A comprehensive cybersecurity learning platform for elementary education", <i>Information Security Journal</i>, <b>28</b>(3), pp. 81-106, 2019.</p> <p>[14] Cai, J., <b>Tsaprounis, K.</b>, "On strengthenings of superstrong cardinals", <i>New York Journal of Mathematics</i>, <b>25</b>, pp. 174-194, 2019.</p> <p>[15] Koufogiorgos, T., <b>Tsichlias, C.</b>, "Contact Metric Three-Manifolds with Constant Scalar Torsion", <i>Journal of the Australian Mathematical Society</i>, <b>107</b>(2), pp. 234-255, 2019.</p> <p>[16] <b>Kostas D. Housiadas</b> &amp; Antony N. Beris, "Variables viscosity effects for the flow around a sphere", <i>Physics of Fluids</i>, <b>31</b>(11), 2019.</p> <p>[17] <b>Kostas D. Housiadas</b>, "Steady sedimentation of a spherical particle under constant rotation", <i>Phys. Rev. Fluids</i>, <b>4</b> (10), 2019.</p> <p>[18] Evgenios A. Gryparis, Spyros D. Gkormpatsis, <b>Kostas D. Housiadas</b> &amp; Roger I. Tanner, "Viscoelastic planar elongational past an infinitely long cylinder", <i>Physics of Fluids</i>, <b>31</b>(3), 2019.</p>
2018	<p>[1] <b>Keremedis, K.</b>, "Two new equivalents of Lindelöf metric spaces", <i>Mathematical Logic Quarterly</i>, <b>64</b>(1-2), pp. 37-43, 2018.</p> <p>[2] <b>Keremedis, K.</b>, "On metric spaces where continuous real valued functions are uniformly continuous and related notions", <i>Topology and its Applications</i>, <b>238</b> pp. 45-53, 2018.</p> <p>[3] Herrich, H., Howard, P., <b>Keremedis, K.</b>, "On extensions of countable filterbases to ultrafilters and ultrafilter compactness", <i>Quaestiones Mathematicae</i>, <b>41</b>(2), pp. 213-225, 2018.</p> <p>[4] <b>Keremedis, K.</b>, "Clopen ultrafilters of <math>\omega</math> and the cardinality of the stone space <math>s(\omega)</math> in ZF", <i>Topology Proceedings</i>, <b>51</b>, pp. 1-17, 2018.</p> <p>[5] <b>Keremedis, K.</b>, "On pseudocompactness and related notions in ZF", <i>Commentationes Mathematicae Universitatis Carolinae</i>, <b>59</b>(3), pp. 371-381, 2018.</p> <p>[6] <b>Keremedis, K.</b>, "Second countable UC metric spaces are lebesgue in ZF", <i>Topology Proceedings</i>, <b>52</b>, pp. 73-93, 2018.</p> <p>[7] <b>Keremedis, K.</b>, "Some versions of second countability of metric spaces in ZF and their role to compactness", <i>Commentationes Mathematicae Universitatis Carolinae</i>, <b>59</b>(1), pp. 119-134, 2018.</p> <p>[8] <b>Lyberopoulos, A.N.</b>, "Quasilinear scalar field equations involving critical Sobolev exponents and potentials vanishing at infinity", <i>Proceedings of the Edinburgh Mathematical Society</i>, <b>61</b>(3), pp. 705-733, 2018.</p> <p>[9] <b>Metaftsis, V.</b>, Papistas, A.I., Sevaslidou, I., "Quotient groups of IA-automorphisms of a free group of rank 3", <i>Int. JI of Algebra and Computation</i>, <b>28</b>(1), pp. 115-131, 2018.</p> <p>[10] <b>Metaftsis, V.</b>, <b>Prassidis, S.</b>, "Topological rigidity of quasitoric manifolds", <i>Mathematica Scandinavica</i>, <b>122</b>(2), pp. 179-196, 2018.</p> <p>[11] Batakidis, P., <b>Papalexiou, N.</b> "W-algebras and Duflo isomorphism", <i>Journal of Algebra and its Applications</i>, <b>17</b>(3), 2018.</p> <p>[12] Giannakas, F., Kambourakis, G., <b>Papasalouros, A.</b>, Gritzalis, S., "A critical review of 13 years of mobile game-based learning", <i>Educational Technology Research and Development</i>, <b>66</b>(2), pp. 341-384, 2018.</p>

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