

LIST OF PUBLICATIONS, DEPARTMENT OF MATHEMATICS, UNIVERSITY OF THE AEGEAN
(2005-2023)

Publications in international peer-reviewed journals

2023	<p>[1] Nikolopoulos, C., Eden, M., Muntean, A., “Multiscale simulation of colloids ingressing porous layers with evolving internal structure: A computational study”, <i>GEM – Int. JI of Geomathematics</i>, 14(1), 1, 2023.</p> <p>[2] Housiadas, K.D., & Tsangaris, C., “Channel flow with variable geometry and Navier slip at the walls using high order lubrication theory”, <i>European JI of Mechanics B/Fluids</i>, 98, 20223.</p> <p>[3] Housiadas, K., “Improved convergence based on two-point Padé approximants: simple shear, uniaxial elongation, and flow past a sphere”, <i>Physics of Fluids</i>, 35(1), 2023.</p>
2022	<p>[1] Anoussis, M., Eleftherakis, G.K., Katavolos, A., “Idempotents of large norm and homomorphisms of Fourier algebras”, <i>Studia Math.</i>, 267(1), pp. 109-120, 2022.</p> <p>[2] Anoussis, M., Eleftherakis, G.K., Katavolos, A., “Synthetic properties of locally compact groups: preservation and transference”, <i>Monatshefte fur Mathematik</i>, IN PRESS, 2022.</p> <p>[3] Keremedis, K., Wajch, E., “Cuf products and cuf sums of (quasi-) metrizable spaces in ZF”, <i>Periodica Mathematica Hungaria</i>, 85(2), pp. 448-473, 2022.</p> <p>[4] Keremedis, K., Wajch, E., “Denumerable cellular families in ZF”, <i>Portugaliae Mathematica</i>, 78(3), pp. 281-321, 2022.</p> <p>[5] Keremedis, K., “k-spaces, sequential spaces and related topics in the absence of the axiom of choice”, <i>Topology and its Applications</i>, 318, 2022.</p> <p>[6] Keremedis, K., Tachtsis, E., “Stranger things about the cardinality of compact metric spaces without AC” <i>Acta Mathematica Hungarica</i>, 168(1), pp. 269-294, 2022.</p> <p>[7] Hall, E., Keremedis, K., “Independent families and some notions of finiteness”, <i>Archive for Mathematical Logic</i>, IN PRESS, 2022.</p> <p>[8] Keremedis, K., “On subcompactness and countable subcompactness of metrizable spaces in ZF”, <i>Commentationes Mathematicae Universitatis Carolinae</i>, 63(2), pp. 229-244, 2022.</p> <p>[9] Kofinas, C.E., “Automorphisms of free centre-by-metabelian groups of small rank”, <i>Archiv der Mathematik</i>, 119(4), pp. 337-350, 2022.</p> <p>[10] Malomed, B.A., Kevrekidis, P.G., Koukouloyannis, V., Whitaker, N., Frantzeskakis, D.J., “Interactions of solitary waves in the Adlam-Allen model”, <i>Physical Review E</i>, 106(3), 034209, 2022.</p> <p>[11] Liagkou, V., Nastou, P.E., Spirakis, P., Stamatiou, Y.C., “How hard is it to detect surveillance? A formal study of panopticons and their detectability problem”, <i>Cryptography</i>, 6(3), 42, 2022.</p> <p>[12] Eden, M., Nikolopoulos, C., 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>, 63, 2022.</p> <p>[13] Mageira, K., Pittou, D., Papasalouros, A., Kotis, K., Zangogianni, P., Daradoumis, A., “Educational AI chatbots for content and language integrated learning”, <i>Applied Sciences (Switzerland)</i>, 12(7), 3239, 2022.</p> <p>[14] Chatzis, D., Papasalouros, A., Kavallieratou, E., “Planning a robotic competition”, <i>Computer Applications in Engineering Education</i>, 30(4), pp. 1248-1263, 2022.</p>

	<p>[15] Hatzinikitas, A., "The non-commutative Robertson-Schrödinger uncertainty principle" <i>Quantum Studies: Mathematics and Foundations</i>, IN PRESS, 2022.</p> <p>[16] Gkormpatsis, S.D., Housiadas, K.D., 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>, 95 pp. 335-346, 2022.</p> <p>[17] Housiadas, K.D., Tsangaris, C., "High order lubrication theory in channels and tubes with variable geometry", <i>Acta Mechanica</i>, 233(10), pp. 4063-4081, 2022.</p>
2021	<p>[1] Anoussis, M., Felouzis, V., Tsaprounis, K., "Almost disjoint families and ultrapowers", <i>Journal of Logic & Analysis</i>, 13(4), pp. 1-13, 2021.</p> <p>[2] Diamantidis, S., 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>, 31(5), 053103, 2021.</p> <p>[3] Karamatsoukis C.C., Kyriakidis, E.G., Dimitrakos, T.D., "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>, 8(2), pp. 185-203, 2021.</p> <p>[4] Gialelis, N., Karachalios, N.I., Stratis, I.G., "Regularity of nonvanishing-at infinity or at the boundary-solutions of the defocusing nonlinear Schrödinger equation", <i>Communications in Partial Differential Equations</i>, 46(2), pp. 233-281, 2021.</p> <p>[5] Keremedis, K., Tachtsis, E., Wajch, E., "Several results on compact metrizable spaces in ZF", <i>Monatshefte fur Mathematik</i>, 196(1), pp. 67-102, 2021.</p> <p>[6] Keremedis, K., Tachtsis, E., Wajch, E., "Second-countable compact Hausdorff spaces as remainders in ZF and two notions of infiniteness", <i>Topology and its applications</i>, 298, 107732, 2021.</p> <p>[7] Keremedis, K., Wajch, E., "Denumerable cellular families in ZF", <i>Portugaliae Mathematica</i>, 78(3-4), pp. 281-321, 2021.</p> <p>[8] Drosinou, O., Kavallaris, N.I., Nikolopoulos, C.V., "A study of a nonlocal problem with Robin boundary conditions arising from technology", <i>Mathematical Methods in the Applied Sciences</i>, 44(13), 10084-10120, 2021.</p> <p>[9] Kostas D. Housiadas, "An active body in a Phan-Thien & Tanner fluid; the effect of the third polar squirming mode", <i>Physics of Fluids</i>, 33(4), 2021.</p> <p>[10] Kostas D. Housiadas, Jeremy P. Binagia, & Eric S.G. Shaqfeh, "Squirmers with Swirl at Low Weissenberg Number", <i>Journal of Fluid Mechanics</i>, vol. 911, A16, 2021.</p> <p>[11] Kostas D. Housiadas, "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>, 298, 104679, 2021.</p>
2020	<p>[1] Kyriakidis, E.G., Dimitrakos, T.D., 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>, 22(4), pp. 1559-1582, 2020.</p> <p>[2] Karamatsoukis, C.C., Kyriakidis, E.G., Dimitrakos, T.D., "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., Karachalios, N., "Propagation of periodic wave trains along the magnetic field in a collision-free plasma", <i>Jnt J. of Physics A: Mathematical and Theoretical</i>, 53(42), 2020.</p>

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	<p>[2] Anoussis, M., Katavolos, A., Todorov, I.G., “Bimodules over $VN(G)$, harmonic operators and the non-commutative Poisson boundary”, <i>Studia Mathematica</i>, 249(2), pp. 193-213, 2019.</p> <p>[3] Kyriakidis, E.G., Dimitrakos, T.D., “Stochastic single vehicle routing problem with ordered customers and partial fulfilment of demands”, <i>Int. JI of Systems Science: Operations and Logistics</i>, 6(3), pp. 285-299, 2019.</p> <p>[4] Kyriakidis, E.G., Dimitrakos, T.D., Karamatsoukis, C.C., “Optimal delivery of two similar products to N ordered customers with product preferences”, <i>Int J. of Production Economics</i>, 209, pp. 194-204, 2019.</p> <p>[5] Fotopoulos, G., Karachalios, N.I., 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>, 72, pp. 213-231, 2019.</p> <p>[6] Karachalios, N.I., 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>, 74(5), pp. 371-382, 2019.</p> <p>[7] Frantzeskakis, D.J., Karachalios, N.I., Kevrekidis, P.G., Koukouloyannis, V., Vetas, K., “Dynamical transitions between equilibria in a dissipative Klein-Gordon lattice”, <i>Jl of Mathematical Analysis and Applications</i>, 472(1), pp. 546-576, 2019.</p> <p>[8] Keremedis, K., “On lightly and countably compact spaces in ZF”, <i>Quaestiones Mathematicae</i>, 42(5), pp. 579-592, 2019.</p> <p>[9] Keremedis, K., Wajch, E., “Hausdorff compactifications in ZF”, <i>Topology and its Applications</i>, 258, pp. 79-99, 2019.</p> <p>[10] Keremedis, K., Ozel, C., Piekosz, A., Al Shumrani, M.A., Wajch, E., “Compact complement topologies and k-spaces”, <i>Filomat</i>, 33(7), pp. 2061-2071, 2019.</p> <p>[11] Magiatis, C., “Elementary operators on the algebra of adjointable operators on a Hlibert module”, <i>Jl of Mathematical Analysis and Applications</i>, 475(1), pp. 628-640, 2019.</p> <p>[12] Nikolopoulos, C.V., “Macroscopic models for calcium carbonate corrosion due to sulfation. Variation of diffusion and volume expansion”, <i>European J. of Applied Mathematics</i>, 30(3), pp. 529-556, 2019.</p> <p>[13] Giannakas, F., Papasalouros, A., Kambourakis G., Gritzalis, S., “A comprehensive cybersecurity learning platform for elementary education”, <i>Information Security Journal</i>, 28(3), pp. 81-106, 2019.</p> <p>[14] Cai, J., Tsaprounis, K., “On strengthenings of superstrong cardinals”, <i>New York Journal of Mathematics</i>, 25, pp. 174-194, 2019.</p> <p>[15] Koufogiorgos, T., Tsichlias, C., “Contact Metric Three-Manifolds with Constant Scalar Torsion”, <i>Journal of the Australian Mathematical Society</i>, 107(2), pp. 234-255, 2019.</p> <p>[16] Kostas D. Housiadas & Antony N. Beris, “Variables viscosity effects for the flow around a sphere”, <i>Physics of Fluids</i>, 31(11), 2019.</p> <p>[17] Kostas D. Housiadas, “Steady sedimentation of a spherical particle under constant rotation”, <i>Phys. Rev. Fluids</i>, 4 (10), 2019.</p> <p>[18] Evgenios A. Gryparis, Spyros D. Gkormpatsis, Kostas D. Housiadas & Roger I. Tanner, “Viscoelastic planar elongational past an infinitely long cylinder”, <i>Physics of Fluids</i>, 31(3), 2019.</p>
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- [6] **Keremedis, K.**, “Second countable UC metric spaces are lebesgue in ZF”, *Topology Proceedings*, **52**, pp. 73-93, 2018.
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- [10] **Metaftsis, V.**, **Prassidis, S.**, “Topological rigidity of quasitoric manifolds”, *Mathematica Scandinavica*, **122**(2), pp. 179-196, 2018.
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