

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

Publications in international peer-reviewed journals

2022	<p>[1] Keremedis, K., Wajch, E., “Cuf products and cuf sums of (quasi-) metrizable spaces in ZF”, <i>Periodica Mathematica Hungaria</i>, IN PRESS, 2022.</p> <p>[2] Keremedis, K., Wajch, E., “Denumerable cellular families in ZF”, <i>Portugaliae Mathematica</i>, 78(3), pp. 281-321, 2022.</p> <p>[3] 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>[4] 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>[5] Chatzis, D., Papasalouros, A., Kavallieratou, E., “Planning a robotic competition”, <i>Computer Applications in Engineering Education</i>, IN PRESS, 2022.</p> <p>[6] 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>[7] Housiadas, K.D., Tsangaris, C., “High order lubrication theory in channels and tubes with variable geometry”, to appear in <i>Acta Mechanica</i>, 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 Shrödinger 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>

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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>Int J. of Physics A: Mathematical and Theoretical</i>, 53(42), 2020.</p> <p>[4] Karachalios, N.I., Kyriazopoulos, P., Vetas, K., "The Lefever-Lejeune nonlinear lattice: Convergence dynamics and the structure of equilibrium states", <i>Physica D: Nonlinear Phenomena</i>, 409, 2020.</p> <p>[5] Allen, J.E., Frantzeskakis, D.J., Karachalios, N.I., Kevrekidis, P.G., Koukouloyannis, V., "Solitary and periodic waves in collisionless plasmas: The Adlam-Allen model revisited", <i>Physical Review E</i>, 102(1), 2020.</p> <p>[6] Sullivan, J., Charalampidis, E.G., Cuevas-Maraver, J., Kevrekidis, P.G., Karachalios, N.I., "Kuznetsov-Ma breather-like solutions in the Salerno model", <i>European Physical J Plus</i>, 135(5), 2020.</p> <p>[7] Fotopoulos, G., Frantzeskakis, D.J., Karachalios, N.I., Kevrekidis, P.G., Koukouloyannis, V., 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>, 82, 2020.</p> <p>[8] Fotopoulos, G., Karachalios, N.I., Koukouloyannis, V., Vetas, K., "The linearly damped nonlinear Schrödinger equation with localized driving: spatiotemporal decay estimates and the emergence of extreme wave events", <i>Zeitschrift für Angewandte Mathematik und Physik</i>, 71(1), 2020.</p> <p>[9] Keremedis, K., Wajch, E., "On Loeb and sequential spaces in ZF", <i>Topology and its Applications</i>, 280, 107279, 2020.</p> <p>[10] Keremedis, K., Tachtsis, E., "Cellularity of infinite Hausdorff spaces in ZF", <i>Topology and its Applications</i>, 274, 107104, 2020.</p> <p>[11] Keremedis, K., Wajch, E., "On densely complete metric spaces and extensions of uniformly continuous functions in ZF", <i>Int. J. of Convex Analysis</i>, 27(40), 2020.</p> <p>[12] Kofinas, C.E., Metaftsis, V., Papistas, A.I., "IA-automorphisms and Lie algebras related to the McCool group", <i>Int. J. of Algebra</i>, 542, pp. 162-189, 2020.</p> <p>[13] Muntean, A., Nikolopoulos, C., "Colloidal transport in locally periodic evolving porous-media – An upscaling exercise", <i>SIAM J of Applied Mathematics</i>, 80(1), pp. 448-475, 2020.</p> <p>[14] Kotis, K., Spiliotopoulos, D., Papasalouros, A., "Intelligent Collaborative Authoring of Place-Based, Cross-Cultural and Media-Rich Experiences", <i>Challenges</i>, 11(1), 2020.</p> <p>[15] Lorenzo Fusi, Kostas D. Housiadas, & George C. Georgiou, "Flow of a Bingham fluid in a pipe of variable radius", <i>Journal of Non-Newtonian Fluid Mechanics</i>, 285, 104393, 2020.</p>

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2019	<p>[1] Anoussis, M., Ozawa, N., Todorov, I.G., "Norms of vector functionals", <i>Proceedings of the American Mathematical Society</i>, 147(5), pp. 2057-2068, 2019.</p> <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. Gkorpatsis, Kostas D. Housiadas & Roger I. Tanner, "Viscoelastic planar elongational past an infinitely long cylinder", <i>Physics of Fluids</i>, 31(3), 2019.</p>
2018	<p>[1] Keremedis, K., "Two new equivalents of Lindelöf metric spaces", <i>Mathematical Logic Quarterly</i>, 64(1-2), pp. 37-43, 2018.</p> <p>[2] Keremedis, K., "On metric spaces where continuous real valued functions are uniformly continuous and related notions", <i>Topology and its Applications</i>, 238 pp. 45-53, 2018.</p> <p>[3] Herrich, H., Howard, P., Keremedis, K., "On extensions of countable filterbases to ultrafilters and ultrafilter compactness", <i>Quaestiones Mathematicae</i>, 41(2), pp. 213-225, 2018.</p> <p>[4] Keremedis, K., "Clopen ultrafilters of ω and the cardinality of the stone space $s(\omega)$ in ZF", <i>Topology Proceedings</i>, 51, pp. 1-17, 2018.</p> <p>[5] Keremedis, K., "On pseudocompactness and related notions in ZF", <i>Commentationes Mathematicae Universitatis Carolinae</i>, 59(3), pp. 371-381, 2018.</p> <p>[6] Keremedis, K., "Second countable UC metric spaces are lebesgue in ZF", <i>Topology Proceedings</i>, 52, pp. 73-93, 2018.</p> <p>[7] Keremedis, K., "Some versions of second countability of metric spaces in ZF and their role to compactness", <i>Commentationes Mathematicae Universitatis Carolinae</i>, 59(1), pp. 119-134, 2018.</p> <p>[8] Lyberopoulos, A.N., "Quasilinear scalar field equations involving critical Sobolev exponents and potentials vanishing at infinity", <i>Proceedings of the Edinburgh Mathematical Society</i>, 61(3), pp. 705-733, 2018.</p> <p>[9] Metaftsis, V., 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>, 28(1), pp. 115-131, 2018.</p> <p>[10] Metaftsis, V., Prassidis, S., "Topological rigidity of quasitoric manifolds", <i>Mathematica Scandinavica</i>, 122(2), pp. 179-196, 2018.</p> <p>[11] Batakidis, P., Papalexiou, N. "W-algebras and Duflo isomorphism", <i>Journal of Algebra and its Applications</i>, 17(3), 2018.</p> <p>[12] Giannakas, F., Kambourakis, G., Papasalouros, A., Gritzalis, S., "A critical review of 13 years of mobile game-based learning", <i>Educational Technology Research and Development</i>, 66(2), pp. 341-384, 2018.</p> <p>[13] Charitos, C., Papadoperakis, I., Tsapogas, G., "On Riemannian surfaces with conical singularities", <i>Rocky Mountain JI of Mathematics</i>, 48(5), pp. 1455-1474, 2018.</p> <p>[14] Tsaprounis, K., "ON $C^{(\omega)}$-Extendible Cardinals", <i>Journals of Symbolic Logic</i>, 83(3), pp. 1112-1131, 2018.</p> <p>[15] Asperó, D., Tsaprounis, K., "Long Reals", <i>Journal of Logic and Analysis</i>, 10, 2018.</p>

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