

Giorgi Baghaturia

Published Works

1. Giorgi Baghaturia, Marina Menteshashvili. *Application of General Integral of Quasi-linear Equation to Solving of Non-linear Cauchy Problem*. Bulletin TICMI, 2023. Volume 27, N. 2, 2023, pp 59-65 (SJR)
2. Giorgi Baghaturia, Marina Menteshashvili. *Cauchy Problem with Closed Support of Data for Quasi-linear Equation of Mixed Type*. Bulletin of the Georgian Academy of Sciences. Vol. 17, No. 1, 2023. (SJR)
3. Baghaturia Giorgi, Menteshashvili Marine. *On an Algorithm of Numerical Solution for Non-linear Goursat Problem*. XIII Annual International Meeting of the Georgian Mathematical Union. Batumi, 2023, Book of Abstracts.
4. G. Baghaturia, M. Menteshashvili. „On a Cauchy problem with closed support of data“. XII Annual International Meeting of the Georgian Mechanical Union. Batumi, 24.08.2022-26.08.2022. Book of Abstracts, p. 44.
5. G. Baghaturia, M. Menteshashvili. „On a Cauchy Problem with Closed Support of Data and its Discrete Analogue“. XII International Conference of the Georgian Mathematical Union, Batumi, August 29 - September 3, 2022. Book of Abstracts, p. 61. <http://gmu.gtu.ge/Batumi2022/>
6. Z.Peradzynski, G. Baghaturia, **Double Waves and Yanenko Equation**. Analytical and Numerical Methods in Differential Equations . A virtual conference on occasion of the 100th birthday of Academician Nikolai N. Yanenko. Book of abstracts. 23 August 2021 — 26 August 2021. <https://math.sut.ac.th/Mathematics/Home>
7. Giorgi Baghaturia. Some problems for partial differential equations of mixed type. 9th international workshop on Surface engineering and 5th international workshop on applied and sustainable engineering, 20.06.2021-26.06.2021, Koszalin University of Technology, Poland. workshop.tu.koszalin.pl/2021/index.html

8. Giorgi Baghaturia, Marina Menteshashvili, Inverse problems for the second order equations of mixed type. Book of abstracts. XII Annual International Meeting of the Georgian Mechanical Union 9-11.09.2021, Kutaisi, 2021.
9. Giorgi Baghaturia, Marina Menteshashvili, Inverse Problems and Their Discrete Analogs for the Second Order Quasi-Linear Equations of Mixed Type . Book of abstracts. XI Annual International Conference of the Georgian Mathematical Union 23-28.08.2021, Batumi, 2021.
10. G. Baghaturia, M.Menteshashvili. **Direct and inverse Cauchy problems for second-order equations of mixed type.** Book of abstracts. XI Annual International Meeting of the Georgian Mechanical Union 27- 29.08.2020, Batumi, 2020.
11. G. Baghaturia, M.Menteshashvili. *A general integral of a quasilinear equation and application to solving a nonlinear characteristic problem.* Siberian Mathematical Journal, 2019, Vol. 60, No. 6, pp. 940–951. ISSN 0037–4466, DOI: 10.1134/S0037446619060028 , New York, USA Pleiades Publishing, Inc. (Russian Text published in Sibirskii Matematicheskii Zhurnal, 2019, Vol. 60, No. 6, pp. 1209–1222). **Impact Factor.**
12. G. Baghaturia, M.Menteshashvili. **General Integrals and Inverse Problems for the Second Order Quasi-Linear Equations of Mixed Type.** Book of abstracts. 16th Conference “Mathematics in Technical and Natural Sciences” Kościelisko, 30th June - 5th July, 2019 http://www.mtns.agh.edu.pl/Agenda_16thMTNS.pdf
13. G. Baghaturia, Z.Peradzynski. Involutive exterior Differential Systems and Nonlinear superposition of Solutions. Book of Abstracts. 16th Conference “Mathematics in Technical and Natural Sciences” Kościelisko, 30th June - 5th July, 2019 http://www.mtns.agh.edu.pl/Agenda_16thMTNS.pdf
14. Guram Baghaturia, Giorgi Baghaturia. Non-stationary anti-plane problem of crack propagation in elastic strip. Book of abstracts. IX Annual International Conference of the Georgian Mechanical Union, 11-13 October, 2018, Kutaisi, Georgia.
15. G. Baghaturia, M.Menteshashvili . Non-classical problems for second order quasi-linear equations with rectilinear characteristics. Book of abstracts. 9th Conference of Georgian Mathematical Union, 3-7 September, 2018, Batumi, Georgia.

16. G. Baghaturia, M.Menteshashvili. The Numerical Algorithm for the Quasi-linear Differential Equation of Mixed Type . *Information and Computer Technology, Modeling and Control*,2017 <https://novapublishers.com/shop/information-and-computer-technology-modeling-and-control-proceedings-of-the-international-scientific-conference-devoted-to-the-85th-anniversary-of-academician-i-v-prangishvili/>
17. Baghaturia Giorgi, Menteshashvili Marina. Non-linear versions of Characteristic Problems for the Second Order PDEs of Mixed Type. *Book of Abstracts, VIII International Conference of the Georgian Mathematical Union, 2017. Batumi, p. 62.*
18. G. Baghaturia, M.Menteshashvili. The General Integrals of Quasi-linear equations and domains of propagation of the solutions of non-linear Cauchy Problems. *Book of Abstracts, VII International Joint Conference of the Georgian Mathematical Union and Georgian Mechanical Union "Continuum Mechanics and Related Problems of Analysis ", Batumi,2016, p.88.*
19. Baghaturia G. Menteshshvili M. Numerical Algorithms for a Solution of Quasi-Linear Second Order Partial Differential Equation of Mixed Type. International Conference " Computer science and information technologies", Proceedings. 2015, Yerevan, Armenia, p. 267-269.
20. Baghaturia G. Menteshshvili . The Numerical Algorithm for the Quasi-linear Differential Equation of Mixed Type. The International Scientific Conference Dedicated to Academician I.Prangishvili's 85th Anniversary "Information and Computer Technologies, Modelling, Control" , Proceedings , pp. 402-405, 2015.
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24. J.Gvazava. G.Baghaturia, M.Menteshashvili. *Cauchy problem for a quasi-linear hyperbolic equation with closed support of data*. Journal of Mathematical Sciences (Springer), vol.193, issue 3 (2013), page 364-368.

25. J.Gvazava, R.Bitsadze, G.Baghaturia, M.Menteshashvili. *On Characteristic Problems with a non-compact Support of Data*. Proceedings of A.Razmadze Institute of Mathematics (Tbilisi), 162, 2013, pages 130-135.
26. Jondo Gvazava, Giorgi Baghaturia, Marine Menteshashvili. *The Curves of Strong Parabolic Degeneracy as a Part of Boundaries of Domains of Propagation for Some Non-linear Waves*. "Several Problems of Applied Mathematics and Mechanics" Nova science publishers, inc. 2012, pp 113-121.
27. Guram Baghaturia, Giorgi Baghaturia. *The Anti-plane problem of propagation of crack in compound elastic strip*. "Basic paradigms in science and technology development for the 21st century", Transactions, vol. II, pp.142-146, 2012.
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