1. **Publications ( Dosiev=Dosiyev)**

**Submitted Papers**

* E. A. Volkov and **Adiguzel A. Dosiyev,** On the solution of a multilevel nonlocal problem, Submitted to **Mediterranean Journal of Mathematics**  2015 **(SCIE)**
* **Adiguzel A. Dosiyev** and Emine Celiker, The block-hexagonal grid method for the solution of the mixed boundary value problem of Laplace’s equation on staircase polygons, Submitted to **Applied Mathematics and Computation,** Elsevier, 2015  **(SCIE)**

**Published Papers inside of the SCI and SCIE list**

1. **Adiguzel A. Dosiyev** and Emine Celiker, A fourth order Block-Hexagonal Grid approximation for the solution of Laplace’s equation with sigularities, **Advances in Difference Equations, (**2015) 2015:59 DOI 10.1186/s13662-015-0407-9. **(SCIE)**
2. **Adiguzel A. Dosiyev** and Hamid M.M. Sadeghi, A fourth order approximation of the first and pure second derivatives of the Laplace equation on a rectangle,  **Advances in Difference Equations,** (2015) 2015:67 DOI 10.1186/s13662-015-0408-8. **(SCIE)**
3. **Adiguzel A. Dosiyev** and Emine Celiker, Approximation on the hexagonal grid of the Dirichlet problem for Laplace’s equation**, Boundary Value Problems** 2014 (1), (2014):73. **(SCIE)**
4. **A.A. Dosiyev,** S.C. Buranay, One-block method for computing the generalized stress intensity factors for Laplace’s equation on a square with a slit and on an L-shaped domain, **Journal of Computational and Applied Mathematics** 289 (2015) 400-411. **(SCI)**
5. **A.A. Dosiyev,** The block-grid method for the approximationof the pure second order derivatives for the solution of Laplace’s equation on a staircase polygon, **Journal of Computational and Applied Mathematics** 259 (2014) 14-23. **(SCI)**
6. E.A. Volkov, **A.A. Dosiyev,** S.C. Buranay, On the solution of a nonlocal problem**, Computers and Mathematics with Applications** 66 (2014) 330-338**. (SCI)**
7. **Dosiyev A.A.,** Buranay Cival S, A fourth order block-grid method for solving Laplace’s equation on a staircase polygon with boundary functions in **,** Special Issue “Well-Posed and Ill-Posed Boundary Value Problems for PDE 2013” in Abstract and Applied Analysis, Volume 2013, Article ID : 864865, 11 pages, <http://dx>.doi.org/10.1155/2013/864865**. (SCIE)**
8. **A.A. Dosiyev,** S.C. Buranay, D. Subasi, The highly accurate block-grid method in solving Laplace’s equation for nonanalytic boundary condition with corner singularity, **Computers and Mathematics with Applications**, Vol. 64 ( 2012) 616-632 **. (SCI)**
9. E.A. Volkov,  **A.A. Dosiyev,** A highly accurate homogeneous scheme for solving the Laplace equation on a rectangular parallelepiped with boundary values in **, Comput. Math. Math. Phys. Vol.**52, No. 6 (2012) 879-886. (SCIE)
10. **Dosiyev, Adiguzel A.,** New properties of 9-point finite difference solution of the Laplace equation, **Mediterranean Journal of Mathematics,** Vol. 8, Issue 3 (2011) 451-462. **(SCIE)**
11. **Dosiyev A.A**., Mazhar Zeka, Buranay Cival, S, Block method for problems on L-shaped domains, **Journal of Computational and Applied Mathematics**, Vol. **235** ( 2010) 805-816, DOI : 10.1016 /j.cam.2010.07.007**. (SCI)**
12. **Dosiyev A.A**., Buranay Cival S., Subasi D, The block-grid method for solving Laplace’s equation on polygons with nonanalytic boundary conditions, **Boundary Value Problems** ( 2010), 22 pages, DOI : 10.1155 /2010/468594. **(SCIE)**
13. **Dosiyev A.A.,** Buranay Cival, S. , On the order of maximum error of the finite difference solutions to Laplace’s equation on rectangles. ***ANZIAM J*.** 51 ( 2009), Issue:1, pp. 141, DOI: 10.1017/S1446181109000327. **(SCIE)**
14. **Dosiyev A.A.,** Buranay Cival, S., On solving the cracked beam problem by a block method, **Communications in Numerical Methods in Engineering*,*** 24 ( 2008)  1277-1289**. (SCIE)**
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22. **A.A. Dosiev** and Ja. D. Mamedov. Application of the grid method to the solution of a mixed boundary value problem for elliptic equation in the presence of singularities, **Demonstratio Math.** Vol.12 (1979) 875-888 **(SCIE)**
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2. **A.A. Dosiyev**. On the Maximum Error in the Solution of Laplace Equation by Finite Difference Method**, International Journal of Pure and Applied Mathematics**, Vol. 7, No. 2 (2003) 229-241.
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2. **Dosiyev, A.A.,** Buranay Cival, S. : On solving the cracked beam problem by a block method, **5th GRACM International Congress on Computational Mechanics Limasol, Cyprus, Proceedings., 2, 29 June-1 July (2005), pp. 887-893**
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4. **A.A. Dosiyev** and A.Y. Aliev On the approximate method in solving a non local problem for the Laplace equation**, Proceedings of the International Conference on “Current problems of fundamental sciences “, Moscow, MGTY, 1991, Vol.2, pp. 115-117**
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