Paweł Dłotko
Lista publikacji
z dnia 31 października 2013

Publikacje w czasopismach

1. **P. Dłotko,** R. Specogna, F. Trevisan, 2009, **Automatic generation of cuts on large-sized meshes for $T-\Omega$ geometric eddy-current formulation**, Computer Methods in Applied Mechanics and Engineering, 198: 3765–3781.

2. **P. Dłotko**, R. Specogna, F. Trevisan, 2010, **Voltage and current sources for massive conductors suitable with the $A-\chi$ Geometric Formulation**, IEEE Transactions on Magnetics, 46(8): 3069-3072.

3. **P. Dłotko**, R. Specogna, 2010, **Efficient cohomology computation for electromagnetic modeling**, CMES: Computer Modeling in Engineering & Sciences, 60(3): 247-278.

4. **P. Dłotko**, R. Specogna, 2010, **Critical analysis of spanning tree techniques**, SIAM J. Numer. Anal., 48(4): 1601-1624.

5. **P. Dłotko**, T. Kaczynski, M. Mrozek, Th. Wanner, 2011, **Coreduction Homology Algorithm for Regular CW-Complexes**, Discrete & Computational Geometry, 46(2): 361-388.

6. **P. Dłotko**, R. Specogna, 2011, **Efficient generalized source field computation for h-oriented magnetostatic formulations**, European Physical Journal Applied Physics, 53(2).

7. **P. Dłotko**, W. G. Kropatsch, H. Wagner, 2011, **Characterizing Obstacle-Avoiding Paths Using Cohomology Theory**, Lecture Notes in Computer Science, 6854: 310-317.

8. **P. Dłotko**, M. Juda, M. Mrozek, and R. Ghrist, 2012, **Distributed computation of coverage in sensor networks by homological methods**, Applicable Algebra ne Engineering, Communication and Computing, Special Issue on Compuer Algebra in Algebraic Topology and its Applications, 23(1):29-58.

9. **P. Dłotko**, 2012, **A fast algorithm to compute cohomology group generators of orientable 2-manifolds**, Pattern Recognition Letters 33:1468-1476.

10. H. Wagner, **P. Dłotko**, and M. Mrozek, 2012, **Computational Topology in Text Mining**, Computational Topology in Image Context, Lecture Notes in Computer Science, 7309:68 - 79.

11. P. Brendel, **P. Dłotko**, M. Mrozek, N. Żelazna, 2012, **Homology Computations via Acyclic Subspace**, Computational Topology in Image Context, Lecture Notes in Computer Science, 7309:117-127.

12. **P. Dłotko**, R. Specogna, 2013, **Cohomology in electromagnetic modeling**, Communications in Computational Physics (CiCP), 14(1):48-76.

13. **P. Dłotko**, R. Specogna, 2013, **A novel technique for cohomology computations in engineering practice**, Computer Methods in Applied Mechanics and Engineering, 253:530-542.

14. **P. Dłotko**, R. Specogna, 2013, **Physics inspired algorithms for (co)homology computations of three-dimensional combinatorial manifolds with boundary**, Computer Physics Communications, 184(10):2257-2266.

15. G. S. Cochran, Th. Wanner, **Paweł Dłotko**, 2013, **A randomized subdivision algorithm for determining the topology of nodal sets**, SIAM Journal on Scientific Computing, 35(5):1034–B1054.

16. **P. Dlotko**, H. Wagner, 2013, **Simplification of complexes for persistent homology computations**, Homotopy, Homology and Applications, przyjęte do druku.