



Curriculum vitae

Informații personale

Prenume /Nume	OVIDIU DĂESCU
Titlul științific	Associate Professor
Afilieră instituțională	Department of Computer Science Erik Jonsson School of Engineering and Computer Science The University of Texas at Dallas
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Prestigiul științific	
Educație și formare	<ul style="list-style-type: none"> PhD, May 2000, University of Notre Dame, USA, Computer Science and Engineering MS, May 1997, University of Notre Dame, USA, Computer Science and Engineering MS, June 1991, Technical Military Academy, Romania, Computer Science and Automation.
Experiența profesională	<ul style="list-style-type: none"> Assistant Department Head, since Fall 2009, Department of Computer Science, University of Texas at Dallas, Dallas, TX, USA Associate Professor, since Fall 2006, Department of Computer Science, University of Texas at Dallas, Dallas, TX, USA 2000-2006 Assistant Professor, 2000-2006, Department of Computer Science, University of Texas at Dallas.
Domenii de cercetare	Discrete and computational geometry, biomedical computing, algorithm engineering, GPU algorithms, security
Lucrări publicate (selecții)	<p><u>Books edited or co-edited :</u></p> <ul style="list-style-type: none"> International Conference on Combinatorial Optimization and Applications, Part 1, Springer 2010, ISBN 978-3-642-17457-5. International Conference on Biocomputation, Bioinformatics, and Biomedical Technologies, IEEE Computer Society 2008, ISBN 978-0-7695-3191-5. <p><u>Refereed Journal Publications:</u></p> <ul style="list-style-type: none"> "Line facility location in weighted regions", Y.K. Cheung and O. Daescu, <i>Journal of Combinatorial Optimization</i>, 22:1 (2011) 52-70. "The Voronoi diagram for graphs and its application in the sickle cell disease research", O. Daescu, A. Kurdia, M. Zivanik and S. Goodman <i>Journal of Computational Science</i>, In Press, available online November 2011. "Guarding a terrain by two watchtowers", P.K. Agarwal, S. Bereg, O. Daescu, S. Ntafos, M. Sharir and B. Zhu, <i>Algorithmica</i>, Vol. 58, No. 2, pp. 352-390, 2010. "Frechet distance problems in weighted regions", Y.K. Cheung and O. Daescu, <i>Discrete Mathematics, Algorithms and Applications</i>, Vol. 2, No. 2, pp. 161-179, 2010. "Towards an optimal algorithm for recognizing laman graphs", O. Daescu and A. Kurdia, <i>Journal of Graph Algorithms</i>, Vol. 13, No. 2, pp. 219-232, 2009. "Minimum separation in weighted subdivisions", O. Daescu and J.D. Palmer, <i>Int. Journal of Computational Geometry & Applications</i>, Vol. 19, No. 1, pp. 33-57, 2009. "Farthest segment and extremal triangles spanned by points in R^3", S. Bitner and O. Daescu, <i>Information Processing Letters</i>, Vol. 109, No. 20, pp. 1167-1171, 2009. "Line facility location in weighted regions", Y.K. Cheung and O. Daescu, <i>Journal of Combinatorial Optimization</i>, online first October 27, 2009, 19 pages. "Parallel optimal weighted links", O. Daescu, Y.K. Cheung and J.D. Palmer, <i>Transactions on Computational Science</i>, Vol. III, pp. 66-81, 2009. <p><u>Refereed Conference Publications:</u></p> <ul style="list-style-type: none"> "Optimal delivery of volumetric modulated arc therapy (VMAT) for moving target", S. Behera, O. Daescu and L. Papiez, Proc. of the Workshop on Cancer Informatics, IEEE Int. Conference on Bioinformatics and Biomedicine, (2011) 297-304. "Rigid region pairwise sequence alignment", M. Zivanik, O. Daescu and A. Kurdia, Proc. of the Workshop on Cancer Informatics, IEEE Int. Conference on Bioinformatics and

	<p>Biomedicine, (2011) 319-326.</p> <ul style="list-style-type: none"> • “Largest area convex hull of axis-aligned squares based on imprecise data”, O. Daescu, W. Ju, J. Luo and B. Zhu, Proc. of the 17th Annual Int. Computing and Combinatorics Conference, (2011) 192-203. • “Kinetic red-blue minimum separating circle”, Y.K. Cheung, O. Daescu and M. Zivanik, Proc. of the 5th Annual Int. Conference on Combinatorial Optimization and Applications, (2011) 448-463. • “Red-blue minimum separating circle with a moving blue point”, Y.K. Cheung, O. Daescu and M. Zivanik, Proc. of the XIV Spanish Meeting on Computational Geometry, (2011) 229-232. • “Face It: 3D Facial Reconstruction from a Single 2D Image for Games and Simulations”, S. Kirtzic and O. Daescu, Proc. of the 2011 Int. Conference on Cyberworlds, (2011) 244-248. • “NP-Completeness of spreading colored points”, O. Daescu, W. Ju, J. Luo, Proc. 4th International Conference on Combinatorial Optimization and Applications, pp. 41-50, 2010. • “Visiting a sequence of points with a bevel-tip needle”, S. Bitner, Y.K. Cheung, A.F. Cook IV, O. Daescu, A. Kurdia and C. Wenk, Proc. 9th Latin American Theoretical Informatics Symposium, pp. 492-502, 2010. • “Minimum separating circle for bichromatic points in the plane”, S. Bitner, Y.K. Cheung and O. Daescu, Proc. 7th Int. Symposium on Voronoi Diagrams in Science and Engineering, pp. 50-55, 2010. • “Applying parallel design techniques to template matching with GPUs”, R.F. Anderson, J.S. Kirtzic and O. Daescu, Proc. 9th Int. conference on High Performance Computing for Computational Science, pp. 456-468, 2010. • “Frechet distance problems in weighted regions”, Y.K. Cheung and O. Daescu, Proc. 20th Int. Symposium on Algorithms and Computation, pp. 97-111, 2009. • “Polygonal chain simplification for flight simulation systems”, O. Daescu and A. Kurdia, Proc. of the Spring Simulation Multiconference, Military Modeling and Simulation Symposium, pp.11-17, 2009. • “Line segment facility location in weighted subdivisions”, Y.K. Cheung and O. Daescu, Proc. 5th Int. Conference on Algorithmic Aspects in Information and Management, pp. 100-113, 2009. • “MATISSE: a large scale multi-agent system for simulating traffic safety scenarios”, R.Z. Wenkster, T. Steel, O. Daescu, J. Hansen and P. Boyraz, Proc. of the 4th Biennial workshop on DSP for In-Vehicle Systems and Safety, pp. 11-14, 2009. • “Towards an optimal algorithm for recognizing planar graphs”, O. Daescu and A. Kurdia, Proc. 42nd Hawaii Int. Conference on Systems Science, pp. 1-10, 2009.
<p>Premii și distincții</p>	<ul style="list-style-type: none"> • Game Engineering Conference Certificate of Appreciation, 2009. • Computational Geometry: Theory and Applications Certificate of Recognition, 2008.
<p>Experiența anterioară în organizarea de evenimente similare</p>	
<ul style="list-style-type: none"> • Invited member for Panel 1, Mathematics and Natural Sciences, Informatics Group, of the National Council for Recognition of University Titles and Diplomas, Ministry of Education and Research, Romania, since March 2011. • Board member of the Center for Graduate Education Initiative, Japan Advanced Institute of Science and Technology, since May 2010. • Member of the editorial board, Journal of Experimental Biology and Medicine • Guest editor for Theoretical Computer Science, 2011 • Guest editor for Journal of Combinatorial Optimization, 2011. • Program committee co-chair, the 4th Annual Int. Conference on Combinatorial Optimization and Applications, Hawaii, USA, December 18-20, 2010. • Co-organizer and co-chair of the Int. Workshop on Computational Geometry and Applications, June 2011, May 2003. • Member, Program Committee: Workshop on Algorithms and Computation, February 18-20, 2011; Int. Symp. on Voronoi Diagrams, 2006-2009, 2011; Int. Workshop on Comp. Geom. and App., 2002-2011; 1st IEEE Int. Conference on Computational Advances in Bio and Medical Sciences, 2011; 4th Int. Frontiers of Algorithmics Workshop, 2010; 6th Int. Conference on Algorithmic Aspects in Information and Management, 2010; Fall Workshop on Comp. Geometry, 2010; Int. Conference on Wireless and Mobile Communications, 2006, 2007; Int. Multi-Conference on Computing in the Global Information Technology, 2006, 2007. 	