

Steven P. Bitner

CONTACT

INFORMATION

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RESEARCH INTERESTS

Computational geometry and algorithm optimization.

OTHER INTERESTS

Web programming and the U.S. Navy Reserves.

EDUCATION

Ph.D., Computer Science, August 2010
Under supervision of Dr. Ovidiu Daescu
University of Texas at Dallas, Dallas, TX
Dissertation title: "Proximity Problems in Two and Three Dimensional Euclidean Space"

M.S., Computer Science, 2008
Traditional track
University of Texas at Dallas, Dallas, TX

B.S., Computer Science, 2006
Department of Computer Science
Texas State University - San Marcos, San Marcos, TX, USA

WORK

EXPERIENCE

Operations Research Analyst **Sep 2010 to Present**
Responsible for developing, improving and efficiently implementing methodologies in the US Army's Advanced Warfighting Simulation Software Program. This program is used as an analysis tool for major purchasing and doctrinal decisions by the upper leadership of the Army.

Lieutenant Junior Grade - Information Professional Officer **Sep 2011 to Present**
United States Navy Reserves
C4I and satellite communications officer for Africa Combatant Command (AFRICOM) in Stuttgart, Germany. Knowledge manager and security clearance officer for AFRICOM reserve command detachment 108 in Fort Worth, TX.

Web Programmer **June 2006 to Present**
Primary web developer for www.Dealighted.com. Independently works remotely on all database and front end user interface code for website. Also develops automated Amazon mTurk requests and processing via cron scheduling for www.Dealighted.com and www.ResellerRatings.com. Assisted in planning and conducted multivariate testing for customer satisfaction seal program for www.ResellerRatings.com. All Enthusiast Inc.

Ensign - Information Professional Officer **Sep 2009 to Sep 2011**
United States Navy Reserves
Was responsible for tracking security requirements for Africa joint military combatant command reserve unit in Fort Worth, TX. Maintained unit Sharepoint website to allow easy sharing and dissemination of information and documents necessary to the unit's mission.

Research Assistant **Sep 2006 to Aug 2010**
Supported by Jonsson Scholarship (2006-2008) and ASEE SMART Scholarship (2008 to 2010)

Enlisted Service Member **July 1996 to Sep 2009**
United States Navy(1996 to 2002) and Navy Reserves(2002 to 2009)
Navy and Marine Corps Achievement Medal (2001,2002,2006,2007)

- Divisional supervisor for electronics repair and SCUBA diving divisions during major inspections.
- Duty section leader in charge of security watch and submarine maintenance activity scheduling for 15-20 personnel.
- Quality Assurance supervisor for underwater explosive assembly for three major certification inspections.
- Physical fitness supervisor/tester responsible for maintaining a physical fitness program which ensured 100
- Planned and facilitated unit training schedule.

Tutor and Teaching Assistant **Sep 2003 to May 2006**
Was responsible for grading student homework and projects for Discrete Mathematics and Calculus courses. Also worked at the university run student tutoring lab as a peer tutor in computer science, math and physics. In this position, gave a presentation at the annual College Reading and Learning Association annual conference on tutoring methods. Created study guide handouts for student use in mathematics.

JOURNAL ARTICLES Steven Bitner, Ovidiu Daescu. *Finding a Minimum Sum Dipolar Spanning Tree in \mathbb{R}^3* . Computational Geometry: Theory and Applications, accepted March 2010.

Steven Bitner, Ovidiu Daescu. *Farthest Segments and Extremal Triangles Spanned by Points in \mathbb{R}^3* . Information Processing Letters, Vol. 109, Issue 20 , pp. 1167-1171, 2009.

CONFERENCE PUBLICATIONS Steven Bitner, Yam Cheung, Ovidiu Daescu. *Minimum Separating Circle for Bichromatic Points in the Plane*. Proceedings of the 7th International Symposium on Voronoi Diagrams, pp. 50-55, June 2010.

Steven Bitner, Yam Cheung, Atlas Cook IV, Ovidiu Daescu, Anastasia Kurdia, Carola Wenk. *Visiting a Sequence of Points with a Bevel-Tip Needle*. Proceedings of the 9th Latin American Theoretical Informatics Symposium, pp. 492-502, April 2010.

Steven Bitner, Ovidiu Daescu. *Finding a minimum-sum dipolar spanning tree in \mathbb{R}^3* . Proceedings of the 41st Annual Hawaii International Conference on System Sciences, pp. 469-474, January 2008.

Steven Bitner, Ovidiu Daescu. *Finding segments and triangles spanned by points in \mathbb{R}^3* . Proceedings of the 19th Annual Canadian Conference on Computational Geometry , pp. 17-20, August 2007.

Steven Bitner, Ovidiu Daescu. *Minimum-sum dipolar spanning tree for points in \mathbb{R}^3* . Proceedings of the 19th Annual Canadian Conference on Computational Geometry , pp. 81-84, August 2007.

PRESENTATIONS *The Discrete 2-Center Problem in \mathbb{R}^3* . 20th Fall Workshop on Computational Geometry,

State University of New York - Stony Brook, NY, Oct. 29, 2010.

Visiting a Sequence of Points with a Bevel-Tip Needle. 9th Latin American Theoretical Informatics Symposium, University of Oaxaca, Apr. 20, 2010.

On the Minimum Color Separation Circle. 19th Fall Workshop on Computational and Combinatorial Geometry, Tufts University, Nov. 14, 2009.

Geometric Problems in Wireless Networks. American Society of Engineering Education - Science Mathematics And Research for Transformation scholarship program orientation, Monterey, CA, Jul. 14, 2009.

Finding segments and triangles spanned by points in \mathbb{R}^3 . 19th Annual Canadian Conference on Computational Geometry, Carleton University, Aug. 20, 2007

Minimum-sum dipolar spanning tree for points in \mathbb{R}^3 . 19th Annual Canadian Conference on Computational Geometry, Carleton University, Aug. 20, 2007

Finding segments and triangles spanned by points in \mathbb{R}^3 . Kyoto International Conference on Computational Geometry and Graph Theory, Kyoto University, Jun. 12, 2007

Farthest Segment Spanned by points in space. 16th Fall Workshop on Computational and Combinatorial Geometry, Smith College, Nov. 10, 2006.

Art Gallery Application at Texas State University. **Ungraduate research award, and student travel award.** 109th Annual Meeting of the Texas Academy of Science, Lamar University, Mar. 3, 2006.