

SADISH SADASIVAM

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Teaching Experience

- **University of Alabama in Huntsville**, *Huntsville, AL, USA.*
Faculty (Part-Time), May 2010 - Present.
 - CS 317: Introduction to Design and Analysis of Algorithms.

Business/Industry Experience

- **SAIC**, *Huntsville, AL, USA.*
Senior Principal Software Engineer, Mar 2013 - Present.
 - Team Lead for the User Interface component of the Force Protection software system.
- **Siemens PLM Software**, *Huntsville, AL, USA.*
Advanced Software Engineer, Aug 2005 - Mar 2013.
 - Integral part of the full SDLC process of designing, developing and maintaining various functionality for the **Part** and **Sheet Metal** modules of the **Solid Edge** product, which is a 2D & 3D CAD software system that provides solid modeling, assembly modeling and drafting functionality.
- **Intergraph Corporation**, *Huntsville, AL, USA.*
Senior Software Analyst, Jul 1997 - Aug 2005.
 - Developer in the **Reference Data** module of the **Smart 3D** software suite, which is a next generation graphics tool for design, construction and maintenance in plant, offshore, shipbuilding, and the metals and mining industries.

Education

- **University of Alabama in Huntsville**, *Huntsville, AL, USA.*
 - **Ph.D.; Computer Science**, Dec 2009.
 - * Minor: Mathematics.
 - * Dissertation: *st*-Orientations in Planar Graph Drawing.
 - **M.S.; Computer Science**, May 2006.
- **Indian Institute of Technology**, *Kharagpur, INDIA.*
 - **B.TECH. (Honours); Ocean Engineering & Naval Architecture**, Jun 1997.
 - * Thesis: Ship Surface Modelling using Triangular Patches.

Certifications

- CompTIA: *Security+*.
- Brainbench: *Master High IT Aptitude, Master Object Oriented Developer.*

Publications

Journal Articles

- [J1] Huaming Zhang and Sadish Sadasivam. Improved floor-planning of graphs via adjacency-preserving transformations. *Journal of Combinatorial Optimization*, 22(4):726–746, 2011.
 - [J2] Sadish Sadasivam and Huaming Zhang. Closed rectangle-of-influence drawings for irreducible triangulations. *Computational Geometry*, 44(1):9–19, 2011.
 - [J3] Sadish Sadasivam and Huaming Zhang. NP-completeness of st -orientations for plane graphs. *Theoretical Computer Science*, 411(7-9):995–1003, 2010.
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Conference Proceedings

- [C4] Sadish Sadasivam and Huaming Zhang. Closed rectangle-of-influence drawings for irreducible triangulations. In *Theory and Applications of Model of Computation, 7th Annual Conference, TAMC 2010, Prague, Czech Republic, June 7-11, 2010.*, volume 6108 of *Lecture Notes in Computer Science*, pages 409–418. Springer, 2010.
- [C5] Sadish Sadasivam and Huaming Zhang. NP-completeness of st -orientations for plane graphs. In *Fundamentals of Computation Theory, 17th International Symposium, FCT 2009, Wroclaw, Poland, September 2-4, 2009.*, volume 5699 of *Lecture Notes in Computer Science*, pages 298–309. Springer, 2009.
- [C6] Sadish Sadasivam and Huaming Zhang. On representation of planar graphs by segments. In *Algorithmic Aspects in Information and Management, 4th International Conference, AAIM 2008, Shanghai, China, June 23-25, 2008.*, volume 5034 of *Lecture Notes in Computer Science*, pages 304–315. Springer, 2008.
- [C7] Huaming Zhang and Sadish Sadasivam. On planar polyline drawings. In *Graph Drawing, 15th International Symposium, GD 2007, Sydney, Australia, September 23 - 26, 2007.*, volume 4875 of *Lecture Notes in Computer Science*, pages 213–218. Springer, 2007.