

PERSONAL STATEMENT:

“Teaching without research is blind. Research without teaching is sterile.”

Reserach:

I have a wide range of research interests in the general area of computing, often crossing into other fields such industrial and manufacturing engineering and the domain of E-learning . I have done research in fundamental graphics algorithms, geometric modeling, NURBS, bio-engineering, knowledge-guided computation, fault-tolerant design, and syber learning.

Teaching:

I have been teaching varous computer realted subject for more than two decates now and learnt that teaching can be a marvelous profession impacting people beyond imagination if done right. I believe that we should not interfer too much with the students’ natural desire to learn by imposing constrants on them. It must not make it an isolated endeavor, it must be embedded into the continuous search for new knowledge.

EDUCATION AND QUALIFICATION :

Doctor of Philosophy in Computer Science, University of South Florida – USA 2011

Master of Computer Science, University of South Florida – USA 2002

Bachelor of Computer Science, University of South Carolina – USA 2000

WORK EXPERIENCES :

- Associate Professor in Najran University – College of Computer Science and Information Systems, Jan 2019 – Current.
- Assistant Professor in Najran University – College of Computer Science and Information Systems, Jun 2012 – Dec 2018.
- Dean, E-learning and Distance Education, Jun 2018 -- Current
- Vise Dean - E-learning and Distance Education
- Department Head – Networking and Telecommunication Engineering
- Center for Scientific and Engineering Research Member
- Research Unit Director
- Participate in many committees including:
 - Public Relation Committee, Head
 - Community Services Committee, Head
 - External Exam Committee, Head

- Instructor & System Information Analyst in Saudi Airlines – Information Technology, Jul 2003 – Mar 2006.

TAUGHT COURSES:

- **Najran University:**

- Programming Language Fundamentals
- Data Structure
- Algorithms Design and Analysis
- Graduation Projects (I & II)
- **University of South Florida:**
 - *Instructor:*
 - Program Design - a required course for CSE undergraduate students, designed to teach students to use C programming language in a networked, Unix environment.
 - Data Structure - a required course for CSE undergraduate students used C++ programming language
 - *Teaching Assistant:* USF, Spring 2006 – Spring 2009
 - Computer Graph
 - Software Engineering
 - Advanced Discrete Structures,

PROFESSIONAL SKILLS:

I have attended many workshops and seminars for professional skills development including: developing teaching skills in the field of continuous improvement, performance measurement, programs accreditation, communication skills, use of technology in education, risk management, and preparing operational plans.

PUBLICATIONS:

1. Handling Anomalies in Object Slicing for 3-D Printing, Computer-Aided Design and Applications Vol. 18 No. 3, 2019, 528-538.
2. A new computational intelligence approach to detect autistic features for autism screening, International journal of medical informatics Vol. 117, 2019, 112-124
3. The Effectiveness and Potential of E-learning in War Zones: An Empirical Comparison of Face-to-Face and Online Education in Saudi Arabia, IEEE Access, 2018.
4. Point cloud slicing for 3-D printing, Computer-Aided Design and Applications Vol. 15 No. 1, 2017, 90-97.
5. New Hybrid Features Selection Method: A Case Study on Websites Phishing, Security and Communication Networks 2017.
6. Generating point clouds for slicing free-form objects for 3-D printing, Computer-Aided Design and Applications Vol. 14 No. 2, 2017, 242-249
7. Point Cloud Computation for Object Slicing in 3-D Printing, Proceedings of CAD'16, 34-38
8. Architecture for a Robust CAD Kernel built on the Principles of Energy Medicine-based Healing, Proceedings of CAD'15, 33-37.
9. Algorithm for the Removal of Rectangle Containment for Rectangle Spline Generation. Computer-Aided Design and Applications, Vol. 12, No. 1, 2015, 1-8.
10. Data Processing for Medial Axis Computation Using B-Spline Smoothing J. Comput. Inf. Sci. Eng. 14, 041002 (2014) (11 pages); Paper No: JCISE-14-1011
11. A Knowledge-Guided Approach to Line NURBS Curve Intersection, Computer-Aided Design and Applications, Vol. 11, No. 1, 2014, 1-9
12. It is time to drop the "R" from NURBS. Engineering with Computers, Vol. 30, No. 4, 2014, 703-714
13. CAD model repair using knowledge-guided NURBS, Engineering with Computers, Vol. 29, No 4, 2013, 477-486
14. Heterogeneous Modeling of Medical Image Data Using B-spline Functions, Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, Vol. 226, No, 10, 2012, 737-751

15. From CT to NURBS: Contour Fitting with B-spline Curves. Computer-Aided Design and Applications, Vol. 8 No. 1, 2011, 3-21.
16. Fault-tolerant Computing in a Knowledge-guided NURBS Environment. Computer-Aided Design and Applications, Vol. 6, No. 6, 2009, 809-823.
17. Using a biarc filter to compute curvature extremes of NURBS curves. Engineering with Computers, Volume 25 Issue 4, 2009, 379-387.
18. Point-Distance Computations: A Knowledge-Guided Approach. Computer-Aided Design and Applications, Vol. 5, No. 6, 2008, 855-866.
19. Curve interpolation with directional constraints for engineering design. Engineering with Computers, Vol. 24, 2008, 79-85.
20. High Fidelity Conversion of NURBS Curves for Data Exchange. Computer-Aided Design and Applications, Vol. 4, No. 5, 2007, 683-693.

CONFERENCES:

1. Special Cases in Object Slicing for 3-D Printing, CAD18 Paris, France, August 2018
2. Slicing Point Clouds for 3-D Printing, CAD17 Okayama, Japan, August 2017
3. Point Cloud Computation for Object Slicing in 3-D Printing, CAD16 Vancouver, Canada, June 2016
4. Architecture for a Robust CAD Kernel built on the Principles of Energy Medicine-based Healing, CAD15 London, UK, June 2015
5. Algorithm for the Removal of Rectangle Containment for Rectangle Spline Generation, CAD14 Hong Kong, China, June 2014
6. Data Processing for Medial Axis Computation Using B-Spline Smoothing, CAD14 Hong Kong, China, June 2014
7. A Knowledge-Guided Approach to Line NURBS Curve Intersection, , CAD13 Bergamo, Italy, June 2013
8. It is time to drop the "R" from NURBS, CAD13 Bergamo, Italy, June 2013
9. Fault-tolerant Computing in a Knowledge-guided NURBS Environment, CAD09 Reno, Nevada, USA. June 2009
10. GPU Support for NURBS-based Modeling, CAD09 Reno, Nevada, USA. June 2009
11. Modeling Tissue Density Variations in Medical Images using B-Spline Surfaces, CAD09 Reno, USA. Nevada, June 2009
12. From CT to NURBS: Bio-Modeling with B-Spline curves. CAD08 Orlando, Florida, USA. June 2008.
13. Point-Distance Computations: A Knowledge-Guided Approach. CAD08 Orlando, Florida, USA. June 2008.
14. High Fidelity Conversion of NURBS Curves for Data Exchange. CAD07 Honolulu, Hawaii, USA. June 2007

Conference Organization & Session Chair

- CAD17 Conference: Okayama, Japan. International Organizing Committee - Middle-East, and Session Chair, June 2017.
- CAD16 Conference: Vancouver, Canada. International Organizing Committee - Middle-East, and Session Chair, June 2016.
- CAD15 Conference: London, UK. International Organizing Committee - Middle-East, June 2015.
- CAD14 Conference: Hong Kong, China. Sessions Chair, June 2014.
- CAD13 Conference: Bergamo, Italy. Sessions Chair, June 2013.
- CAD09 Conference: Reno, USA. Organizer & Sessions Chair, June 2009.

- CAD08 Conference: Orlando USA. Organizer & Sessions Chair, June 2008.
- CAD07 Conference: Honolulu, USA. Organizer, June 2007.

HONORS/AWARDS:

- I have received several honor certificates during my undergraduate and graduate studies. I have also been granted scholarships and research funding

PROFESSIONAL MEMBERSHIPS:

- Member | IEEE (2006 - Current)

OTHER ACTIVITIES:

I have worked on a voluntary basis in technical programs committee and as a scientific papers reviewers on the following:

- Journal of Knowledge & Information Management (2014 - Current)
- The Tenth International Conference on Internet and Web Applications and Services , ICIW 2015, June 21 - 26, 2015 - Brussels, Belgium
- The Ninth International Conference on Internet and Web Applications and Services ICIW 2014, July 20 - 24, 2014 - Paris, France
- The International Multi-topic Conference, IMTIC'14, Feb, 2014 Mehran University, Jamshoro, Pakistan
- The International Multi-topic Conference, IMTIC'13, Feb, 2013 Mehran University, Jamshoro, Pakistan
- The Sixth International Conference on Advances in Future Internet, AFIN 2014, Nov 16 - 20, 2014 - Lisbon, Portugal