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EDUCATION

2004 – 2007 **New Mexico Tech,** Socorro, New Mexico
Ph.D. in Computer Science

2003-2004 **New Mexico State University,** Las Cruces, New Mexico
Master of Science in Computer Science

WORK EXPERIENCE

Spet. 2013 – Present: Associate Professor, Texas A&M University – Kingsville, Department of Electrical Engineering and Computer Science

Aug. 2010 – Spet. 2013: Assistant Professor, Texas A&M University-Kingsville, Department of Electrical Engineering and Computer Science

Aug. 2007 – June 2010: Assistant Professor, The University of Southern Mississippi, School of Computing

BIBLIOGRAPHY OF PUBLICATIONS

Refereed Journal Publications

- SBUD: Energy Efficient Mobile Storage Systems using Solid State and Buffer Disks, work on progress, will be submitted to IEEE Transactions on Computers
- M. Nijim, X. Qin, M. Qiu, K.-L. Li, "An Adaptive Energy-Conserving Strategy for Parallel Disk Systems", *Future Generation Computer Systems: The Int'l Journal of Grid Computing*, vol. 29, pp. 196-207, 2013.
- Mais Nijim, Muhittin yilmaz, Xiao Qin, CaPaS: An Optimal Security-Aware Cache Replacement Algorithm for Cluster Storage Systems, *International Journal of High Performance System Architecture*, Vol. 3, No. 4, 2011, pp. 216-232.
- Z. L. Zong, J. Job, X. S. Zhang, M. Nijim, and X. Qin, "Case study of visualizing global user download patterns using Google Earth and NASA World Wind, Journal of Applied Remote Sensing 6 (1), 061703 (October 09, 2012); doi: 10.1117/1.JRS.6.061703.

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- Taeg Hyun Kang, Young Lee, Mais Nijim, Task-Based Visualization using Merged View, *Journal of Communication and Computer,* Vol. 9, no. 6, pp. 665-668, June 2012.
- Mais Nijim, Conserving Energy in Real Time Parallel Disk Systems, Journal of Computing, Volume 3, issue 12, December 2011.
- Mais Nijim, Young Lee, Nuri Yilmazer, Remzi Seker," A DATA MINING ALGORITH FOR MULTI LEVEL PREFETCHING IN STORAGE SYSTEMS", *Proc. of Ubiquitous Computing and Communication Journal*, August 2011, pp. 10-19.
- M. Nijim, K. Bellam, Z. Zong, S. Yin, X. Qin" Quality of Security Adaptation in parallel Disk Systems", Original Research Article *Journal of Parallel and Distributed Computing*, Volume 71, Issue 2, February 2011, Pages 288-301 (Acceptance rate 21%)
- Manzanares, A. Roth, X. -J Ruan, S. Yin, M. Nijim, and X. Qin, "Conserving Energy in Real-Time Storage Systems with I/O Burstiness" *ACM Transactions on Embedded Computing Systems.* Forthcoming, Volume 9, Issue 3, Feb. 2010 (21 pages).
- X. Qin, M. Alghamdi, M.Nijim , Z. Zong, K.Bellam,"Improving security of real-time wireless network through packet scheduling" *IEEE Transactions on Wireless Communications*, vol. 7, no. 9, , pp. 3273-3279, Sept. 2008.
- Z. Zong, M. Nijim, X. Qin, " Energy Efficient Scheduling for Parallel Applications on Mobile Clusters, " Cluster Computing: *The Journal of Networks, Software Tools and Applications*, vol. 11, no. 1, pp. 91-113, 2008.
- M.Nijim**,** X. Qin, and Z. Zong,"StReD : A Quality of Security Framework for Storage Resources in Data Grids" *Future Generation Computer Systems, The Int'l Journal of Grid Computing,* Volume 23, issue 6, Pages: 816-824, July 2007.
- M.Nijim, X.Qin, and T.Xie, "Modeling and Improving Security of a Local Disk System for Write-Intensive Workloads," *ACM Transactions on Storage,* vol. 2, no. 4, pp. 400-423, Nov. 2006.
- M.Nijim**,** T.Xie, and X.Qin, "Performance Analysis of an Admission Controller for CPU- and I/O-Intensive Applications in Self-Managing Computer Systems," *ACM Operating Systems Review*, Vol. 39, No. 4, Pages: 37-45, October 2005.

Conference Publications

- N. Mantrawadi, M. Nijim, L. Clapp, A. Martinez, "VOC emission monitoring at Eagle Ford Shale Drill site using Wireless Sensor Network for understanding emission generation and dispersion", Proc. Shale Energy Conference, *ASCE 2014.*
- S. Saha, A. Biswas, M. Nijim, L. McLauchlan, " Energy Efficiency Evaluation of Data Mining Prefetching Algorithms for Hybrid Storage Systems", *Proc. 7th IEEE Green Technologies Conference*, April 2014.
- M. Nijim, S. Saha, A. Biswas, " Analysis and Optimization of Data Mining Prefetching Algorithms: DM-PAS", Proc., the international Workshop on Wireless Mesh and Ad-hoc Networking, ICCCN, 2014.

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- M. Nijim, N. Mantrawadi, "Paved and Unpaved Road Monitoring Using Unmanned Ariel Vehicles for Avoiding Road Damage, International Engineering Conference in Design and Innovation in Sustainability, 2014.
- H. Kamuru, M. Nijim," Develop a Solution for Protecting and Securing Enterprise Networks from Malicious Attacks, SPIE Defense and Security Symposium, May 2014.
- M. Nijim, S. Saha, Y.Nijim, Central and Distributed GPU Based Parallel Disk Systems for Data Intensive Applications, Submitted to the 11th International Conference on Mobile Systems and Pervasive Computing, 2014.
- K. M. Nazmus Sakib & M. Nijim, "Analysis of a security protocol in a cluster storage system", DATA 2013.
- Nikhil Mantrawadi, Mais Nijim, Young Lee, Object identification and classification in a high resolution satellite data using data mining techniques for knowledge extraction, accepted to IEEE Syscon, pp. 750-755, April 2013.
- Mais Nijim, Young Lee, Kiran Bellam, HyBuM: Hybrid Energy Efficient Architecture for Mobile Storage Systems, *9th IEEE International Conference on Information Technology: New Generation*, April 2012 (Best Paper Award Nomination).
- R. Fares, B. Romoser, Z. Zong, M. Nijim, X. Qin, "Performance Evaluation of Traditional Caching Policies on a Large System with Petabytes of Data, *Proc. 7th IEEE International Conference on Networking, Architecture*, and Storage, June 2012 (Best Paper Award Nomination).
- Z. L. Zong, X. Qin, X. J. Ruan, M. Nijim, "Heat-Based Dynamic Data Caching: A Load Balancing Strategy for Energy-Efficient Parallel Storage Systems with Buffer Disks", *IEEE Symposium on Massive Storage Systems and Technologies*, 2011, pp. 1-6.
- Mais Nijim, Yousef Nijim, Remzi Seker, Vamshi Reddy, "DM-PAS: A Data-Mining Prefetching Algorithm for Storage System, "*IEEE International Symposium on Advanced of High Performance Computing and Networking*, September 2011.
- Mais Nijim, Data Mining Prefetching Algorithm for Hybrid Storage System, *5th International Conference on Information Technology*, ICIT' 2011
- N. Kanaskar, J. Bian, R. Seker, M. Nijim, and N. Yilmazer, Dynamical System Approach to Insider Threat Detection, IEEE SysCon 2011, Proceedings of 2011, pp. 232-238.
- M. Nijim, " Modeling Speculative Prefetching for Hybrid Storage Systems", *IEEE NAS* 2010, pp. 143-151.
- M. Nijim, Ziliang Zong, Xiao Qin, Yousef Nijim," Multi-level Prefetching Algorithm for Hybrid Storage Systems: Algorithm, Modeling, and Evaluation", *IEEE International Conference on Parallel Processing*, 2010, pp. 44-49.
- S. Yin, M. I. Alghamdi, X.-J. Ruan, M. Nijim, A. Tamilarasan, Z.-L. Zong, X. Qin, and Y.-M. Yang, "Improving Energy Efficiency and Security for Disk Systems," *Proc. 12th IEEE International Conference on High Performance Computing and Communications (*HPCC-10*)*, Melbourne, Australia, September 1-3, 2010, pp. 442-449, (**Acceptance Rate: 19%**, 58/304)
- M. Nijim, A. Manzanares, X.-J. Ruan, X. Qin, "HYBUD: An Energy-Efficient Architecture for Hybrid Parallel Disk Systems", *Proc. The 18th IEEE Int'l Conference on Computer Communications and Networkd (ICCCN)*, 2009, pp. 1-6, (Acceptance rate 27%).

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- Manzanares, Xiaojun Ruan, S. Yin, M. Nijim, X. Qin, and W. Luo, "Energy-Aware Prefetching for Parallel Disk Systems: Algorithms, Models, and Evaluations," *Proc. The 8th IEEE International Symposium on Network Computing and Applications*, 2009, pp. 90-97.
- Xiaojun Ruan, A. Manzanares, S. Yin, M. Nijim, and X. Qin, "Can We Improve Energy Efficiency of Secure Disk Systems without Modifying Security Mechanisms?" *Proc. the 4th IEEE International Conference on Networking, Architecture, and Storage* (NAS), Zhang Jia Jie, China, July 2009, pp. 413-420, (acceptance rate: 25.3%, 45/178)
- M. Nijim, " Modelling A Hybrid Energy-Efficient Architecture for Parallel Disk Systems" Proc. The 4th International Conference on Information Technology, July 2010.
- M. Nijim, X. Qin, Z.-L. Zong, Xiaojun Ruan and K. Bellam, "Security-Aware Cache Management for Cluster Storage Systems," *Proc. the 17th IEEE International Conference Computer Communications and Networks* (ICCCN), St. Thomas, Virgin Islands, Aug. 2008. (acceptance rate (25%).
- Roth, A. Manzanares, K. Bellam, M.Nijim, X. Qin, : Energy Conservations for Real-Time Disk Systems with I/O Burstiness", *Proc. IEEE Int'l Workshop Next Generations Autonomous Storage and High performance Computing*, ST. Thomas, Virgin Islands, Aug. 2008
- M. Nijim, A. Manzanares, X. Qin, " An Adaprive Energy-Conserving Strategy for Parallel Disk Systems", Proc. The 12th *IEEE Int's Symp. Distributed Simulation and Real Time Applications (DS-RT)*, Oct. 2008, pp. 75-82.
- Xiaojun Ruan, X. Qin, M. Nijim, Z.-L. Zong, and K. Bellam, "An Energy-Efficient Scheduling Algorithm Using Dynamic Voltage Scaling for Parallel Applications on Clusters," *Proc. 16th IEEE International Conference on Computer Communications and Networks* (ICCCN), Honolulu, Hawaii, Aug. 2007, pp. 735-740, (acceptance rate: 29%)
- Z.-L. Zong, X. Qin, M. Nijim, Xiaojun Ruan, K. Bellam, and M. Alghamdi, "Energy-Efficient Scheduling for Parallel Applications Running on Heterogeneous Clusters," *Proc. 36th IEEE International Conference on Parallel Processing* (ICPP), Sept. 2007, pp. 19.
- K. Bellam, R. K. Vudata, X. Qin, Z.-L. Zong, M. Nijim, and Xiaojun Ruan, "Interplay of Security and Reliability using Non-Uniform Checkpoints," *Proc. 16th IEEE International Conference on Computer Communications and Networks* (ICCCN), Honolulu, Hawaii, Aug. 2007, pp. 663-668, (acceptance rate: 29%).
- M. Nijim, Adel Ali," An Energy Efficient Framework Using Non-Volatile Flash Memory for Networked Storage System", *Proc. IEEE Conference on Information Reuse and Integrations*, Las Vegas, July 2008, pp. 463-468.
- M. Nijim, Adel Ali," AdSeD: An Adaptive Quality of Security Control in Disk Systems:, proc. 11th *International Conference on Computational Science and Engineering (CSE),* Sao Paulo, Brazil, 2008, pp. 421-428.
- M. Nijim, T. Xie, X. Qin," Integrating a Performance Model in Self-Managing Computer Systems under Mixed Workload Conditions", Proc. *IEEE international Conference on Information Reuse and Integrations,* 2005, pp. 132-137.

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- M. Nijim, Q. Qin, T. Xie, M. Alghamdi,"AWARDS: An Adaptive Write Scheme for Secure Local Disk Systems", *Proc. 25th IEEE Int'l Performance Computing and Communications Conf*. (2005), pp.-192.
- T. Xie, X. Qin, M. Nijim," Sharp: A New Real-Time Scheduling Algorithm to Improve Security of Parallel Applications on Heterogeneous Clusters", *Proc. 25th IEEE Int'l Performance Computing and Communications (IPCCC)*, April 2006, Pages: 8, pp.-64.
- M. Nijim, T. Xie, M. Alghamdi, " An Adaptive Strategy for Secure Distributed Disk Systems", *NASA/IEEE Conference on Mass Storage Systems and Technologies*, WIP session, May 2006.
- T. Xie, X. Qin, M. Nijim, " Solving Energy-Latency Dilemma: Task Allocation for Parallel Applications in Heterogeneous Embedded Systems:, *Proc. 35th IEEE International Conference on Parallel Processing (ICPP)*, Columbus, Ohio, Aug. 2006, pp. 12-22.
- M. Nijim, X. Qin, T. Xie," An Adaptive Quality of Security Control in Networked Parallel Disk Systems", *Proc. 15th IEEE Int'l Conference on Computer Communications and Networks (ICCCN),* Arlington, Virginia, 2006, pp. 455-460.
- Z. Zong, M. Nijim, X. Qin, " HAGEES: A High Availability Guaranteed Energy-Efficient Scheduling Strategy for High-Performance Clusters**"** *Proc. the 7th Symp. the Los Alamos Computer Science Institute*, Santa Fe , NM Oct. 2006.
- X. Qin, M. Alghamdi, M. Nijim, Z.-L. Zong, and K. Bellam," Scheduling of Periodic Packets in Energy-Aware Wireless Networks", *Proc. the 26th IEEE Int'l Performance Computing and Communications Conf.* (IPCCC'07), April 2007, pp. 210-217.
- K. Bellam, Z.Zong, M. Nijim, M. Alghamdi, X. Qin," Integrating Fault Recovery and Quality of Security in Real-time Systems", Proc. IEEE Int"l Symp. On Ubisafe Computing, Ontario Canada, May 2007, pp. 500-505.

LIST OF PRESENTATIONS

- Mais Nijim, "Paved and Unpaved Road Monitoring", Eagle ford Shale center workshop, Cotulla 2014
- Mais Nijim, " Advanced technologies for Pipeline Monitoring", South Texas Emergency Response Workshop, City of Cotulla, August 15, 2013.
- K. M. Nazmus Sakib & M. Nijim, "Analysis of a security protocol in a cluster storage system", DATA 2013.
- Nikhil Mantrawadi, Mais Nijim, Young Lee, Object identification and classification in a high resolution satellite data using data mining techniques for knowledge extraction, accepted to IEEE Syscon, pp. 750-755, April 2013.
- Mais Nijim, Nikhil Mantrawadi, "Real time intelligent system processing high-resolution satellite data for environmental data analysis", CREST-RESSACA Environmental and Energy Sustainable Conference, April 26, 2012. (Nikhil Mantrawadi is my graduate student).

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- M. Nijim, A. Manzanares, X.-J. Ruan, X. Qin, "HYBUD: An Energy-Efficient Architecture for Hybrid Parallel Disk Systems", *Proc. The 18th IEEE Int'l Conference on Computer Communications and Networkd (ICCCN)*, 2009, pp. 1-6, (Acceptance rate 27%).
- M. Nijim, " Modelling A Hybrid Energy-Efficient Architecture for Parallel Disk Systems" Proc. The 4th International Conference on Information Technology, July 2010.
- M. Nijim, X. Qin, Z.-L. Zong, Xiaojun Ruan and K. Bellam, "Security-Aware Cache Management for Cluster Storage Systems," *Proc. the 17th IEEE International Conference Computer Communications and Networks* (ICCCN), St. Thomas, Virgin Islands, Aug. 2008. (Acceptance rate (25%).
- M. Nijim, A. Manzanares, X. Qin, " An Adaprive Energy-Conserving Strategy for Parallel Disk Systems", Proc. The 12th *IEEE Int's Symp. Distributed Simulation and Real Time Applications (DS-RT)*, Oct. 2008, pp. 75-82.
- M. Nijim, Adel Ali," An Energy Efficient Framework Using Non-Volatile Flash Memory for Networked Storage System", *Proc. IEEE Conference on Information Reuse and Integrations*, Las Vegas, July 2008, pp. 463-468.
- M. Nijim, Adel Ali," AdSeD: An Adaptive Quality of Security Control in Disk Systems:, proc. 11th *International Conference on Computational Science and Engineering (CSE),* Sao Paulo, Brazil, 2008, pp. 421-428.
- M. Nijim, T. Xie, X. Qin," Integrating a Performance Model in Self-Managing Computer Systems under Mixed Workload Conditions", Proc. *IEEE international Conference on Information Reuse and Integrations,* 2005, pp. 132-137.
- M. Nijim, Q. Qin, T. Xie, M. Alghamdi,"AWARDS: An Adaptive Write Scheme for Secure Local Disk Systems", *Proc. 25th IEEE Int'l Performance Computing and Communications Conf*. (2005), pp.-192.
- M. Nijim, T. Xie, M. Alghamdi, " An Adaptive Strategy for Secure Distributed Disk Systems", *NASA/IEEE Conference on Mass Storage Systems and Technologies*, WIP session, May 2006.
- M. Nijim, X. Qin, T. Xie," An Adaptive Quality of Security Control in Networked Parallel Disk Systems", *Proc. 15th IEEE Int'l Conference on Computer Communications and Networks (ICCCN),* Arlington, Virginia, 2006, pp. 455-460.

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RESEARCH AND CREATIVE ACTIVITIES

Funded Research

1. Security Engineering: Development of Curriculum and Research at Texas A&M University-Kingsville (phase 1)
   Source: Homeland Security
   Role: CoPI (Early Faculty CAREER AWARD for the CoPIs)
   Amount: $700,000
   Duration: Sept 2012-August 2014 (2 years)

2. Security Engineering: Development of Curriculum and Research at Texas A&M University-Kingsville (phase 2)
   Source: Homeland Security
   Role: CoPI (Early Faculty CAREER AWARD for the CoPIs)
   Amount: $700,000
   Duration: Sept 2014-August 2017 (4 years)

3. Robert Noyce Teacher Scholarship Program Capacity Building: Future STEM Teachers in South Texas
   Source: National Science Foundation (NSF)
   Role: CoPI
   Amount: $291,352
   Duration: August 1, 2012- July 31, 2014 (2 years)

4. Wireless Sensor Network Lab in support of Graduate Education (Equipment Fund)
   Source: Promoting Postbaccalaureate Opportunities for Hispanic Americans
   Role: PI
   Amount: $40,300
   Duration: August 2012

5. FastStor: Data Mining Based Multi-Layer Prefetching for Hybrid Storage Systems
   Source: National Science Foundation (NSF)
   Role: PI
   Amount: $99,999

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Duration:08/01/ 2010-08/01/2013 (3 years)

6. FastStor: Data Mining Based Multi-Layer Prefetching for Hybrid Storage Systems
   Source: National Science Foundation (NSF)
   Role: PI
   Amount: $16,000
   Duration:08/01/ 2011-08/01/2012 (1 year)

7. FastStor: Data Mining Based Multi-Layer Prefetching for Hybrid Storage Systems
   Source: National Science Foundation (NSF)
   Role: PI
   Amount: $16,000
   Duration:08/01/ 2012-08/01/2013 (1 year)

8. Development of an Intelligent Wireless Sensor Network for Monitoring Air Quality at Natural Gas Operation in the Eagle Ford Shale
   Source: Frank H. Dotterweich College of Engineering, Texas A&M University- Kingsville
   Role: PI
   Amount: $20,000
   Duration: 2011-2012 (1 year)

9. Engineering and Science Frontiers (ESF) Summer Camp
   Source: Texas Higher Education Coordinating Board
   Role: CoPI
   Amount: $20,000
   Duration: July/2011 (one month)

10. Air Quality Monitoring of Drilling Operations in the Eagle Ford Shale
    Source: Research Partnership to Secure Energy for America (RPSEA)
    Role: CoPI
    Amount: $100,000
    Duration: 2012-2014 (2 years)

    Duration: 2007-2008 (1 year)

Proposals Submitted (including under current review)

1. PFI : BIC –Hybrid Oil/Gas Pipeline Monitoring and First Response System
   Source: National Science Foundation (NSF)
   Role: PI
   Amount : $800,000
   Duration: 2014-2016 (Pending)

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2. Oil/Gas Pipeline Monitoring and First Response System using Smart Wireless Sensor Network
   Source: U.S. Dot Pipeline and Hazardous materials Safety Administration, Competitive Academic Agreement Program (CAAP)
   Role: PI
   Amount: $100,000
   Duration: 2014-2016 (Pending)

3. UAV Based Remote Pipeline Inspection
   Source: U.S. Dot Pipeline and hazardous Materials Safety Administration, Comptetive Academic Agreement Program (CAAP)
   Role: CoPI
   Amount: $100,000
   Duration: 2014-2016 (Pending)

4. Changing the Perspective: Toward A Model for Integrating Entrepreneurship in Computing Curricula
   Source: NSF
   Amount: $200,000
   Duration 2014-2016 (Pending)

5. CAREER: Centralized and Distributed Storage System with Managed I/O
   Source: National Science Foundation (NSF)
   Role: PI
   Amount: $400,000
   Duration: 2013-2018 (5 years)

6. Data Intensive Storage and Processing System- Centralized and Distributed
   Source: Defense Advanced Research Project Agency (DARPA)- Young Faculty Award
   Role: PI
   Amount: $271,815
   Duration: 2012-2014 (2 years)

7. A Disaster Messaging System for Mobile Devices: Integrating Disaster Data Capturing and Location-Based Comparison Model
   Source: AT&T
   Role: PI
   Amount: $25,000

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Duration: 2012 (8 months)

8. 3D Video Quality Measurement
   Source: NPRP Qatar
   Role: PI
   Amount: $1000,000
   Duration: 2012-2015 (3 years)

9. 3D Video Quality Measurement
   Source: NPRP Qatar
   Role: PI
   Amount: $1000,000
   Duration: 2011-2014 (3 years)

10. Collaborative Research: II-New: STRESS – A Suite of Software Tools for Research on Energy-Efficient Storage Systems
    Source: National Science Foundation
    Role: PI
    Amount: $50,000
    Duration: 2012-2015 (3 years)

11. A Coupled Hydrodynamic and Biogeochemical Regional Ocean Model for the Western Gulf of Mexico Coast: A Case Study for the Copano Bay of Mission Aransas National Estuarine Research Reserve
    Source: EPA Gulf of Mexico
    Role: Co-PI
    Amount: $180,242
    Duration: 2012-2015 (3 years)

12. A Regional Ocean Model for the Western Gulf Coast
    Source: University Research Award
    Role: PI
    Amount: $150,000
    Duration: 2012-2013 (1 year)

13. Nano-structured Sensors with Tunable Pore Size for Detecting Volatile Organic Compounds in Oceanic Waters and Air
    Source: EPA Gulf of Mexico
    Role: Co-PI
    Amount: $600,000
    Duration: 2013-2016 (3 years)

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14. Security Engineering: Development of Curriculum and Research at Texas A&M University-Kingsville
    Source: Homeland Security
    Role: Co-PI
    Amount: $500,000
    Duration: 2011-2014 (3 years)

15. Robert Noyce Teacher Scholarship Program Capacity Building: Future STEM Teachers in South Texas
    Source: National Science Foundation
    Role: Co-PI
    Amount: $300,000
    Duration: 2013-2016 (3 years)

16. CSR: Small: Collaborative Research: FastStor: Data Mining Based Multilayer Prefetching for Hybrid Storage Systems
    Source: National Science Foundation
    Role: PI
    Amount: $16,000
    Duration: 2012-2013 (1 year)

17. CAREER: Modular GPU Central and Distributed Based Parallel Disk Systems for Extensive Data Storage and Processing
    Source: National Science Foundation
    Role: PI
    Amount: $400,000
    Duration: 2011-2016 (5 years)

18. Collaborative Research- Changing the Perspective: Towards a Model for Integrating Entrepreneurship in Computing Curricula
    Source: National Science Foundation
    Role: PI
    Amount: $139,000
    Duration: 2011-2013 (2 years)

19. Collaborative Research- Changing the Perspective: Towards a Model for Integrating Entrepreneurship in Computing Curricula
    Source: National Science Foundation
    Role: PI
    Amount: $199,995
    Duration: 2012-2014 (2 years)

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20. Growing Scientists: New Models of Professional Development that Support Teacher Learning and Student Engagement for Rural Schools
    Source: National Science Foundation
    Role: Co-PI
    Amount: $402,307
    Duration: 2011-2014 (3 years)

21. A Sensor Web Testbed to Support Surface Hydrological Studies
    Source: National Science Foundation
    Role: Co-PI
    Amount: $234,618
    Duration: 2011-2014 (3 years)

22. Development of an Intelligent Alarm Management System
    Source: National Priorities Research Program, Qatar
    Role: Co-PI
    Amount: $1000,000
    Duration: 2011-2014 (3 years)

23. CAREER: Multicor-FastStor: A Multilevel Prefetching Algorithm for Multicore-Based Hybrid Storage Systems
    Source: National Science Foundation
    Role: PI
    Amount: $401,136
    Duration: 2010-2015 (5 years)

24. Research for Sustainable Development of South Texas Coastal Bend Area
    Source: EARMARK
    Role: Co-PI
    Amount: $3000,000
    Duration: 2010-2015 (5 years)

25. Development of an Intelligent Alarm Management System
    Source: National Priorities Research Program, Qatar
    Role: Co-PI
    Amount: $1000,000
    Duration: 2010-2013 (3 years)

26. Security Engineering: Development of Curriculum and Research at Texas A&M University-Kingsville
    Source: Homeland Security

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Role: Co-PI
Amount: $500,000
Duration: 2012-2015 (3 years)

27. NOAA Cooperative Science Center at Minority Serving Institutions
    Source: NOAA
    Role: Senior Investigator
    Amount: $15,000,000
    Duration: 2010-2015 (5 years)

28. IGERT: Environmental Technology (EvTech) as basis for Graduate Students Training
    Source: National Science Foundation
    Role: Senior Personnel
    Amount: $5000,000
    Duration: 2011-2016 (5 years)

PROFESSIONAL GROWTH ACTIVITIES

1. Member, IEEE
2. TPC member for IEEE MASS 2014
3. Attended WKI Program at University of Texas Pan American, July 10-11, 2012.
4. Attended Gulf of Mexico Alliance Summit June 19-21,2012, Corpus Christi, TX.
5. Session Chair: 4th International Conference on Information Technology, Amman, Jordan, June 2009.
6. Attended 2011 Quality Education for Minorities, Faculty Early Career Development (CAREER) proposal, QEM workshop.
7. College of Engineering best paper award, May 2011.
8. Deans Best Researcher Award, May 2013.
9. Computer Science Faculty of the Year, May 2012.
10. Committee Member and reviewer on:
    a. IEEE International System Conference SysCon 2013
    b. IEEE International Conference on Networking, Architecture, and Storage (NAS 2010)
    c. 11th International Conference on Computational science and Engineering (CSE'08),
    d. The 4th International Conference on Information Technology (ICIT 09)
    e. IEEE Symposium on Computers and Communications (ISCC'08)
    f. IEEE International Conference on Networking, Architecture, and Storage (NAS 2012)
11. Technical Reviewer:
    a. IEEE Transactions on Computers

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b. IEEE Transactions on Parallel and Distributed Systems
c. ACM Transactions on Embedded Computing Systems
d. IEEE Transaction on Storage
e. IEEE Transaction on Systems, Man, and Cybernetics

Service Activities

1. Member of the research cluster committee (Fall 2010 – present)
2. Faculty Search Committee member 2014
3. Recruitment Committee member 2014
4. Very active member of the Eagle ford shale center, done many presentations, designed the website, get in touch with companies to establish collaborations such as Raytheon (2012-2014).
5. The coordinator of the computational science cluster (Fall 2010-present)
6. Judge for sensor design May 2014
7. Judge for Poster Competition, April 2014.
8. Freshman Convocation Committee (Fall 2011-present)
9. Executive Secretary for the Women Council
10. Represented Department during student recruitment events and visit by high school students at various times
11. Judge for the Coastal Bend BEST Robotics competition, 2010
12. Visited South Texas College for recruitment in Fall 2010
13. Overseas recruitment efforts resulted in 2 outstanding graduate students from Bangladish
14. Attended graduation ceremony in Spring 2011 and Spring 2012
15. Help in lining up students in graduation ceremony May 2012
16. Attended the high school recruitment in the convention center, Kingsville, April 2012
17. Judge for engineering student design and research conference, April 2011 and April 2012
18. College of Engineering graduate students poster judging, April 2012
19. College of Engineering graduate students poster judging, April 2013
20. Co-chair of Computer Science Faculty Search Committee, Summer 2013.
21. Member of Computer Science Faculty Search Committee, Summer 2013.

Awards

1. Faculty of the year, Department of Electrical Engineering and Computer Science, May 2012
2. Deans award, best paper, May 2011
3. Deans award, Outstanding research, May 9th 2013.