School of Engineering

A Sample of Faculty Publications and Activities

2007 - 2009
Christian Bach  
Visiting Assistant Professor  
Technology Management

**PUBLICATIONS**


Hassan Bajwa
Assistant Professor
Electrical Engineering

PUBLICATIONS:
3. Isaac Macwan, Vignesh Veerapandian, Hasan Bajwa, Xingguo Xiong "VHDL Implementation of High-Performance and Dynamically Configured Multi-Port Cache Memory”, 2009 Northeast American Society of Engineering Education Conference (ASEE’09), Bridgeport, CT, Apr. 3-4, 2009

SYNERGISTIC ACTIVITIES:
Designed and developed graduate level courses that encompass theory lectures and hands on lab experiments.

- Served as “Chair, best student paper award” in American Society for Engineering Education (ASEE).
- Serving as organization committee member in Remote Engineering and Virtual Instrumentation (REV) 2009 conference. Member of professional societies such as Institute of Electrical and Electronics Engineers (IEEE) and (ASEE).
- Member of nano curriculum formed by Connecticut department of higher education and supported by Center of Advanced Technology (CCAT). Connecticut higher education formed this committee to integrate continuously evolving Nano-Science to engineering and science curricula.
- Organized summer camp held annually at University of Bridgeport. This camp is designed to foster students’ interest in science and engineering technologies.

OTHER SIGNIFICANT PUBLICATIONS:


CURRENT RESEARCH FOCUS:

**Nano-structured Flexible Patch Antenna:** Research is focused on developing and simulating a nano-structured flexible patch antenna array for multi frequency operations in Industrial, Scientific and Medical (ISM) band. Patch antenna design has been simulated with cotton as a substrate and CNT as conductive patch and ground plane. Exciting applications of such flexible patch antenna can be found in the fields of wearable electronics, implantable biomedical antennas and devices.

**Low Power Sensor Nodes:** Current research efforts in designing low power sensor nodes focus on improving battery life by using RF power to support wakeup mechanism of power efficient sensor node.

**Low Power SRAM:** Research is focused on implementing recently proposed low power dynamically configured SRAM in deep-submicron technologies.

AWARDS & GRANT ACTIVITIES:

Status: Awarded $6900/1 year, Agency: Seed money grant awarded by University of Bridgeport.


STUDENTS AND RESEARCH PROJECTS SUPPORTING STEM INITIATIVE:
Title: Design of patch antenna for energy harvesting
Students: Jasmine Martich, Akshat C. Patel, and Miral P. Vaghela

Title: Modeling of Piezoelectric Sensor and Piezoelectric Actuators
Student: Jose, Justin S.  Esther, Teo.

TITLES OF COURSES TAUGHT IN THE LAST TWO YEARS:
2008 – 2009 Low Power VLSI, Analog VLSI and RF circuit Design
2007 – 2008 CMOS VLSI and C++ for Engineers

CURRENT AND PAST COLLABORATORS:
Navarun Gupta (UB) Prabir Patra (UB) Xingguo Xiong (UB)
David Crouse(CUNY) Sohail Hussain (YALE) Xinghao Chen (C

Buket D. Barkana
Assistant Professor
Department of Electrical Engineering

PUBLICATIONS

Journal Papers:
N. Gupta, Barkana B.D., L.V. Hmurcik, “Two real-life fatal burn cases including smoke inhalation and power line burns”, Burns, 2009, (under review).


Conference Papers:


**SCIENTIFIC SERVICES**

Workshop Organizer/Chair: Title: Engineering Education in Grades 7-12, ASEE Northeast Conference, April 3-4, 2009, Bridgeport, CT, USA

Program Committee Member:
Review Chair at ASEE Northeast Regional Conference, Bridgeport, April 3-4, 2009.

Session Organizer/Chair:

Judge:
Poster Presentations at ASEE Zone 1 Conference 2008, West Point, NY,
Poster Presentations at ASEE NE Conference 2009, Bridgeport, CT,
Bridgeport Public Schools (BBOE) Science Expo 2009, Bridgeport

REVIEWER:
The First International Conference on Computer, Control & Communication (IC^4), 2007.
ASEE Zone 1 Conference 2008, West Point, NY.
ASEE NE Conference 2009, Bridgeport, CT.

UNIVERSITY SERVICES:
Organized Amistad Academy’s visit to SOE, University of Bridgeport, May 28, 2009.
Dean’s Assistantship Award Committee, Fall 2008, Spring 2009.
Faculty Council Committee, Spring 2009.
Library Liaison for Fall 2008 and Spring 2009.
Organizer of the School of Engineering Colloquium Series for Fall 2008 and Spring 2009 at University of Bridgeport.
Graduate Fellows Selection Committee, Fall 2008.
Admission committee member for Department of Electrical Engineering, University of Bridgeport: 09/2007-present. Review graduate admission files for Electrical Engineering department.

Served for student course registration for Department of Electrical Engineering: 2008- present. Guided students in their course registration for each semester.

Served in new faculty recruitment process for Department of Electrical Engineering, 2007 – present. Reviewed CVs from applicants for EE faculty position openings. Recommended outstanding candidates to the department for consideration. Interviewed candidates and submitted comments to the department and School of Engineering for consideration.

Prepared “International Student Survey for SOE, 2007-2008” at University of Bridgeport. For this study, Dr. Barkana collaborated with the Division of Student Affairs.

Julius Dichter
Associate Professor
Computer Science and Engineering

Spring 2009 - Reviewer of Cay Horstmann - Big Java, Wiley Publishers Summer 2009 - Reviewer of Cay Horstmann - Java For Everyone, Wiley Publishers
Khaled Elleithy
Professor
Computer Science and Engineering

Grants:
- Principal Investigator, “Implementation and Performance Evaluation of Overlay End System Multicast (ESM) for stable and Fast Streaming of Multimedia Applications,” University of Bridgeport Seed Money Grants, $10,000, Fall 2009.
- Co-Investigator, “Development, Demonstration and Deployment of Nanotechnology Enabled Intelligent Unmanned Autonomous Vehicles (IUAVs),” In response to the solicitation: Nanotechnologies, W15QKN-07-R-0210, $3,000,000, Pending.

Professional Activities:
Conference Chairman

Membership in Standing Committees
Member, IASTED Standing Technical Committee on Parallel and Distributed Computing and Systems. The committee is responsible for the planning and organization of IASTED activities such as meetings and publications.

Member, American Biographical Institute Research Board of Advisors. The American Biographical Institute publishes the following biographical reference works since 1967:
The International Directory of Distinguished Leadership
Publications:
Books

Book Chapters:

Journal Publications:

Conference Publications:


Honors
“Distinguished Professor of the Year”, University of Bridgeport, academic year 2006-2007.

Stephen Grodzinsky
Professor
Computer Engineering

Conference attendance in last five years:

- Attendance at International Conference on Computer Ethics and Philosophical Inquiry (CEPE), University of Twente, Netherlands, July 2005
- Attendance at ISTAS, WPI, June 2004
- Attendance at CEPE (Computer Ethics and Philosophical Enquiry), University of San Diego, July 2007
- Attendance at Gloria Rogers’ ABET meeting in Louisville, KY, 2008
- Attendance at CEPE, Ionian University, Greece, 2009
Navarun Gupta  
Assistant Professor  
Electrical Engineering  

Journal Papers:


Conference Papers

B. Barkana, N. Gupta, L. Hmurcik, “Improving Tools and Techniques of Teaching Graduate Engineering Courses Based on Students’ Learning Styles and Multiple Intelligences”, ASEE 2009, June 14-17, 2009, Austin, TX


Navarun Gupta, Buket Barkana, Lawrence V. Hmurcik, “Comparative Study of Binaural Sound Generation Using Two HRTF Databases”, abstract accepted, ASEE National Conference, Austin, TX, June 14-17, 2009.
Buket Barkana, Navarun Gupta, Lawrence V. Hmurcik, “Improving Teaching Tools and Techniques of Graduate Engineering Courses Based on Student’s Learning Styles and Multiple Intelligences”, abstract accepted, ASEE National Conference, Austin, TX, June 14-17, 2009.


Books
Online Engineering. Publisher: Springer, Book published May 2009

Editors: Saikat Ray, Navarun Gupta, Tarek Sobh

Contracts / Grants:
NSF Proposal: Nanotechnology Curriculum Integrating Undergraduate Education (Co-PI). Send April 29, 2009, Status: Pending

Other Activities:
- Co Chair or REV 2009 Conference. Hosted 105 participants from around the world at University of Bridgeport. June 22-25, 2009
- Co Chair of ASEE NE Regional Conference. Hosted about 400 participants at University of Bridgeport. April 3-4, 2009
- Chair of Dean’s assistantship Committee.
- Member of Biomedical Engineering Committee.
- Developed newsletter for School of Engineering for year 2008.
- Served on the search committee for hiring new faculty in Electrical and Computer Engineering (Fall 2008).
- Served on the search committee for hiring new Lab Engineer (EE/ME).
- Served on the search committee for hiring new faculty in Technology Management (Fall 2008).
- Served on the Technology Management Ph.D. proposal committee (Fall 2008).
- Representative from School of Engineering in Web Policy and Development Committee
- Faculty advisor for India Club.
- Judge in the International Festival, April 14, 2009.
- Represented University of Bridgeport in PTLW (Project Lead The Way) in Stratford High School. This program encourages high school students to take up Engineering as a career.
Lawrence V. Hmurcik  
Professor  
Department of Electrical Engineering

Conference Papers


Consulting:
1. On March 19, 2007, I did a site inspection in Kingston, PA, for Attorney Ciarimboli, 570-714-4878. The inspection was videotaped by both Plaintiff (my client) and Defendant. My investigation showed a design flaw in a Makita circular saw. The saw took too long to turn off, and hence it cut off my client’s toe.

2. On March 23, 2007, I did a site investigation in Bedford, NY for Attorney Green, 212 687 8181. A man was found burned alive under a powerline on his estate. I put together a most probable scenario of what had happened to cause the accident.

3. On April 24, 2007, I advised Connecticut Analytical Corp. on the construction of an OLED sandwich to be used in a portable photometer. OLED stands for organic LED.

4. On April 26, 2007, I was asked to review the US patent “Residential Load Center with Arcing Fault Protection”. The patent showed how a home computer can isolate an arc fault and shut down the guilty circuit without effecting the other circuits in the house.

5. On May 21, 2007, I worked again on the forklift case. Investigation focused on the battery being over charged.

6. On August 31, 2007, I worked on developing a patent for a portable device to monitor a person’s vital signs while they were working out at the gym. The patent was the brain child of a woman who works as a secretary and who needed guidance in this arena.


8. On September 25, 2007, I advised a man struck by lightning as he passed a building. He claims that building owner was liable because the building lacked lightning protection equipment. I found that under state law (CT) this accident was considered an act of God. It was not something that one could sue for.

9. On September 25, 2007, I advised attorney Attorney Solomon, of Ficke and Solomon, 622 Barlow Ave., Staten Island, NY 10312. A resident of Brooklyn bought an electric space heater. He set it up upside down. It burned the apartment building. It killed a young girl. I determined safety procedures that could have been used to prevent this accident.

10. On October 8, 2007, I worked on a NASA grant for Connecticut Analytical Corp. Electro-propulsion rockets are used for maneuvering the rocket and not for thrust. These can improve their ability to maneuver if one introduces external magnets into the electric field.

11. On October 18, 2007, I worked in Henderson, Nevada for Cox Communications Inc., 702 433 9902. I talked to their engineers about coding schemes for Fiber Optics data transmission, both past schemes and future directions.

12. On October 22, 2007, I spoke with representatives of Atomic Energy Canada LTD. We discussed electric machines used in the reprocessing of spent nuclear fuel.
13. On October 31, 2007, I had a second job in the Bedford Electrocution. Atty. Green and his assistants and associates had tried to find the legal documents necessary to prosecute the power company NYSEG. They could not. After one week of work, I found the documents pertinent to this case, and I was able to interpret same.

14. On November 9, 2007, I worked for Mr. Joe Bango of Connecticut Analytical. He need me to get supporting documentation for his patent: "Optical antivirus firewall for Internet, LAN, and WAN computer applications". This invention removes viruses by converting computer code from electrical bits to optical images and reconverting said images back to electrical bits. If a virus is attached to a legitimate code, it is unable to convert to an optical image.

15. On December 2, 2007, I was contacted by Dr. Ojalvo of Technology Associates about a case in Naples, Florida where a car caught fire. We determined that the most likely cause was lightning. Hence there was no defendant to be sued in this case.

16. On March 17, 2008, I concluded my investigation for Attorney Matthew Kelly 212 349 5150. Based on my report, the case settled in favor of Atty. Kelly's client, the widow of a man electrocuted when his boss had him put up a sign near a 13,000 volt power line. The voltage was strong enough to cause current to jump from the line to the lift bucket where the man was working. This procedure was in clear violation of New York City statutes, which governed the accident location (Staten Island).

17. On April 7, 2008, I was contacted by publisher John Wiley and Sons, 201 748 7739 to review the book Biomedical Instrumentation: Application and Design, by Dr. John Webster.

18. On May 1, 2008, I was contacted by Pitney-Bowes, Shelton, CT 203 337 3268 to implement an RFID control antenna.

19. On May 6, 2008, I worked again on the case of the circular saw. I completed my investigation and found that the incident saw was much improved in power efficiency over prior models. However, there were no extra safeguards built in to regulate the extra power.

20. On May 16, 2008, a devout Muslim (Mr. Mohammed Uddin) consulted me. He experience painful shocks when he bent down to pray on his prayer rug. I found that there was an accumulation of "dirt" and body oil on this most sacred rug, especially in the area where his forehead touched the rug. This was conductive and set up a path to ground. I recommended that he either get a new prayer rug or worship on a floor that was not conductive (best case - put a clean non-prayer rug under the orginal rug).

21. On August 15, 2008, I worked for Attorney Tim Salmon 212 318 6167. His client is Dr. Gertrude Rothschild. She has 2 patents for Blue LED's (# 4,904,618 and # 5,252,499). I was charged with working on several patent infringement cases.

22. On August 25, 2008, I worked for Dr. Ojalvo of Technology Associates for a case out of Naples Florida. An electrician was 15 feet above a warehouse floor on a makeshift platform. He received a shock and fell to his death. I determined that the shock was small and could only have produced minor injury. If he had been on a safety ladder or scaffolding, then he would not have fallen. He would NOT have died. His injuries would be trivial. The company was sued for un-safe practices.

23. On September 9, 2008, I worked for Attorney Mitchell Studley, 718 658 3000. A woman was burned in an Astoria Health Spa when she received electric shocks to various parts of her body to stimulate muscle massage. My investigation determined that the Spa re-used the pads applied to her skin. This made them less sticky. The contacts partially peeled off. This forced the electricity to travel through a smaller contact area, and this caused 3rd degree burns.

24. On October 27, 2008, I did an investigation on rocks and dust brought back from the moon. Under a NASA grant, Connecticut Analytical is investigating the photoionization of Lunar Regolith. They asked for my services to critique their experimental setup and to analyze their data.
25. On January 2, 2009, I did a job for Tech Associates. A garage door for a factory in Hartford, CT was being raised. When it came to the top it kept trying to go higher. The door was NOT a modern door with sensors. Hence the motor continued to drive the door up, even after it reached its maximum height. This caused a cable to brake and a workman to be injured. We found this was caused by improper maintenance and upgrading of the company hired to fix and monitor the door.

26. On January 23, 2009, I did a job for Tech Associates. They were investigating a man who claimed to be struck by lightning while on a construction job in Hawaii. We found that the worker’s injuries were extremely mild; they could be explained by another un-related accident.

27. On February 16, 2009, I did a job for Bridgeport Hospital in Bridgeport, CT. A patient was anesthetized and unconscious. He was to undergo surgery. He was producing a faint electric noise that interfered with the electrical signals being produced by the machines that monitored his physical activity. A simple, immediate cure for this problem was effected by having the patient’s hair taped to the metal post of the “bed” he was on. This grounded all electric signals produced within his body. More complex and long term solutions were also proposed.

28. On March 6, 2009, I was contacted to investigate an accident at the Mount Sinai Hospital in New York. A patient had a bronchoscope inserted into their lungs via their mouth. The bronchoscope exploded while inside the patient. Reasons for the accident were machine defects as well as the technician’s lack of training.

29. On April 3, 2009 I did a workshop for high school and college teachers along with Dr. Buket Barkana. My role was to discuss electric safety in the home. This workshop was part of the ASEE (American Society of Engineering Education) Northeast conference.

30. Beginning on May 11, 2009 and continuing to the present. I have been a consultant for a new book to be published on Digital Signal Processing or DSP. The authors are Vekatasubramanian Krishnamoorthy and Uma Viswanathan. Publication is expected in 2010/2011.

31. On May 21, 2009, I was questioned by Attorney Mark Dumas, Crumbie Law Group LLC, 280 Trumbull Street, 21st floor, Hartford, CT 06103, 860 725 0025. He has a case involving a person accused of tapping in to the power company’s electric line for free electricity.
Junling (Joyce) Hu  
Assistant Professor  
Mechanical Engineering

JOURNAL PUBLICATIONS

CONFERENCE PUBLICATIONS

POSTER PRESENTATIONS

GRANTS
1. J. Hu and H.L. Tsai, “Modeling Transport Phenomena and Shielding Gas Effects in Gas Metal Arc Welding”, University of Bridgeport Seed Grant, Office of Sponsored Research at UB, $7,000, 2009, funded.
2. J. Hu, “CFD Validation and Simulation of Airfoil Characteristics”, CT Space Grant College Consortium, $6000 and $12,000 in UB Matching Funds, 2007, funded.

WORKSHOPS & TRAININGS
Integration of Simulation Technology into the Engineering Curriculum (ISTEC) 2008 workshop, Cornell University, Ithaca, NY 2008
STAR-CCM+ (CD-adapco) seminar on Accurately Predicting Complex Cooling Flows and hands on workshop, Plantsville, CT 2008
Enhancing Teaching through Proper Techniques, United States Military Academy, NY, 2008
Laser Applications in Manufacturing Processes Seminar, University of Hartford, CT, 2006
STAR-CCM+ (CD-adapco) new user training, Detroit, MI, 2006
COMSOL Multiphysics Workshop, Hartford, CT, 2006
Flowtherm web Demos and web seminars, 2005 – present
NSF Regional Grants Conference, College Park, Maryland, 2006
DoD SBIR Proposal Workshop, New Britain CT, 2006
TRUST WISE Program, University of California – Berkely, CT, 2006
Laser Hole Drilling Workshop, Hartford, CT, 2005

PROFESSIONAL AFFILIATION
American Society of Mechanical Engineers (ASME) (2001 – present)
Member of K-15 Committee on Transport Phenomena in Manufacturing and Materials Processing in Heat Transfer Division (HTD)
Society of Women Engineering (SWE) (2008 – present)

PROFESSIONAL SERVICE
REVIEWER and PANELIST of PROPOSALS
National Science Foundation
CT Space Grant
REVIEWER of JOURNALS
ASME Journal of Heat Transfer
Journal of Physics D: Applied Physics
Journal of Micromechanics and Microengineering
Metallurgical and Materials Transactions B
Numerical Heat Transfer
Journal of Enhanced Heat Transfer
AIAA Journal
IEEE Transactions on Automation Science and Engineering
Optics & Laser Technology
Applied Physics B: Lasers and Optics
International Journal of Abrasive Technology
ASME Journal of Manufacturing Science and Engineering
REVIEWER of CONFERENCES
ASME Summer Heat Transfer Conference
ASME- International Mechanical Engineering Congress (IMECE)
International Conference on Industrial Electronics, Technology & Automation (IETA)
European Control Conference

CONFERENCE ORGANIZER
Session Chair, ASEE St. Lawrence Section papers, 2009 ASEE Northeast Section Conference, University of Bridgeport, April 3-4, 2009.
Session Chair, “Laser Applications in Manufacturing and Materials Processing”, ASME 2008 International Mechanical Engineering Congress (IMECE), Boston, MA, October 31 - November 6, 2008.
Session Chair, “Laser Applications in Manufacturing and Materials Processing”, ASME 2008 International Mechanical Engineering Congress (IMECE), Boston, MA, October 31 - November 6, 2008.
Technical Committee, International Conference on Industrial Electronics, Technology & Automation (IETA), Bridgeport, CT, December 4-14, 2006.

OTHER PROFESSIONAL SERVICES
Campus Director of Connecticut Space Grant College Consortium (University of Bridgeport), 2007 – present.
Judge for the Student Poster Competition at 2008 ASEE New England Section Conference.
Judge for the Bridgeport Public School Science Fair, 2008
Judge for the Student Poster Competition at 2007 ASEE New England Section Conference.
Webmaster of American Society of Mechanical Engineers (ASME) K-15 Committee

UNIVERSITY SERVICE
ME School Library Representative (08/2005 – present)
University Faculty Senate Representative (09/2006 – present)
University Faculty Council Representative (09/2006 – present)
ME/TCMG Faculty Search Committee (2006)
ME Faculty Search Committee (2007, 2008)
Appeals Committee for Undergraduate Academic Separation (2007)
Biomedical Program Committee of School of Engineering (2007 – 2008)
Academic Concerns Committee of the Faculty Council (10/2007 – present)
School of Engineering Merit Pay Committee (2008)
Technology Management Ph.D Committee (2008)
Dean’s Assistant Awards Committee
Sustainable Energy Engineering Committee of School of Engineering (2009 – present)
Elif Kongar  
Assistant Professor  
Technology Management

Journal Publications
1. Rosentrater, K. and E. Kongar, *Greening the Curriculum: Augmenting Engineering and Technology Courses with Sustainability Topics*, Journal of Engineering and Applied Sciences (accepted to be published), 2009(Special Issue).

Book Chapters

Conference Papers


9. Kongar, E., Sobh, T., ‘Are We Accepting the Right Students to Graduate Engineering Programs: Measuring The Success Of Accepted Students Via Data Envelopment Analysis”, ASEE Conference, Pittsburgh PA, June 2008.


**Academic Activities**

- Keynote Speaker, IEEE Spring Colloquium, April 18, Bridgeport, CT, 2009.
- Program Committee (IPC), IASTED International Conference on Robotics and Applications, November 4-6, Cambridge, MA, USA, 2009.
- Program Committee, Int. Logistics & Supply Chain Congress, Nov. 5-6, Istanbul, Turkey, 2009.
- Session Chair, Session 3560, 2009 ASEE Annual Conference, Austin, TX, USA, June 14 - 17, 2009.
- Reviewer, ASEE 116th Annual Conference & Exposition, June 14 - 17, 2009, Austin Convention Center, Austin, TX.
- Member, LODER Third Logistics Contest Jury, Since 2007, Istanbul, TURKEY.

**Grant Applications**

- NSF Graduate Teaching Fellows in K-12 Education (GK-12) Program Solicitation NSF 09-549, SuSTEMability: Inspiring Connecticut's Next Generation of Scientists and Engineers Through STEM Partnerships (app. $3 M), Elif Kongar (PI), Jani Pallis (Co-PI), Kathleen Engelmann (Co-PI), and Natalia Romalis (Co-PI). Pending.
- UB SOE, Seed Money Grant, Establishing an Environmental Sustainability Program at the University of Bridgeport, $7,000. Elif Kongar (PI). Accepted.
• (FIPSE)--Special Focus Competition: European Union-United States Atlantis Program), Sponsor: Department of Education (Fund for the Improvement of Postsecondary Education Title: Transatlantic Degree Consortium Project, Total Amount: 180,000, Elif Kongar (Coordinator).

Jeongkyu Lee  
Assistant Professor – Computer Science and Engineering

Journal papers


Conference papers


**Book Chapter**


**Funded, Current and Pending Contracts**


4. 2009: JusTDo: Developing Automatic Judging System for Taekwondo Poomsae Videos, Seed money grant at University of Bridgeport, $10,000 (PI: Dr. Jeongkyu Lee, Granted)

5. 2008: Hybrid Projectile Design, U.S. Army Armament, Research Development & Engineering Center (ARDEC), $57,688 (Co-PI: Dr. Jeongkyu Lee, Completed)

Other activities

Patent


Professional Activities

Chair of

- 3rd International Workshop on Multimedia Data Mining and Management (MDMM’09) in conjunction with DEXA, Sep. 2009, Linz, Austria.
- 2nd International Workshop on Multimedia Data Mining and Management (MDMM’08) in conjunction with DEXA, Sep. 2008, Turin, Italy.
- 1st International Workshop on Multimedia Data Mining and Management (MDMM’07) in conjunction with DEXA, Sep. 2007, Regensburg, Germany.

Program Committee of

- IEEE International Symposium on Multimedia (ISM 2006), Dec. 2006 (Session chair of Special Track on Doctoral Dissertation in Multimedia)

Other Professional Services

- Faculty Research Council representing School of Engineering at University of Bridgeport, 2008 – Present.
- Committee member of Academic Concern Committee in Faculty Council at University of Bridgeport, 2008 – Present.
- Chair of Faculty Search Committee at Department of Computer Science and Engineering, University of Bridgeport, 2008 – Present.
- Committee member of Faculty Search at Department of Computer Science and Engineering, University of Bridgeport, 2008 – Present.
- Chair of Academic Standards Committee at School of Engineering, University of Bridgeport, 2008 – Present.
- Committee member of Ph.D. program in Technical Management, University of Bridgeport, 2008 – Present.
Neal Lewis  
Associate Professor  
Technology Management

Journal Papers


Conference Papers


Lewis, Neal; Eschenbach, Ted; and Hartman, Joseph. "Sensitivity Analysis of a Real Options Problem.” 2007 Industrial Engineering Research Conference, Institute of Industrial Engineers.

**Book Chapters**


**A Sample of Funded, Current and Pending Contracts**

Neal Lewis, Seed Grant, “Modeling Manufacturing Performance for Production Efficiency Improvement” funded to start Fall 2009. $6,860.

**Other Notable Faculty/Student Activities**

Neal Lewis, along with co-authors Ted Eschenbach and Joseph Hartman, received the Eugene L. Grant Award in June 2009, presented at the annual meeting of the Engineering Economy Division of the American Society for Engineering Education for the best paper published in *The Engineering Economist*. The winning paper was “Can We Capture the Value of Option Volatility?” The award includes a $1000 gift (shared among the authors).

Lewis, Neal. “Real Options Analysis.” Presentation to the University of Bridgeport, School of Engineering Colloquium, October 4, 2007.

**Faculty Activities**

**Academic Activities**
• Member, American Society for Engineering Management, 2007-2009.
• Member, International Society for Pharmaceutical Engineering, 1995-2009.
• Member, Portland International Conference for the Management of Engineering and Technology, 2007-2009.
• Session Chair, ASEE Zone 1 Conference, Bridgeport, CT, April 2009.
• Session Chair, ASEE Zone 1 Conference, West Point, NY, March 2008.
• Reviewer, Technology Management Handbook, to be published by Wiley.

Campus Activities
Chair, School of Engineering Curriculum Committee, 2008-2009.
UB Graduate Council, SOE representative, 2008-2009.
SOE Merit Committee, 2008.
Biomedical Engineering program proposal committee, 2007-2008
Faculty search committees
Created 3 new courses: Foundations of Manufacturing Management (TCMG/MEEG 530), Engineering Economics and Management (TCMG 546), and Introduction to Graduate Studies (TCMG 499). First coordinator of the new course Contemporary Issues in Communications and Quantitative Methods (TCMG 495).
Zheng (Jeremy) Li  
Associate Professor  
Mechanical Engineering

Conference Papers:
5. Zheng (Jeremy) Li, 2008 “Study and Computational Simulation an A New Type of Biomedical Auto-suture Instrument”, 2008 International Conference on Biomedical Engineering and Informatics, Sanya, China.

Journal Publications:

**Research Grant and Funding:**
1. University of Bridgeport Seed Grant, 2009: “Computational Modeling and Analysis of Nanomaterial Coating Using Failure Modes and Effects Analysis (FMEA) with Focus on Lean Manufacturing”. Approved and funded with amount of $6,776.0.
3. Connecticut Center for Advanced Technology (CCAT) and National Aerospace Leadership Initiative (NALI) Project: “Modeling, Simulation and Optimization for Manufacturing Process Control and Validation Using the Failure Modes and Effects Analysis (FMEA) with a Focus on Lean Manufacturing”. Pending.

Ausif Mahmood
Professor
Computer Science and Engineering
Chair, Program Technical Committee, CISSE 2008 (International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering)

Chair, Program Technical Committee, CISSE 2007 (International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering)

**Books:**


"Novel Algorithms and Techniques in Telecommunications and Networking”
Tarek Sobh, Khaled Elleithy, Ausif Mahmood, Springer 2009

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**Jani Macari Pallis**
Associate Professor, Department of Technology Management

**Research Grants**


Jani Pallis, “International Research and Education in Processing Voluminous Datasets from Multiple Heterogeneous Sources”, NSF - Partnerships for International Research Education (PIRE), J. Pallis is a senior investigator, coordinator for UB. To be submitted August, 2009.
Jani Pallis, “Establishing an Environmental Sustainability Program at the University of Bridgeport”, University of Bridgeport – Seed Money Grant, J. Pallis is the co-PI, $7,000. Funded.
Jani Pallis, Director and Founder “Get SSET – Sport Science, Engineering and Technology”, Pre-College Residential Summer Academy at MIT (2003-2005), Stanford University (2005), University of San Diego (2006-2007), multiple grants and funding sources, $125,000 (approx.)
Jani Pallis, “Math To The Moon … And Beyond”, NASA, 36 units (144 lesson plans) on the math behind the engineering and science of space flight and space operations, $271,444. Funded

Current Publications

Recent Awards
Distinguished Citizen, Alpha Gamma Delta Fraternity, to be awarded at 2010 international convention.

University Service
Best paper chairperson, ASEE NE Conference, Bridgeport, CT, April, 2009.

Faculty Advisor, University of Bridgeport, proposed Engineers for A Sustainable World chapter
Society of Women Engineers Counselor proposed University of Bridgeport Section
Established University of Bridgeport Society of Women Engineers Scholarship.

Academic Activities
Editorial Board (current), Sports Engineering, Sheffield, UK.
National Chair (2007-2008), Current Member, International Participation Committee, Society of Women Engineers
Reviewer, Sports Technology
International Sports Engineering Association (past officer, board member and trustee; member, 2001-2008)
Member (2008), Society and Aerospace Technical Committee, American Institute of Aeronautics and Astronautics.
Prabir Patra  
Assistant Professor  
Mechanical Engineering

Journal articles


5. Nanostructured Surfaces for enhanced protein detection, V.Kunduru, J.Grosch, M.Bothara, P.K.Patra, S.Sengupta and S. Prasad, communicated to J. Nanotechnology, 2009


Book chapter:

Selected presentations/talk at conferences

1. Flame Retardant Nanocomposites based on PP and CaCO3, S.Deodhar, P.K.Patra, Q.Fan, K. Shanmuganathan, ACS meeting, Salt Lake City, Utah, 2009


3. Prabir Patra, Sankha Bhowmick and Ming Chen, " Tissue Engineered Nanofibrous Scaffold" conference on sustainable and responsible nanotechnology, Monterrey, Mexico, December 9-12, 2008


15. North East Regional conference, Bridgeport, CT, 2009
Gad J. Selig
Senior Lecturer
Technology Management

PUBLICATIONS:
Books:


Refereed Journal Articles, Conference Proceedings and/or Conference Presentations
Selig, Gad J., “The Critical Role of the Project Manager and Governance in Successful Strategic Sourcing and Outsourcing Initiatives,” Eighth Annual Smart Sourcing Conference, Marriott Hotel, Jersey City, NJ, August 24-25, 2009.


Selig, Gad J., “Managing Accelerating Change and Innovation,” SNEC PMI Chapter Meeting, February 6, 2007, Marriott Courtyard, Orange, CT.

UNIVERSITY COMMITTEES AND OTHER EVENTS/ACTIVITIES:

Chair, PhD Program in Technology Management Committee (Spring 2008 – Present) – developing an inter-disciplinary PhD degree spanning the Schools of Business and Engineering and focusing on a balance of entrepreneurship/ corporate entrepreneurship/ technology new venture creation and current/emerging technologies (e.g. IT; environment & energy technology; financial engineering; manufacturing, supply chain and logistics technology and systems and bio-technology and bio-medical engineering.

Winner of the CT Business Plan Competition – Advisor to Schools of Business and Engineering teams that won first place in the Graduate New Venture Business Category. UB teams won in 4 out of the last 7 CT Business Plan competitions. The competition is open to all universities in the State of CT and is sponsored by the State of CT Economic Development Department, the CT Venture Group and CT Innovation Corporation.

Member, Committee that Developed New Concentrations for the MBA, MS and the new Dual Graduate Business and Engineering Degree Programs – 2006 – 2007

Center for Interdisciplinary Business, Engineering and Technology Leadership (CIBETL) – Transitioned the CBIT Board to the CIBETL Board, consisting of senior industry executives who provide advise and counsel for select education programs and internship opportunities for UB Engineering and Business students – 2003 – Present.

International Student Recruitment Pilot – Conceived of the idea to use current international students to visit their home country universities and help identify future UB students. Worked with Admissions to implement plan.

UB Accelerator/Incubator – UB was recently approached by Connecticut Innovation to assess our interest in establishing a technology accelerator/incubator on the campus of UB. We are in the process of conducting a high level feasibility study. There seems to be lots of interest in this idea at this time from the SOB, SOE, City of Bridgeport and various economic development entities in the State of CT and other Fairfield county towns.

IAMOT Accreditation of the MS in TM Degree Program – UB’s MS in TM Degree program is one of the first programs to become a candidate for accreditation by IAMOT (International Association of
Management of Technology). This will help to validate the UB program’s peer review standing and add a credential to help market both the MS and the potential PhD in TM program to a global audience.

**PROFESSIONAL ASSOCIATIONS, MEMBERSHIPS, HONORS, CERTIFICATIONS and ADDITIONAL INFORMATION:**

COP Certification - Awarded the “Certified Outsourcing Professional (COP)” certificate by the International Association of Outsourcing Professionals, December 2006.

Elected into Delta Mu Delta, the National Honor Society in Business Administration, June, 2004

Certified as a Project Management Profession (PMP) by PMI (Project Management Institute) and member of PMI, January, 2003 to Present

Winner – CT Business Plan Competitions – Advisor to MBA and TM student teams that won the CT Business plan competition in the Fall, 2005, Spring 2006, Fall 2006 and Fall 2007.

COP Certification - Awarded the “Certified Outsourcing Professional (COP)” certificate by the International Association of Outsourcing Professionals, December 2006

Member, International Association of Outsourcing (IAOP) Professionals, 2006 – Present

Elected into Delta Mu Delta, the National Honor Society in Business Administration, June, 2004

Certified as a “Project Management Profession (PMP),” by PMI (Project Management Institute) and member of PMI, January, 2003 to Present

Member, Society of Information Management (SIM), June 2003 – Present

Tarek Sobh
Professor
Computer Engineering

**Principal Publications of last five years:** (Sample; total over 200 publications)


S. Patel and T. Sobh, "Online Automation and Control". In the Journal of Online Engineering, Volume 2, Number 3, August 2006.

S. Patel and T. Sobh, "Laboratory Corner Paper: Online Automation and Control: An Experiment in Distance Engineering Education." In the IEEE Magazine on Robotics and Automation, Volume 13, Number 4, pp 91-95, December 2006.


• Sarosh Patel and Tarek Sobh, "Laboratory Corner Paper - Online Automation and Control: An Experiment in Distance Engineering Education", in the IEEE Magazine on Robotics and Automation, Volume 13, Issue #4, pp 91-95, December 2006.
• Tarek Sobh, Sarosh Patel and Rajeev Sanyal, "RISCBOT". Published in the Servo Magazine, pp 37-41, March 2006.
• Sarosh Patel and Tarek Sobh, “Online Automation and Control: An Experiment in Distance Engineering Education”. In the Journal of Online Engineering, Volume 2, Issue #3, August 2006.

Book Chapters:

Conference Papers:
• Mohammed Mohammed, Ayssam ElKady and Tarek Sobh, "New concept in optimizing Manipulability index of serial Manipulators, using SVD method" , CISSE 07.
• Ayssam Elkady and Tarek Sobh "Design and Implementation of a Multi-sensor Mobile Platform", CISSE 2008.
• Vipul Babriya and Tarek Sobh. Modeling a Deburring Process, Using DELMIA V5®, CISSE Conference December 5-13, 2008,Bridgeport CT.
• Sarosh Patel and Tarek Sobh, “Online Automation and Control: An Experiment in Distance Engineering Education”. In the proceedings of the International Remote Engineering, Virtual Instrumentation Symposium (REV 06), Maribor, Slovenia, June, 2006.

• Sarosh Patel and Tarek Sobh, “Online Automation and Control: An Experiment in Distance Engineering Education”. In the proceedings of the American Society for Engineering Education (ASEE 06) Annual Conference, Worcester, Massachusetts, USA, March 2006.

• Sarosh Patel, Tarek Sobh and Rajeev Sanyal, “RISCBOT: An Experimental Telerobotic System”. In proceedings of the Annual International Conference on Robotics and Applications (RA 05), Cambridge, Massachusetts, USA, October 2005.


Scientific and professional societies:
• Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), 1988-1991 (Student Member), 1991-1997 (Member), 1997-present (Senior Member).

• Senior Member of the Society of Manufacturing Engineers (SME), 1996-present.

• Member of the American Society of Engineering Education, 1995-present.

Sample of Honors, Awards and Grants:
• Honorary Membership, Delta Mu Delta (The National Honor Society for Business Administration, Connecticut Theta Delta Chapter), for exceptional performance and achievements in managing the School of Engineering as a business unit at the University of Bridgeport from 1999-2002.

• AMSE Honorary Life Membership awarded October 1999.


Sample of Funded Research Contracts:
• U.S. Army Research Center Grant for project entitled: “Hybrid Projectile Design”, 8/1/08-5/31/09, $50,000

• Connecticut Center for Advanced Technology Grant for project entitled: “Center for Simulation, Modeling and Analysis for Robotic Applications”, 1/1/08-12/31/08, $40,000

• “Development of a high reliability, multi-algorithm facial recognition system based on web services,” IQEntertainment, June 2002, through June 2003, $125,000 shares, Funded.


• “NSF Engineering Assessment Workshop”, NSF, held on UB’s campus in September 2001, Funded.

``Establishing the Robotics, Intelligent Sensing and Control (RISC) Laboratory at the University of Bridgeport,'' Future Engineering Systems, January 1996, through May 1997; $33,000, including $16,500 in University of Bridgeport matching funds, Funded.
``Sensing Strategies for Advanced Manufacturing'', ARPA, Sept 1, ‘93, through Aug. 31, ‘96; $886,718; Funded.
``Sensing for Inspection and Reverse Engineering'', Augmentation Awards for Science and Engineering Research Training, Defense Advanced Research Projects Agency (DARPA) / Office of Naval Research (ONR), July 1, ‘93, through June 30, ‘96; $244,470; Funded.
``Utilizing URK (Utah Robot Kit) through Multi-Media Technology'', Office of Naval Research, July 1, 1994, through March 31, 1995; $40,000; Funded.
``CISE Research Instrumentation'', NSF, January 1, 1994, through December 31, 1994; $37,310 plus $18,656 in University of Utah matching funds, Funded.
``Real-Time Control Systems'', Univ. of Utah Research Equipment Support Funds, July 1, ‘93, through June 30, ‘94; $14,225; Funded.
``CISE Research Instrumentation'', NSF, January 1, 1993, through December 31, 1993; $57,606 plus $28,803 in University of Utah matching funds, Funded.
``Computer Aided Reverse Engineering'', University of Utah Research Committee, Nov. ‘92, through Oct. ‘93; $4,924; Funded.

Institutional and professional service in the last five years (Sample):
• Member, President Cabinet (2008-present).
• Member, University Planning Review Board (2002-present).
• Member, University Planning Council (2001-present).
• Member, President Advisory Council (2000-present).

Consulting, Patents, etc.: (Sample)
• Standard and Poor’s Society of Industry Leaders. [2006 – present] Board Member.
• Nitron Advisors, LLC. [2006 – present] Board Member, Circle of Experts.
• Scientific Advisory Board, the International Association of Online Engineering. [2006 – present] Board Member and Founding Co-Chair.
• Tennessee Board of Regents. [1/2001] External Reviewer, Master of Science in Computer Science program, TTU.
• Data Solutions, Inc. [6/98 – 9/98] Team leader (Led a team of 40 programmers), Y2K compliance project, 20+ New York Hospitals, approximately 20,000 compute platforms (in networked environments) were checked, prepared, and certified for Y2k compliance.
• The World Bank and Purdue University. [6/97 – 6/98] Setting up infrastructure to support Robotics and Automation programs in Malaysia.

Patents and Inventions:

**Recent Professional development activities (Sample)**

**Recent Editorial Duties:** (Sample)

- Editorial Board Member - International Journal of Online Engineering, since June 2006.
- Editorial Board Member – Advances in Computer Science and Engineering, since December 2006.
- Associate Editor of the International Journal of Science and Technology since 2000.
- **Guest Editor, Special Edition of the “Journal of New Mathematics and Natural Computing”, November 2007**
- **Member, Editorial Board, Journal of Computing. Published by the Ternopil Academy of National Economy, Ukraine, since 2002.**
- **Associate Editor of the International Journal of Science and Technology.**

**Recent Conferences Duties (Sample):**

- Chairperson, International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 4-12, 2009
- General Chairperson, 2009 Remote Engineering and Virtual Instrumentation International Conference, June 22-25, 2009
- Chairperson, 2009 American Society of Engineering Education Northeast Region Conference, April 3-4, 2009
- General Chair, Second International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2006), December 2006 ([http://www.cisse2006.org](http://www.cisse2006.org)).

**Other assigned duties:**

- Work on developing international sites and collaborative agreements for the University of Bridgeport in several countries.
- Creating the interdisciplinary laboratory: “Robotics, Intelligent Sensing, and Control (RISC),” at the Department of Computer Science and Engineering, University of Bridgeport.

**Programs to improve teaching and professional competence:**

- Participated in over 20 workshops and conference in the last four years and a regular participant in the Engineering Dean’s Meetings and the ASEE ABET and assessment workshops.
Abhilasha Tibrewal
Lecturer
Computer Science and Engineering

Service to the Department
- ABET Coordinator since Sept 2007
- Faculty Advisor, UPE, honor society of computing sciences since May 2008

Service to/for the University
- Serving on Academic Review Committee (since Fall 2005) and Academic Appeals Committee (Summer 2006)

Service to Profession/Discipline

Conference Presentations & Organization
Grants

- Member of Transatlantic team (K. Henke et al) that put together the proposal entitled “EU-US ATLANTIS PROGRAMME COOPERATION IN HIGHER EDUCATION AND TRAINING TRANSATLANTIC DEGREE CONSORTIUM PROJECT: RETEMA: Remote Engineering and Technology Management”. Submitted in Feb 2009.

Reviewer


Member

- Member, ACM, since May 2001.
- Member, ASEE, since June 2002.
- Member, SWE, since May 2008.

Awards

- Selected for recognition as UB’s Distinguished Professor of the Year for the academic year 2008-2009.
- Member, Upsilon Pi Epsilon, Honors Society for the Computing and Information Disciplines, since 2002.
- Member, Phi Kappa Phi, National Honors Society, since 2002.

Zhengping Wu
Assistant Professor
Computer Science and Engineering

Publications

Book Chapter

Journal Papers


Conference Papers


**Professional Services**

Reviewer of IEEE Transactions on Services Computing
Reviewer of IEEE Transactions on Systems, Man, and Cybernetics (Part A)
Reviewer of IEEE Transactions on Industrial Electronics
Reviewer of the World Wide Web Journal
Reviewer of the 2008 IEEE International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering
Technical Program Committee Member of the 2009 ASEE Northeast Conference
Technical Program Committee Member of the 2009 International Conference on Intensive Applications and Services
Technical Program Committee Member of the 2009 International Conference on Advanced Service Computing
Technical Program Committee Member of the 2010 International Conference on Intensive Applications and Services
Session Chair of the 2009 ASEE Northeast Conference
Session Chair of the 33th Annual IEEE International Computer Software and Applications Conference
National Science Foundation Proposal Review Panelist 2009

**School Services**

Committee Member of the New Faculty Search Committee in the Department of Computer Science and Engineering (Fall 2008)
Committee Member of the qualification exam for the Ph.D. program of Computer Science and Engineering (Fall 2008)
Committee Member of the New Faculty Search Committee in the Department of Computer Science and Engineering (Spring 2009)
Committee Member of the admission committee for the Ph.D. program of Computer Science and Engineering (Spring 2009)

**Community Service**

Judge of the Science Fair for the Bridgeport public school system (Spring 2009)
Funding Activities
National Science Foundation (NSF), “Architectural Innovation of Policy-based Management for Cross-domain Collaboration,” $400,000 (PI) (pending)


University of Bridgeport Research Seed Money Grant, “A New Policy-based Management Architecture for Cross-domain Federation,” $6,409 (PI)

Xingguo Xiong
Assistant Professor
Electrical Engineering and Computer Engineering

FUNDED PROJECTS

- Hassan Bajwa, Xingguo Xiong, "Area Efficient Low Power SRAM Design", designed for MOSIS Educational Program (Research), 10/14/2008. This proposal is funded by MOSIS with allocated proposal ID: 5031WN8DMQ. The chip will be fabricated for University of Bridgeport at no cost. According to the previous price quote from MOSIS, this is equivalent to a funding of $125000 for the chip fabrication.

- Xingguo Xiong (PI), Linfeng Zhang (co-PI), Hassan Bajwa (co-PI), "A Bulk-micromachined MEMS Comb Vibratory Gyroscope", UB seed money grant proposal, submitted to Office of Sponsored Research, University of Bridgeport on 11/14/2008, Funds requested: $6930.00.

- Hassan Bajwa (PI), Xingguo Xiong (co-PI), "Dynamically Configured, Low Power SRAM Design", UB seed money grant proposal, submitted to Office of Sponsored Research, University of Bridgeport on 11/14/2008, Funds requested: $6650.00.

- Linfeng Zhang (PI), Angela Santiago (co-PI), Xingguo Xiong (co-PI), "Integration of the platinum nanoparticles and carbon nanotubes in silicon-based micro fuel cell and silicon-based chemical/biological sensor", UB seed money grant proposal, submitted to Office of Sponsored Research, University of Bridgeport on 11/14/2008, Funds requested: $6864.00.

PROJECTS APPLICATION

- Prabir Patra, Hassan Bajwa, Navarun Gupta, Xingguo Xiong, "Nanotechnology Curriculum Integrating Undergraduate Education and Research", submitted to NSF (National Science Foundation), EEC - Nanotechnology Undergraduate Education (NUE) program on 04/29/2009, funding required: $197,247.00, pending.
• Joined The Applied Nanotechnology Consortium (TANC) sponsored by the Connecticut Center for Advanced Technology (CCAT), 11/25/2008. Solicitation Number: W15QKN-09-X-0286. The interest is to work with the U.S. Army RDECOM-ARDEC to advance the state-of-technology in the research, education, design and manufacture, including secondary operations, of products using nanotechnology materials, and for producing and sustaining systems incorporating such materials.


• Collaboration with Prof. Linfeng Zhang for his NSF (National Science Foundation) research proposal “Hybrid theoretical/experimental studies of fundamental issues in the microsystems related to hydrogen”, 07/22/2008.

• Xingguo Xiong, "MEMS/VLSI in Hybrid Projectile Project", quad-chart proposal submitted to Army Research, Development and Engineering Center (ARDEC@Picatinny, NJ) on 07/08/2008.

• Xingguo Xiong, "A Built-In Self-Repair Technique for Capacitive MEMS Devices", research proposal submitted to Army Research, Development and Engineering Center (ARDEC@Picatinny, NJ) on 04/15/2008.

• Joined the international research consortium with SynTest, Inc. May 2008-present, aiming at research topics in VLSI testing.

• Xingguo Xiong, Linfeng Zhang, Junling Hu, “MEMS inertial navigation system for ARDEC”, project proposal submitted to Army Research, Development and Engineering Center (ARDEC@Picatinny, NJ) on 09/24/2007.

• Linfeng Zhang, Junling Hu, Xingguo Xiong, "Chem/Bio sensor/sensor system and Micropower device", project proposal submitted to Army Research, Development and Engineering Center (ARDEC@Picatinny, NJ) on 09/24/2007.

JOURNAL/CONFERENCE PAPERS


POSTERS


**PRESENTATIONS**

- Xingguo Xiong, “MEMS and Nanotechnology – Think Small and Dream Big”, presentation for ENGR-400 colloquium in University of Bridgeport, 12/04/2008.

**NOTABLE STUDENT AND FACULTY ACTIVITIES**

Conference 2008, United States Military Academy, West Point, NY, Mar. 28-29, 2008, accepted to be published.


FACULTY ACTIVITIES

- Committee member for developing M.S. program in Sustainable Energy Engineering in University of Bridgeport (Committee member: Linfeng Zhang, Xingguo Xiong, Junling Hu, Zheng Li, Angela Santiago), 02/2009. Prepared license application for Master of Science Program in Sustainable Energy Engineering in University of Bridgeport.

- Member of the Professional Yearly Merit Review committee for all faculty in School of Engineering, 07/11/2008. Worked with other committee members to review faculty in School of Engineering for merit in academic year 2008.

- Member of Internal Review Committee (IRC) for reviewing degree programs in University of Bridgeport: 03/2007 – present. Reviewed degree programs for Math, International Political Economy & Diplomacy, Music.

PROFESSIONAL SERVICES

- Committee member for developing MS program in Sustainable Energy Engineering (SEE), 01/2009-present.


- Served as judge in student poster competition of ASEE Zone 1 Conference 2008, United States Military Academy, West Point, NY, Mar. 28-29, 2008.

- Served as judge in student poster competition of American Society for Engineering Education’s New England Section Conference (ASEE’07), University of Rhode Island, RI, USA, Apr. 20-21, 2007.

REVIEWER FOR CONFERENCE/JOURNALS

- The Sixth International Conference on Remote Engineering and Virtual Instrumentation (REV’2009), Bridgeport, CT, June 22-25, 2009.


- IEEE International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE’08), Dec. 5-13, 2008


Linfeng Zhang
Assistant Professor
Electrical Engineering
Journal papers

Conference papers
1. Linfeng Zhang, Xingguo Xiong, Junling Hu, Integrating alternative energy technology into engineering education, ASEE 2009 annual conference and exposition, Austin, TX
2. Xingguo Xiong, Linfeng Zhang, Junling Hu, Lawrence Hmurcik, Introducing the small world – developing mems/nanotechnology curriculum, ASEE 2009 annual conference and exposition, Austin, TX
3. Xingguo Xiong, Linfeng Zhang, Lawrence Hmurcik, Self-repairable MEMS comb accelerometer, ASEE NE, Bridgeport, CT April 3-April 4
4. Linfeng Zhang, Xingguo Xiong, Junling Hu, Developing a new graduate program in sustainable energy engineering, ASEE NE, Bridgeport, CT April 3-April 4

Book proposal review
1. Circuit Simulation, Farid N. Najm, John Wiley & Sons

Proposals
1. Title: Research and development of hydrogen sensor technologies, Department of Energy, PI: Linfeng Zhang ($953,753)

Donation
Electron Probe Microanalyzer from National Renewable Energy Lab, original price $660,000

Eman Abdelfattah
Adjunct Professor
Computer Science and Engineering


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Manan Joshi
Adjunct Professor
Electrical Engineer

Conference Publications
1. Manan Joshi, Sarosh Patel and Lawrence Hmurcik, "Improvements in Electrocardiography Smoothening and Amplification". In the proceedings of the American Society for
Engineering Education (ASEE 08).

2. Sarosh Patel, Manan Joshi and Lawrence Hmurcik, "A Modern but Simple Approach to Teaching Friction". In the proceedings of the American Society for Engineering Education (ASEE 08).

3. Manan Joshi, Sarosh Patel and Dr. Lawrence Hmurcik, "EKG De-noising using 1-D Wavelets Techniques". In the proceedings of the American Society for Engineering Education (ASEE 09).

4. Sarosh Patel, Manan Joshi and Lawrence Hmurcik, "EKG De-noising using 2-D Wavelet Techniques". In the proceedings of the American Society for Engineering Education (ASEE 09).

Syed Rizvi
Adjunct Professor
Computer Science and Engineering

PUBLICATIONS:

CONFERENCE PAPERS:


35. Varsha Edla, **Syed S. Rizvi**, and Aasia Riasat, "A New Software Based Approach for Minimizing Interference in RFID Application," The 9th INFORMS Telecommunications


**BOOK CHAPTERS:**


**JOURNAL PAPERS:**


**PRESENTATIONS**


10. “Optimization of Null Message Algorithm in Large Parallel and Distributed Systems” presented in the WMC Lab, Tech Building, University of Bridgeport, on April 7, 2007.

**AWARDS AND RECOGNITION**

1. UB, Fall-09 Seed Money Grant Awards, Co-PI, $6,860, February 2009.

2. Received Best Paper Award from 13th IEEE Symposium on Computers and Communications (ISCC’08), Marrakech, Morocco, July 6 - 9, 2008.