College of Computing,
Engineering and
Construction
Annual Report of Faculty Scholarship
2004-2005
College of Computing, Engineering and Construction

Books

Department of Computer and Information Sciences


Refereed Publications/Conference Proceedings

Department of Building Construction Management


Malek, Mag, “Global Learning Technology and Assessment,” International Association for the

Department of Computer and Information Sciences


Ahuja, Sanjay P., “A Distributed Computing Course with Java Based Middleware Projects,”
Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA '04), June 2004.


Yang, Y., Elfayoumy, S., and Ahuja, Sanjay P., “Anti-Spam Filtering Using Neural Networks,”
*International Conference on Machine Learning; Models, Technologies and Applications*
(MLMTA '04), June 2004.

Sherif Elfayoumy, Rahul Shrivastava, and Sanjay Ahuja, “A Web-Based Xml Editor,”

Sherif Elfayoumy, Yue Yang, and Sanjay Ahuja, “Anti-Spam Filtering Using Neural Networks,”

King, Ronnie, “Multicast Address Allocation on Zeroconf Networks”,

W. Klostermeyer and G. MacGillivray, “Homomorphisms and Oriented Colorings of Equivalence Classes of Oriented Graphs,”

W. Klostermeyer and G. MacGillivray, “Pushing Vertices and Oriented Colorings,”

W. Klostermeyer and G. MacGillivray, “Analogues of Cliques for Oriented Coloring,”

Tatiana Melnik and Zornitza Prodanoff, “Microsoft .NET and Security Provided by High-Level Internet Protocols,”
*2005 International Conference on Parallel and Distributed Processing Techniques and Applications* (PDPTA'05).

Patrick Crews and Zornitza Prodanoff, “Sensor Network Simulation for ITS Development,”


**Division of Engineering**


**Refereed & Invited Presentations**

**Department of Building Construction Management**

Research Alliance, February 2005.


**Department of Computer and Information Sciences**


Tatiana Melnik and Zornitza Prodanoff, “Microsoft .NET and Security Provided by High-Level Internet Protocols,” 2005 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'05).


Division of Engineering


2004/05 Contracts & Grants
Department of Building Construction Management

**Jensen, Donald**, Construction firm grants to fund the National American Builders Association student design competition, $6,500.

**Jensen, Donald**, Construction firm grants to fund the Hard Hat Banquet, $15,000.

**Jensen, Donald**, Construction firms grants to fund the Employment Showcase, $2,000.


**Lambert, J. David**, and **Mag Malek**, “Development of the Hurricane Damage Assessment Research Team (HDART)”, Mr. Don Poag, $5,000.

**Malek, Mag**, “Balcony Concrete repair for Stonewood Phase II: Hiring the Contractor,” Stonewood Towers Condominium Association, $5,000.

Department of Computer and Information Sciences

**Chua, Yap**, and **Behrooz Seyed-Abbassi**, “Encourage Student Research for 2005 CCEC Symposium”, Foundation Board of Trustees Initiative Grant, $5,500.

**Eggen, R. E**, Annual software license donation from Parasoft Corporation for “Insure,” “Jtest,” and “Codewizard” program products.

**Elfayoumy, Sherif**, “Using SAS Enterprise Miner to Teach Data Mining”, UNF Summer Teaching Grant, $5000.

**Roggio, Robert**, “Object-Oriented COBOL for Web Programming”, UNF Summer Faculty Teaching Grant, $5000.

**Roggio, Robert**, Annual software license donation from IBM for “Rational Rose”, “Requisite Pro”, and other associated Rational Software Products.

**Seyed-Abbassi, Behroz**, Intellectual Life Grant to support 2005 CCEC Symposium, $600.

Tatiana Melnik and **Zornitza Prodanoff**, “Microsoft .NET and Security Provided by High-Level Internet Protocols”, 2005 UNF Undergraduate Research Grant, $1500.
Division of Engineering


Alexander, John, “Monitoring Units and Transmitters for Alzheimer’s Patients,” TRx Integrations, $10,227.

Cox, Daniel, “First Coast Manufacturing Innovation Partnership,” National Science Foundation, $120,100.

Fletcher, James, “Implementation Support Services for the FDOT for the Mobile Retroreflectivity Unit,” Florida Department of Transportation, $50,385.

Hudyma, Nick, “Sink Holes in Dry Retention Ponds Phase II,” Universal Engineering, Florida Department of Transportation, $28,294.


Dr. Amir Mirmiran, Dr. Faris A. Malhas, and Dr. Zhenyu Zhu, “A Pilot Study for Assessing, Protecting, Sensing, and Hardening for Safety and Security of Florida Transportation Structures,” University Consortium for Intermodal Transportation Safety and Security, $98,000.

Jackson, N. Michael, “Implementation Support Services for the FDOT for the Mobile Retroreflectivity Unit,” Florida Department of Transportation, $50,385.


Schoninng, Alexandra, “First Coast Manufacturing Innovation Partnership,” National Science Foundation, $120,100.


Woolschlager, John, “JEAA Operations Optimization Project,” Jacksonville
Electric Authority, $20,000.


**Schonning, Alex**, Summer 2005 Scholarship Grant, “Material Testing of Bone Cement,” $5,000.


### Patents Obtained

**Lambert, J. David, John Alexander** and **Gerald Merckel**, The U.S. Patent and Trade Mark Office advises a third patent, “Modular Architecture for Rapid Deployment and Coordination of Emergency Field Surveillance” has been “Allowed”. This UNF patent is the third in a series of patents (U.S. Patent 6,574,340 and U. S. Patent 6,686,340) based on research conducted at UNF in the area of Emergency Management Systems. This research was conducted in the Applied Global Systems Laboratory.

**Vasana, Susan**, Chris Thomas, and Clint Powell, “Method and Apparatus for Gain Normalization of a Correlation Demodulator,” based on research conducted while at Motorola.