

AGENDA
PERSONNEL COMMITTEE
BOARD OF SUPERVISORS FOR THE
UNIVERSITY OF LOUISIANA SYSTEM
11:10 a.m., Thursday, December 6, 2018*
Room 100, "Louisiana Purchase Room"
Claiborne Conference Center
1201 North Third Street
Baton Rouge, Louisiana

MEMBERS:

Mr. Robert Shreve, Chair
Ms. Elizabeth Pierre, Vice Chair
Mr. James Carter
Mr. Richard Davis, Jr.
Ms. Lola Dunahoe
Mr. Thomas Kitchen
Mr. Virgil Robinson, Jr.
Mr. Winfred Sibille

- A. Call to Order
- B. Roll Call
- C. **Consent Agenda:**

Board Agenda Item I.1.

University of New Orleans' request for approval to appoint Dr. Taskin Kocak as Dean of Engineering effective January 14, 2019.

Board Agenda Item I.2.

University of New Orleans' request for approval to appoint Mr. Vince Granito as Interim Director of Athletics effective November 3, 2018.

- D. Other Business
- E. Adjournment

**** Executive Session, pursuant to R.S. 42:17, may be required.**

**BOARD OF SUPERVISORS FOR THE
UNIVERSITY OF LOUISIANA SYSTEM**

PERSONNEL COMMITTEE

December 6, 2018

- Item I.1.** **University of New Orleans' request for approval to appoint Dr. Taskin Kocak as Dean of Engineering effective January 14, 2019.**

EXECUTIVE SUMMARY

The University requests approval to appoint Dr. Taskin Kocack as Dean of Engineering effective January 14, 2019 at an annual salary of \$205,000. The staff recommends approval.

RECOMMENDATION

It is recommended that the following resolution be adopted:

***NOW, THEREFORE, BE IT RESOLVED,** that the Board of Supervisors for the University of Louisiana System hereby approves University of New Orleans' request to appoint Dr. Taskin Kocak as Dean of Engineering effective January 14, 2019.*



THE UNIVERSITY *of*
NEW ORLEANS
OFFICE OF THE PRESIDENT

11

November 8, 2018

Dr. James B. Henderson
President
The University of Louisiana System
1201 North Third Street
Baton Rouge, LA 70802

Re: Dean of Engineering

Dear Dr. Henderson,

The University of New Orleans requests approval to hire a replacement for the Dean of Engineering position. Dr. Taskin Kocak was selected by a committee through a national search.

Please do not hesitate to contact me should you have any questions.

Sincerely,

John W. Nicklow
President
University of New Orleans



THE UNIVERSITY *of*
NEW ORLEANS

ACADEMIC AFFAIRS

To: John W. Nicklow
President

From: Mahyar Amouzegar, Provost and Senior Vice President
Academic Affairs

Date: November 8, 2018

Re: Dean of Engineering Search

Based on feedback received from the search committee, my interactions with the candidates, and a review of the survey results, I would like to recommend Dr. Taskin Kocak for the position of Dean of the College of Engineering.

Dr. Kocak has the experience and commitment to the field of engineering that is needed to lead our college into a new era. He was able to demonstrate a robust vision of the college's role in the 21st century. Dr. Kocak has a strong fundraising record and leadership credentials.

Taskin Kocak, Ph.D.

Curriculum Vitae

Professor
Computer Science and Engineering
Bahcesehir University
Besiktas, Istanbul, Turkey
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Contents

1 Education	2
2 Employment	2
3 Administrative Experience	2
4 Awards and Honors	4
5 Research	4
5.1 Summary	4
5.2 Publications	6
5.3 Grant Activity	13
5.4 Invited Talks	14
6 Teaching and Student Supervision	16
6.1 Teaching Enhancements	16
6.2 Courses Taught (at UCF, Bristol and Bahcesehir)	16
6.3 Teaching Support Activities:	16
6.4 Funding Related To Teaching:	17
6.5 CO-OP Program	17
6.6 Student Supervision	17
7 Service	19
7.1 Professional Service Activities	19
7.2 University Services	20
8 References	21

1 Education

Ph.D., Electrical and Computer Engineering, 2001
Duke University, Durham, North Carolina, USA

M.S., Electrical and Computer Engineering, 1998
Duke University, Durham, North Carolina, USA

B.S., Electrical and Electronics Engineering, 1996
Bogazici University, Istanbul, Turkey

B.S. (*as a double major*) Physics, 1996
Bogazici University, Istanbul, Turkey

2 Employment

- 2009 - present: *Bahcesehir University*, Istanbul, Turkey
 - **Professor**, Dept. of Computer Science and Engineering (2017 - present),
 - **Professor and Dean**, College of Engineering and Natural Sciences (2014 - 2017),
 - **Professor and Chair**, Dept. of Computer Science and Engineering (2012 - 2014),
 - **Associate Professor and Chair**, Dept. of Computer Science and Engr. (2009 - 2012),
- 2007 - 2009: *University of Bristol*, England, UK.
 - **Associate Professor** (*with tenure*)¹, *Dept. of Electrical and Electronic Engr.*
- 2000 - 2007: *University of Central Florida*, Orlando, FL, USA.
 - **Assistant Professor**, School of Electrical Engr. and Computer Science (2001 - 2007),
 - **Director of Graduate Studies**, Computer Engineering Program (2002 - 2003),
 - **Visiting Lecturer**, Computer Science Program (2000 - 2001)
- 1998 - 2000: *Mitsubishi Electronics America, Inc.*, Durham, NC, USA.
 - **Design Engineer**,
- 1996 - 1998: *Duke University*, Durham, NC, USA.
 - **Teaching and Research Assistant**, Dept. of Electrical and Computer Engineering

3 Administrative Experience

Dean, College of Engineering and Natural Sciences (2014 - 2017)

Description of Responsibilities:

(1) Strategic planning, (2) faculty recruitment, (3) personnel, (4) research stimulation, (5) policy implementation, (6) fundraising, (7) alumni relations, (8) oversight of 10 academic departments, 65 tenure-track faculty, 25 lecturers and 15 staff, and over 4,700 undergraduate and 1,300 graduate students, (9) financial management of an annual budget of about \$16 million (\$4 million in research expenditures and \$12 million in educational and general funds), (10) oversight of the College's academic building and other infrastructure, (11) development of programs with our BAU sister universities, and (12) building partnerships with the private sector, K-12 school systems, and universities overseas.

¹UK academic staff classification: Senior Lecturer (permanent staff)

Accomplishments

- Increased undergraduate enrollments by 30% (approx. 2,000 new students, 500 international)
- Developed a framework for faculty annual performance review
- Established the School of Medical Engineering and Biological Sciences with the College of Medicine
- Formed an industrial advisory board for the College
- Recruited 24 faculty members (7 are international) and 9 administrative staff
- Established a communications directorship
- Established a research directorship
- Under my leadership and guidance, 24 research proposals were submitted in record number in one submission window (March 2015) to TUBITAK (Turkish NSF)
- 16 TUBITAK regular and CAREER grants won, 21 industry funded grants won. (TUBITAK grants' acceptance rates $\leq 15\%$)
- Established BAU-Virginia Tech Energy Management Lab
- Developed BAU-Stanford Robotics Lab
- Obtained industrial funding from Intel Corp. to establish IoT/Wearable Computing Lab
- Developed teaching labs for Civil Engineering program
- Introduced recitations for Calculus and Physics classes
- Started accreditation process for 4 departments
- Held Alumni reunions
- Developed international programs for undergrads in US, Germany, Italy, Hong Kong
- Held high school competitions (robotics) on campus
- Offered summer school for high school students
- Developed several graduate programs (incl., MS in Construction Management and MS in Big Data Analytics)
- Created a co-operative education program with Netas (now part of ZTE), a large telecom systems vendor
- Developed more than 25 elective courses taught by co-op industry partners (e.g., IBM Big Data and Analytics; Siemens Power Generation Business Management)

Chair, Computer Science and Engineering Department (2009 - 2014)

Accomplishments

- Under my leadership, the department secured externally funded research projects totalling 2M TL (approx. \$1M)
- Developed a PhD program.
- Founded a state-of-the-art Computer Networks and Mobile communications Laboratory.

- Obtained industrial funding from Samsung to establish mobile applications development lab
- Recruited faculty members from top schools
- Formed an industrial advisory board for the department.
- Revised senior design projects. Held a competition among the students and gave prizes for the top students.
- Secured a departmental server
- Started weekly seminar series.

Director of Graduate Studies (2002 - 2003)

Accomplishments

- Gave recruitment seminars in various institutions around the world which helped to get a 250% increase in number of Ph.D. applications and 40% increase in Ph.D. enrollments from the previous year.
- Introduced three new areas to the PhD qualifying exam: VLSI Design, Computer Networks, Modeling & Simulation.
- Modified the graduate curriculum to provide flexible course selection for M.S. thesis students that meet their research needs.
- These improvements along with the efforts of the following coordinators helped the Computer Engineering graduate program to be ranked for the first time by U.S. News and World Report in 2006-2007.

4 Awards and Honors

- Best Paper Award, *IEEE Trans. on Industrial Informatics*, 2012
- Research Collaboration Award, *Turk Telekom*, 2012
- Best Paper Award, *International Conference on Sensor Technologies and Applications (SENSORCOMM)*, Athens, Greece, 2009.
- First Silicon Success Award, Mixed-Signal Design Team, Mitsubishi Electronics America, Inc. (1999)
- Graduate Scholarship, Duke University (1996-1998)
- Undergraduate Fellowship, Turkish Education Foundation (1992-1996)

5 Research

5.1 Summary

My broad research interests and expertise span the areas of computer systems, computer networks, and GPU parallel computing. At Bahcesehir, I have had four major research projects on high-performance GPU computing for 10 Gbps communication systems, remote management of networked devices, smart transportation systems, and smart grid communications, funded by KDDI R&D Labs - Japan, Turkish Ministry of Industry and Trade, Alcatel-Lucent and Turk Telekom. One of our recent papers in smart grid communications made it to the **most downloaded 10 papers on IEEE Xplore** and had stayed there for 43 months. At Bristol, my research activities focussed on developing high

performance systems and architectures for very high throughput (multi-Gbps) wireless networks and were supported by Toshiba Research Europe, Great Western Research, ClearSpeed Technology and Engr. and Phys. Sciences Research Council (UK). At UCF, I contributed significantly to the modeling, simulation, design and implementation of systems and architectures for computer networks. At Duke, I showed through experimental data that the mine detection and false alarm filtering system I developed can achieve a 95% mine detection rate while reducing false alarms more than 90%. At Mitsubishi Semiconductor, I worked on mixed-signal data converter circuits primarily for communications. Particularly, I was one of the lead designers for a 14-bit, 2.2 MS/s sigma-delta analog-to-digital converter chip, which received an internal award for first silicon success.

Main contributions of my research work:

- A real time packet filtering algorithm developed on graphics processing unit to protect systems from DDoS attacks (processes 11 million packets per second),
- Two major computation algorithms for LDPC decoding designed and implemented on three different GPU architectures; namely, Fermi, Kepler and Maxwell (best performance 1.2 Gbps),
- An algorithm developed using graphics processor technology to process a 512-point FFT in less than 200 ns (equivalent to a raw throughput of 6.8 Gbps),
- FFT computation for communication system revised according to Maxwell architecture to achieve real time computation power (60 Gbps in throughput),
- Low-complexity high-throughput decoding architecture for convolutional codes (100% improvement in throughput),
- A network processor design for a novel learning-based routing protocol (sustains 10 Gbps like TCP/IP counterparts),
- Very high-throughput off-chip communications architectures for network line cards (doubles the throughput compared to the deployed systems to 450 Gbps),
- Low-power architectures for network forwarding tables (reduces power consumption by 25%)
- Very low-power architectures for Bloom filter-based network intrusion detection systems (reduces power consumption by 85%),
- Offload-engine design for IGMP multicast snooping (processes 4 million packets per second),
- Front-end device design for content networking (searches 1.5 million inquires per second),
- An efficient spam filtering technique based on local cache architectures (reduces the inquiries to the 3rd party DNS blacklist servers by 70%),
- Development of a novel scrambling algorithm that reduces the vulnerability of the wired equivalent privacy (WEP) security protocol used in the IEEE 802.11b wireless network standard,
- Introduction of a cluster leader election algorithm for mobile ad hoc networks,
- Development of performance analysis methods for self-similar video traffic over ATM networks,
- Introduction of a distributed protocol for resource allocation and scheduling in the computational grid,
- Location-aided multi-user beamforming for 60 GHz WPAN systems.

5.2 Publications

Google Scholar Citations: 3100+; h-index: 19; i10-index: 31

Type	Number of Publications
Journal Papers	44
Edited Books and Proceedings	3
Book Chapters	4
Conference Papers	73
Total	124

Journal Papers

1. S. Keskin and T. Kocak "GPU-based Gigabit LDPC Decoder", *IEEE Communications Letters*, vol. 21, no:8, pp. 1703-1706, Aug. 2017.
2. O. Ates, S. Keskin, T. Kocak, "High throughput graphics processing unit based Fano decoder", *Elsevier Journal of Network and Computer Applications*, vol. 75, pp. 128-137, Nov. 2016.
3. O. Cetin, S. Keskin, T. Kocak, "Real-time FFT Computation using GPGPU for OFDM-based Systems", *Springer Circuits, Systems, and Signal Processing*, vol. 35, no. 3, pp. 1021-1044, Mar. 2016
4. S. Kaya, T. Kocak, C. Gungor, "A Battery-Friendly Data Acquisition Model for Vehicular Speed Estimation", *Elsevier Computers and Electrical Engineering*, vol. 50, pp. 79-90, Feb. 2016.
5. M. Yigit, M. Macit, V.C. Gungor, T. Kocak, O. Ozhan, "Operator User Management System Based On the TMF615 Standard", *Journal of Network and Systems Management(JONS)*, vol. 24, no. 1, pp. 161-188, January 2016.
6. D. Sahin, V.C. Gungor, T. Kocak, G. Tuna, "Quality-of-service differentiation in single-path and multi-path routing for wireless sensor network-based smart grid applications", *Ad Hoc Networks*, vol. 22, pp. 43-60, Nov. 2014.
7. S. Temel, V.C. Gungor, T. Kocak, "A Routing Protocol Design Guidelines for Smart Grid Environments", *Computer Networks*, vol. 60, pp. 160-170, Feb. 2014.
8. V.C. Gungor, D. Sahin, T. Kocak, S. Ergut, C. Buccella, C. Cecati, G. P. Hancke, "A Survey on Smart Grid Potential Applications and Communication Requirements", *IEEE Trans. on Industrial Informatics*, vol. 9, no. 1, pp. 28-42, Feb. 2013.
9. V.C. Gungor, D. Sahin, T. Kocak, S. Ergut, C. Buccella, C. Cecati, G. P. Hancke, "Smart Grid and Smart Houses: Key Players and Pilot Projects", *IEEE Industrial Electronics Magazine*, vol.6, no. 4, pp. 18-34, Dec. 2012.
10. R. Xu, K. Morris, G. Woodward and T. Kocak, "Low-Complexity High-Throughput Decoding Architecture for Convolutional Codes", *EURASIP Journal on Wireless Communications and Networking*, Article 151, pp. 1-14, April 2012.
11. R. Xu, T. Kocak, K. Morris, G. Woodward, C. Dolwin, "High throughput parallel Fano decoding", *IEEE Trans. on Communications*, vol. 59, no. 9, pp. 2394-2405, September 2011.
12. V.C. Gungor, D. Sahin, T. Kocak, S. Ergut, C. Buccella, C. Cecati, G. P. Hancke, "Smart Grid Technologies: Communications Technologies and Standards", *IEEE Trans. on Industrial Informatics*, vol.7, no. 4, pp. 529-639, Nov. 2011.

13. M. Georgiopoulos, C. Li and T. Kocak "Learning in the feed-forward Random Neural Network: A Critical Review", *Performance Evaluation*, vol. 68, no. 4, pp.361-384, April 2011.
14. C. Argyrides, D. Pradhan and T. Kocak, "Matrix codes for reliable and cost-efficient memory chips", *IEEE Trans. on VLSI Systems*, vol. 19, no.3, pp. 420-428, March 2011.
15. N. Hinitt and T. Kocak, "GPU-based FFT computation for multi-gigabit WirelessHD base-band processing", *EURASIP Journal on Wireless Communications and Networking*, Article ID 359081, 1-13, 2010.
16. T. Kocak and D. Pradhan, "Design Techniques for Energy Harvesting", *ACM Journal on Emerging Technologies in Computing Systems*, vol. 4 article 2, pp. 1-2, 2010.
17. T. Kocak, "Two decades of random neural networks", *Computer Journal*, vol. 53, no. 3, pp. 249-250, 2010.
18. A. AbuTaleb, J. Mathew, D.K. Pradhan and T. Kocak, "A Novel Fault Diagnosis Technique in Wireless Sensor Networks", *International Journal on Advances in Networks and Services*, vol. 4, pp. 230-240, 2009.
19. J. Engel and T. Kocak, "Off-chip communications architectures for high-throughput network processors", *Computer Communications*, vol. 32, no. 5, pp. 867-879, March 2009.
20. D. J. Lacks, T. Kocak, and M. Chatterjee, "Design and evaluation of a distributed cluster leader logic algorithm for mobile ad hoc networks", *Computer Journal*, vol. 52, no. 6, pp. 656-670, 2009.
21. D. J. Lacks and T. Kocak, "Developing reusable simulation core code for networking: the grid resource discovery example", *Journal of Systems and Software*, vol. 82, no.1, pp. 89-100, Jan. 2009.
22. M. Paynter and T. Kocak, "Design and implementation of low-power bloom filter for deep packet inspection", *Journal of Low Power Electronics*, vol. 4, no. 3, pp. 1-11, Dec. 2008.
23. M. Paynter and T. Kocak, "Fully pipelined bloom filter architecture", *IEEE Communications Letters*, vol. 12, no. 11, pp. 1-3, Nov. 2008.
24. J. Buboltz, J. Engel, and T. Kocak, "Performance evaluation of multi-core architectures in training and simulation: A case study with AMD and Intel dual-core systems", *Journal of Defense Modeling and Simulation*, vol. 5, no, 4, pp. 196-217, October 2008.
25. T. Kocak and M. Jagetia, "A WEP post-processing algorithm for a robust 802.11 WLAN implementation", *Computer Communications*, vol. 31, no. 14, pp. 3405-3409, Sept. 2008.
26. T. Kocak, J. Buboltz, J. Engel, "Characterization of server performance bottlenecks in distributed interactive simulation environments", (*Elsevier*) *Simulation Modelling Practice and Theory*, vol. 16, no. 7, pp. 746-753, August 2008.
27. K. Schneider and T. Kocak, "Design and implementation of an offload engine for IGMP multicast snooping", *IET Communications*, (formerly, IEE Proc. on Communications), vol. 2, no. 2, pp. 484-492, April 2008.
28. T. Kocak, H. Terzioglu, and F. Basci, "Design and evaluation of an ad hoc network in hardware", *J. Ubiquitous Computing and Intelligence*, vol. 1, no. 1, pp. 93-100, April 2007.
29. J. Engel and T. Kocak, "High performance architectures for chip-to-chip communications on network line cards", *Journal of High Speed Networks*, vol. 16, no. 2, pp. 193-208, March 2007.
30. T. Kocak, G. R. Harris, R. DeMara, "Self-timed architecture for masked successive approximation analog-to-digital conversion", *Journal of Circuits, Systems and Computers*, vol. 16, no. 1, pp. 1-14, Feb. 2007.
31. J. Engel, D. Lacks, T. Kocak, "Modeling and simulation of off-chip communication architectures for high-speed packet processors", *Journal of Systems and Software*, vol 79, no. 12, pp. 1701-1714, Dec. 2006.

32. T. Kocak and F. Basci, "A power-efficient TCAM architecture for network forwarding tables", *Journal of Systems Architecture*, vol. 52, no. 5, pp. 307-314, May 2006.
33. T. Kocak, "Approximate analysis of a dynamic scheduler for self-similar video traffic in ATM networks", *IEE Proc. on Communications*, vol. 153, no. 2, pp. 189-194, April 2006.
34. T. Kocak, "A hybrid network processor with support for high-speed execution of CPN and upper layer IP protocols", *Computer Journal*, vol. 49, no. 2, pp. 190-200, March 2006.
35. T. Kocak and I. Kaya, "Low-power Bloom filter architecture for deep packet inspection", *IEEE Communications Letters*, vol. 10, no. 3, pp. 210-212, March 2006.
36. T. Kocak and J. Engel, "A high throughput 3D-bus interconnect for network processors", *Microprocessors and Microsystems*, vol. 30, no. 1, pp. 15-25, Feb. 2006.
37. T. Kocak and M. Draper, "A back-propagation neural network landmine detector using the Delta-technique and S-statistic", *Neural Processing Letters*, vol. 23, no. 1, pp. 47-54, Feb. 2006.
38. H. Abdelbaki, E. Gelenbe, and T. Kocak, "Neural algorithms and energy measures for EMI based mine detection", *Differential Equations and Dynamical Systems*, vol. 13, no. 1, pp. 63-86, 2005.
39. E. Gelenbe, T. Kocak and R. Wang, "Wafer surface reconstruction from scanning electron microscopy images", *MicroElectronic Engineering*, vol.75, no.2, pp. 216-233, 2004.
40. T. Kocak, J. Seeber, and H. Terzioglu, "Design and implementation of a random neural network routing engine", *IEEE Tran. on Neural Networks*, vol. 14, no. 5, pp. 1128-1143, September, 2003.
41. J. Morizio, M. Hoke, T. Kocak, C. Geddie, "14-bit, 2.2 MS/s sigma-delta ADCs", *IEEE Journal of Solid-State Circuits*, vol. 35, no. 7, pp. 968-976, 2000.
42. E. Gelenbe and T. Kocak, "Area-based results for mine detection", *IEEE Tran. on Geoscience and Remote Sensing*, vol. 38, no. 1, pp 12-24, 2000.
43. H. Bakircioglu and T. Kocak, "Survey of random neural networks applications", *European Journal of Operational Research*, vol. 126, no. 2, pp. 319-330, 2000.
44. H. Bakircioglu, E. Gelenbe and T. Kocak, "Image enhancement and fusion with the random neural network", *ELEKTRIK*, vol. 5, no. 1, pp. 65-77, 1997.

Edited Books and Proceedings

45. T. Kocak, G. Memik and T. Wolf (eds.), *Proceedings of the Advanced Networking and Communications Hardware Workshop*, held in conjunction with the IEEE/ACM Int'l Symp. on Computer Architecture (ISCA), Boston, MA, June 2006 (49 pages).
46. T. Kocak and G. Memik (eds.), *Proceedings of the Advanced Networking and Communications Hardware Workshop*, held in conjunction with the IEEE/ACM Int'l Symp. on Computer Architecture (ISCA), Madison, Wisconsin, June 2005 (65 pages).
47. T. Kocak and G. Memik (eds.), *Proceedings of the Advanced Networking and Communications Hardware Workshop*, held in conjunction with the IEEE/ACM Int'l Symp. on Computer Architecture (ISCA), Munich, Germany, June 2004 (73 pages).

Book Chapters

48. T. Kocak, "Hardware Implementation of Random Neural Networks with Reinforcement Learning", *Lecture Notes in Computer Science*, vol. 4131, pp. 321-329, Springer-Verlag, Berlin, Germany, 2006.

49. L. Boloni, D. Turgut, T. Kocak, Y Ji, and D. C. Marinescu, "Rapid Distribution of Tasks on a Commodity Grid", *Lecture Notes in Computer Science*, vol. 3470, pp. 721-730, Springer-Verlag, Berlin, Germany, 2005.
50. F. Basci, H. Terzioglu, and T. Kocak, "Design and Evaluation of a Source Routed Ad Hoc Network", *Lecture Notes in Computer Science*, vol. 2869, pp. 115-122, Springer-Verlag, Berlin, Germany, 2003.
51. E. Gelenbe, T. Kocak, and L. Collins, "Sensor Fusion for Mine Detection with the RNN", *Lecture Notes in Computer Science*, vol. 1327, pp. 937-942, Springer-Verlag, Berlin, Germany, 1997.

Conference Papers

52. S. Keskin and T. Kocak, "GPU Accelerated Gigabit Level BCH and LDPC Concatenated Coding System", *Proc. of the 2017 IEEE High Performance Extreme Computing Conference*, Boston, MA, USA, Sept. 2017.
53. S. Keskin and T. Kocak, "Teraflop FFT computation for OFDM using GPGPU", *Proc. of the 2017 IEEE High Performance Extreme Computing Conference*, Boston, MA, USA, Sept. 2017.
54. S. Keskin, E. Erdil and T. Kocak, "An efficient parallel implementation of 3D-FFT on GPU", *Proc. of the 2017 IEEE High Performance Extreme Computing Conference*, Boston, MA, USA, Sept. 2017.
55. O. Armagan, S. Keskin and T. Kocak, "Open Distributed System to Provide Real-Time Communication Service over Web", *Proc. of the 25th IEEE Signal Processing and Communications Applications Conference*, Antalya, Turkey, May 2017.
56. S. Keskin, T. Erdogan and T. Kocak, "GPU based connection tracking method for DDoS prevention systems", *Proc. of the IEEE 4th International Symposium on Digital Forensics and Security*, Little Rock, AR, USA, April 2016.
57. S. Kaya, B.G. Ozergin, H. Ozsoy, T. Kocak, V.C.Gungor, "TTraffic: A Fully Integrated Accident Management System in Vehicular Networks Through Smartphones", *Proc. of the 2014 International Conference on Wireless Networks*, Las Vegas, NV, USA, July 2014.
58. O. Ates, S. Keskin, T. Kocak, "Multi-Gbps Fano Decoding Algorithm on GPGPU", *Proc. of the 2014 International Conference on Parallel and Distributed Processing Techniques and Applications*, Las Vegas, NV, USA, July 2014.
59. S. Kaya, N. Kilic, T. Kocak and C. Gungor, "From Asia to Europe: Short-Term Traffic Flow Prediction Between Continents", *Proc. of the 21st International Conference on Telecommunications*, Lisbon, Portugal, May 2014.
60. A. Kakacak and T. Kocak, "Design and implementation of high throughput bidirectional Fano decoding", *Proc. of the IEEE Industrial Electronics and Applications*, Melbourne, Australia, June 2013.
61. C. Han, X. Zhu, A. Doufexi and T. Kocak, "Location-aided Multi-user Beamforming for 60 GHz WPAN Systems", *Proc. of the IEEE Vehicular Technology Conference*, Yokohama, Japan, May 2012.
62. T. Kocak and P. Patil, "Design and Implementation of High-Performance High-Valency Ling Adders", *Proc. of the 15th IEEE Symposium on Design and Diagnostics of Electronic Circuits and Systems*, Tallinn, Estonia, April 2012.
63. D. Sahin, S. Bulbul, C. Gungor and T. Kocak, "Yeni Nesil Iletisim Sistemlerinde One Cikan Teknolojiler", *Proc. of the 20th IEEE Sinyal Islemeleri ve Iletisim Uygulamalari Konferansi*, Mugla, Turkey, April 2012.

64. X. Zhu, A. Doufexi and T. Kocak, "A Performance Enhancement for 60 GHz Wireless Indoor Applications", *Proc. of the IEEE Int'l. Conf. on Consumer Electronics*, Las Vegas, NV, USA, Jan. 2012.
65. X. Zhu, A. Doufexi and T. Kocak, "A Performance Evaluation of 60 GHz MIMO Systems for IEEE 802.11ad WPANs", *Proc. of the IEEE Symp. on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Toronto, Canada, September 2011.
66. K. Mimis and T. Kocak, "Area efficient System-on-Programmable-Chip Design for a Wireless Touch-Triggered Machining Probe", *Proc. of the IEEE Industrial Electronics and Applications*, Beijing, China, June 2011.
67. X. Zhu, A. Doufexi and T. Kocak, "Throughput and Coverage Improvement for IEEE 802.11ad Millimeter-Wave WPANs", *Proc. of the IEEE 73rd Vehicular Technology Conference*, Budapest, Hungary, May 2011.
68. X. Zhu, A. Doufexi and T. Kocak, "Beamforming Performance Analysis for OFDM Based IEEE 802.11ad Millimeter-Wave WPANs", *Proc. of the 8th IEEE International Workshop on Multi-Carrier Systems & Solutions*, Herrsching, Germany, May 2011.
69. R. Xu, G. Woodward, K. Morris, T. Kocak, "A Discrete Time Markov Chain Model for High Throughput Bidirectional Fano Decoders", *Proc. of the IEEE GlobeCom*, Miami, FL, 2010.
70. M. Ismail, I. Ahmed, J. Coon, S. Armour, T. Kocak and J. McGeehan, "Low Latency Low Power Bit Flipping Algorithms For LDPC Decoding", *IEEE Symp. on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Istanbul, Turkey, 2010.
71. M. Georgiopoulos, C. Li, T. Kocak, "Learning in the feed-forward Random Neural Network: A Critical Review", *Proc. of the 25th International Symp. on Computer and Information Sciences*, London, UK, 2010.
72. S. Zhu, A. Doufexi and T. Kocak, "On the Performance of IEEE 802.15.3c Millimeter-Wave WPANs: PHY and MAC", *Proc. of the Wireless Advanced 2010*, London, June 2010.
73. T. Kocak and N. Hinitt, "Exploiting the Power of GPUs for Multi-Gigabit Wireless Baseband Processing", *Proc. of the 9th International Symposium on Parallel and Distributed Computing*, Istanbul, Turkey, July 2010.
74. R. Xu, T. Kocak, G. Woodward, K. Morris, "Throughput Improvement on Bidirectional Fano Algorithm", *Proc. of the 6th International Wireless Communications and Mobile Computing Conference*, Caen, France, June 2010.
75. D. Lacks and T. Kocak, "Grid Resource Discovery over Distributed Routers", *Proc. of the International Conference on Information Science and Applications*, Seoul, South Korea, April 2010.
76. R. Xu, T. Kocak, G. Woodward, K. Morris, C. Dolwin, "Bidirectional Fano Algorithm for High Throughput Sequential Decoding", *IEEE Symp. on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Tokyo, Japan, 2009.
77. M. Ismail, J. Coon, I. Ahmed, S. Armour, T. Kocak, "High Throughput Layered Decoding of LDPC Codes", *IEEE Symp. on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Tokyo, Japan, 2009.
78. Y. Zhang and T. Kocak, "Energy-Efficient, High-Performance Viterbi ACS Unit Implementation in 90nm CMOS", *European Conf. on Circuit Theory and Design*, Antalya, Turkey, 2009.
79. A. AbuTaleb, D. Pradhan, T. Kocak, "A technique to identify and substitute faulty nodes in wireless sensor networks", *Proc. of the International Conference on Sensor Technologies and Applications (SENSORCOMM)*, Athens, Greece, 2009 (**Best Paper Award**).
80. J. Buboltz and T. Kocak, "Front end device for content networking", *Proc. of the IEEE/ACM Design Automation and Test in Europe (DATE)*, Munich, Germany, March 2008 (**Acceptance Rate: <25%**, over 800 submissions).

81. A. Khanal, B. Motlagh and T. Kocak, "Improving the efficiency of spam filtering through cache architectures", *Proc. of the 15th IEEE Int'l Symp. on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*, Istanbul, Turkey, Oct. 2007.
82. J. Buboltz, J. Engel, T. Kocak and M. Jemtrud, "CPU architectures and network protocol offload in a simulation environment", *Proc. of the Interservice / Industry Training, Simulation and Education Conf. (I/ITSEC)*, Orlando, FL, Dec. 2006 (Runner-up for the best paper in R&D category).
83. I. Kaya and T. Kocak, "Energy-efficient pipelined bloom filters for network intrusion detection", *Proc. of the IEEE Int'l Conf. on Communications (ICC)*, Istanbul, Turkey, June 2006.
84. D. Lacks and T. Kocak, "A distributed grid resource discovery and management protocol and its deployment environments", *Proc. of the Int'l Conf. on Grid Computing and Applications*, Las Vegas, NV, June 2006.
85. I. Kaya and T. Kocak, "Increasing the power efficiency of Bloom filters for network string matching", *Proc. of the IEEE Int'l Symp. on Circuits and Systems (ISCAS)*, Kos Island, Greece, May 2006.
86. T. Kocak and J. Engel, "Performance evaluation of wormhole routed network processor-memory interconnects", *Proc. of the 20th IEEE Parallel and Distributed Processing Symp. (IPDPS)*, Rhodes Island, Greece, May 2006.
87. I. Kaya and T. Kocak, "A low power lookup technique for multi-hashing network applications", *Proc. of the IEEE Computer Society Annual Symp. on VLSI (ISVLSI)*, Karlsruhe, Germany, March 2006.
88. J. Engel, J. Meneskie, T. Kocak, "Performance analysis of network protocol offload in a simulation environment", *Proc. of the ACM Southeast Conf.*, Melbourne, FL, March 2006.
89. J. Engel, D. Lacks, and T. Kocak, "Simulation framework for multi-processor memory communications", *Proc. of the European Simulation and Modeling Conf.*, Porto, Portugal, Oct., 2005.
90. J. Engel and T. Kocak, "Performance evaluation of 3D-interconnect architectures for network line cards", *Proc. of the IASTED Int'l Conf. on Communications and Computer Networks*, Marina Del Rey, CA, Oct., 2005.
91. J. Engel, D. Lacks, and T. Kocak, "Modeling and simulation of off-chip communication architectures for high-speed packet processors", *Proc. of the IASTED Int'l Conf. on Circuits, Signals, and Systems*, Marina Del Rey, CA, Oct., 2005.
92. T. Kocak and M. Draper, "Statistical and neural techniques for processing of nonparametric geophysical mine data", *Proc of the 13th European Signal Processing Conf.*, Antalya, Turkey, Sept. 2005.
93. J. Engel and T. Kocak, "K-ary n-cube based off-chip communications architecture for high-speed packet processors", *Proc. of the 48th IEEE Int'l Midwest Symp. on Circuits and Systems*, Cincinnati, OH, August 2005.
94. T. Kocak, "Approximate analysis of coupled queuing for self-similar video traffic in ATM networks", *Proc. of the Int'l Conf. on Communications in Computing*, Las Vegas, NV, June 2005.
95. J. Engel and T. Kocak, "3D-mesh interconnect architecture for network processors", *Proc. of the Int'l Conf. on Parallel and Distributed Processing Techniques and Applications (PDPTA)*, Las Vegas, NV, June 2005.
96. M. Draper and T. Kocak, "Performance of EMI based mine detection using back-propagation neural networks", *Proc. of the 13th European Symp. on Artificial Neural Networks*, Bruges, Belgium, April 2005.

97. T. Kocak, "An architecture for high-speed execution of upper layer (4-7) network protocols", *Proc. of the 43rd ACM Southeast Conf.*, Atlanta, GA, March 2005.
98. T. Kocak and H. Terzioglu, "A packet processor for a learning based routing protocol", *Proc. of the 43rd ACM Southeast Conf.*, Atlanta, GA, March 2005.
99. T. Kocak and L. Boloni, "Highly distributed resource discovery and allocation in the grid", *Proc. of the 47th IEEE Midwest Symp. on Circuits and Systems*, Hiroshima, Japan, July 2004.
100. J. Engel and T. Kocak, "A 3D-bus interconnection architecture for network line cards", *Proc. of the IEEE Northeast Workshop on Circuits and Systems*, Montreal, Canada, June 2004.
101. H. Terzioglu and T. Kocak, "A cognitive packet network processor", *Proc. of the IEEE Northeast Workshop on Circuits and Systems*, Montreal, Canada, June 2004.
102. F. Basci and T. Kocak, "Statistically partitioned, low-power TCAM", *Proc. of the IEEE Northeast Workshop on Circuits and Systems*, Montreal, Canada, June 2004 .
103. M. Jagetia and T. Kocak, "A novel scrambling algorithm for a robust WEP implementation", *Proc. of the 59th IEEE Semiannual Vehicular Technology Conference*, Milan, Italy, May 2004.
104. F. Basci and T. Kocak, "A low-power network search engine based on statistical partitioning", *Proc. of IEEE Workshop on High-Performance Switching and Routing*, Phoenix, AZ, April 2004.
105. J. Engel and T. Kocak, "An architecture for chip-to-chip communications on network line cards", *Proc. of the 46th IEEE Midwest Symp. on Circuits and Systems*, Cairo, Egypt, Dec. 2003.
106. T. Kocak and G. R. Harris, "A novel self-timed successive approximation ADC architecture", *Proc. of the IEEE Northeast Workshop on Circuits and Systems*, Montreal, Canada, June 2003.
107. T. Kocak and J. Seeber, "Hardware implementation of RNN for networking applications", *Proc. of the ICANN/ICONIP'03 Int'l Conf. on Artificial Neural Networks*, Istanbul, Turkey, July 2003.
108. G. R. Harris and T. Kocak, "A novel asynchronous ADC architecture", *IEEE Proc. of the 11th Annual NASA Symposium on VLSI Design*, Coeur d'Alene, ID, May 2003.
109. T. Kocak, J. Seeber and H. Terzioglu, "Routing engine design for the cognitive packet networks", *Proc. of the Workshop on Network Processors at the IEEE High-Performance Computer Architecture Symposium (HPCA 9)*, Anaheim, CA, Feb. 2003.
110. T. Kocak and J. Seeber, "Design and implementation of smart packet processor for the cognitive packet network router", *Proc. of the Int'l Symp. on Computers and Information Sciences*, Orlando, FL, Oct. 2002.
111. T. Kocak and J. Seeber, "Smart packet processor design for the cognitive packet network router", *Proc. of the 45th IEEE Midwest Symp. on Circuits and Systems*, Tulsa, OK, Aug. 2002.
112. T. Kocak, E. Gelenbe and H. Abdelbaki, "EMI based mine detection using random neural networks", *Proc. of ISCIS, Int'l Symp. on Computers and Information Sciences*, Antalya, Turkey, Oct. 2001.
113. T. Kocak and E. Gelenbe, "Wafer surface reconstruction from scanning electron microscopy images using RNN", *Proc. of the Int'l Symp. on Computers and Information Sciences*, Antalya, Turkey, Oct. 2001.
114. J. Morizio, M. Hoke, T. Kocak, C. Geddie, et al., "SNDR sensitivity analysis for cascaded sigma-delta modulators", *Proc. of IEEE Int'l Symp. on Circuits and Systems (ISCAS)*, vol. 3, pp. 752-765, Geneva, Switzerland, May 2000.
115. J. Morizio, M. Hoke, T. Kocak, C. Geddie, et al., "14-bit, 2.2 MS/s sigma-delta ADCs", *Proc. of the 25th European Solid-State Circuits Conf.*, Duisburg, Germany, Sept. 1999.
116. H. Abdelbaki, E. Gelenbe and T. Kocak, "Matched neural filters for EMI-based mine detection", *Proc. of IEEE Int'l Joint Conf. on Neural Networks (IJCNN)*, Washington, DC, July 1999.

117. P. Gader, K. Hocaoglu, E. Gelenbe and T. Kocak, "Optimal linear combination of order statistics filter and their relationship to the delta operator", *Proc. of the SPIE Conf. on Detection and Remediation Technologies for Mines and Minelike Targets*, vol. 3710, pp. 1323-1329, Orlando, FL, April 1999.
118. H. Abdelbaki, E. Gelenbe and T. Kocak, "Random neural network filter for land mine detection", *Proc. of the 16th IEEE National Radio Science Conf.*, Egypt, 1999.
119. E. Gelenbe and T. Kocak, "Area-based results for mine detection", *Proc. of the SPIE Conf. on Detection and Remediation Technologies for Mines and Minelike Targets*, vol. 3392, pp. 894-905, Orlando, FL, April 1998.
120. E. Gelenbe and T. Kocak, "The delta-technique for EMI-based mine detection", *Proc. of the 11th Int'l Conf. on High-Power Electromagnetics (EUROEM98)*, Tel Aviv, Israel, June 1998.
121. E. Gelenbe, H. Bakircioglu and T. Kocak, "Image processing with the random neural network", *Proc. of the SPIE Conf. on Electronic Imaging*, vol. 3307, pp. 38-49, Jan. 1998, .
122. H. Bakircioglu, E. Gelenbe, and T. Kocak, "Image enhancement and fusion with the random neural network", *Proc. of ISCIS*, Antalya, Turkey, Oct. 1997.
123. H. Bakircioglu, E. Gelenbe and T. Kocak, "Image Processing with RNN", *Proc. of the 13th Int'l DSP Conf.* (invited talk), Santorini, Greece, July 1997.
124. T. Kocak, K. Ciliz and O. Kaynak, "Real-time control using artificial neural networks", *Proc. of the Turkish National Automatic Control Symp.*, Istanbul, Turkey, April 1996.

5.3 Grant Activity

I have secured grants from American, British, Turkish and Japanese funding agencies over \$3.7 million as a PI or Co-PI.

- "Open distributed system for enterprise-level real-time communications over Web", PI, 21K TL (\$7K), Source: Netas and TUBITAK, October 2016.
- "Gateway Design for Rich Communication Services on HTTP Capable Clients", PI, 60K TL (\$21K), Source: Netas and TUBITAK, November 2015.
- "IP Multimedia Subsystem Power Analysis", PI, 775K TL (\$292K), Source: Alcatel-Lucent, Turkey, and TUBITAK, July 2015.
- "High-Performance filtering of DDoS attacks using GPGPU", PI, 495K TL (\$230K), Source: Labris and TUBITAK, August 2014.
- "Academic Advisor to ALU Research and Development Center", PI, 60K TL (\$29K), Source: Alcatel-Lucent, Turkey, June 2014.
- "Accident Detection System using ICT", PI, 66K TL (\$37K), Source: Turk Telekom, April 2012.
- "Baseband algorithm computation using GPU technology for 10-Gbit OFDM-based communication systems", PI, \$153K, Source: KDDI R&D Labs, Japan, September 2011.
- "Smart transportation", PI, 132K TL (\$87K), Source: Turk Telekom, December 2010.
- "Smart grid communications", Co-PI, 132K TL (\$87K), Source: Turk Telekom, December 2010.
- "Design and implementation of proxy for the TR-69 protocol", PI, 100K TL (\$64K), Source: Ministry of Trade and Industry - Alcatel-Lucent Teletas, June 2010.
- "Design and implementation of interface for the TMF-615 protocol", Co-PI, 100K TL (\$64K), Source: Ministry of Trade and Industry - Alcatel-Lucent Teletas, June 2010.
- "DSLAM Telecommunications Equipment", PI, Euro 50K (\$69K), Source: Alcatel-Lucent Turkey, March 2010.

- “High-performance and flexible multi-core processors for networking”, PI, £50K (\$100K), Source: Engr. and Phys. Sciences Research Council (EPSRC) and Bristol Univ., Nov. 2008 - Oct. 2011.
- “Multigigabit wireless on multicore processor”, PI, £55.2K (\$110.4K), Source: Great Western Research and ClearSpeed Technology (UK), Feb. 2008 - Jan. 2011.
- “Hardware architecture for future multi-carrier wireless communication systems”, PI, £90K (\$180K), Source: Toshiba Research Europe Ltd, Feb. 2008 - Jan. 2011.
- “Efficient methods for transmission and reception in high throughput wideband systems”, Co-PI, £47.5K (\$95K), Source: Toshiba Research Europe Ltd, Jan. 2008 - Dec. 2010.
- “Two high-end GeForce 9800 GX2 graphics boards”, PI, £750 (\$1.5K), Source: NVIDIA Corp. (USA), June 2008.
- “Short range, high throughput wireless baseband processing”, PI, £47.5K (\$95K), Source: EP-SRC and Bristol Univ., Oct. 2007 - Sept. 2010.
- “Project EXCEL: The planning, development and implementation of strategic effort designed to increase the nation’s STEM workforce”, Co-PI, \$2 million, Source: US National Science Foundation, Jan. 2006 - Dec. 2009.
- “Undergraduate Research Initiative”, PI, \$1K, Source: UCF Office of Research and Commercialization, May 2006.
- “Dual-core CPU architectures in a simulation environment”, PI, \$10K, Source: Northrop Grumman Corp. (USA), Jan. 2006 - May 2006.
- “Architectures for modeling and simulation”, PI, \$9K, Source: Florida High-Tech Corridor, Jan. 2006 - May 2006.
- “Two IBM 21” monitors”, PI, \$500, Source: All Points Logistics (USA), Dec. 2005.
- “Performance analysis of network protocol offload in a simulation environment”, PI, \$8K, Source: Northrop Grumman Corp. (USA), Aug. 2005 - Dec. 2005.
- “Two high-end Dell servers, a Cisco switch, several network offload cards”, Source: Northrop Grumman Corp. (USA), PI, \$10K, Aug. 2005.
- “Thesis support”, PI, \$250, Source: Burnett Honors College, Dec. 2004.
- “Major equipment grant for the research lab”, PI, \$20K, Source: UCF School of EECS, March 2002.
- “Renovation of the microelectronics research lab”, Co-PI, \$10K, Source: UCF College of Engr., Feb. 2002.
- “Presidential initiative to fund major equipment”, Co-PI, \$40K, Source: UCF Office of Research, Feb. 2002.

5.4 Invited Talks

- “Exploiting the Power of GPUs for Multi-Gigabit Wireless Baseband Processing”, KDDI R&D Labs, Japan, June 2011.
- “The education of computer engineers in the future”, (Keynote Speech along with Prof. Yildirim Uctug), Osmangazi University, Eskisehir, Turkey, Oct. 2009.
- “Low-power architectures and systems for networking applications”, Rochester Institute of Technology, Rochester, New York, USA, March 2007.
- “Random neural networks and its applications”, British Computer Society, London, UK, Oct. 2007.
- “Hardware design for networking and communications”, University of Bristol, UK, Jan. 2007,

- “Power-efficient techniques for network processing”, Imperial College London, UK, Oct. 2006.
- “Graduate programs at the school of electrical engineering and computer science at UCF”, Bogazici University, Istanbul, and also Middle East Technical University, Ankara, Turkey, December 2002.
- “Graduate programs at the school of electrical engineering and computer science at UCF”, University of Costa Rica, San Jose, and also Technological Institute of Costa Rica, Cartago, Costa Rica, November 2002.
- “Approaches for packet processor design”, Sabanci University, Istanbul, Turkey, May 2002.

6 Teaching and Student Supervision

6.1 Teaching Enhancements

New degree programs

- Developed an MS program in Construction Management (2015, Bahcesehir)
- Developed an MS program in Big Data Analysis (2014, Bahcesehir)
- Developed a PhD program in Computer Science and Engineering (2011, Bahcesehir)
- Developed an MS program in Telecommunication Management (2010, Bahcesehir)
- Developed a graduate program track for M.S. students (2002, UCF)
- Introduced three new sub-areas in Computer Engineering PhD program as the director of graduate studies (2002-2003, UCF).

New courses developed

1. *CMPE 6146 Advanced Topics in Computer Communication Systems* (2012, Bahcesehir)
2. *CMPE 6146 Advanced Topics in Computer Architecture* (2011, Bahcesehir)
3. *EEL 6786 Advanced Networking Hardware Design* (2003, UCF)
4. *EEL 5390 Full-custom VLSI Design* (2002, UCF)

6.2 Courses Taught (at UCF, Bristol and Bahcesehir)

- Computer System Design I
- Computer System Design II
- Intro. to Computer Architecture
- Advanced Computer Architecture
- Computer Organization
- Intro. to Digital Logic Design
- Full-Custom VLSI Design
- Computer-Aided Design Group Project
- Pascal Programming Language
- Product Realization
- Circuit Analysis
- Advanced Networking Hardware Design
- Neural Networks

6.3 Teaching Support Activities:

- Established BAU-Virginia Tech Energy Management Lab (2016, Bahcesehir)
- Developed BAU-Stanford Robotics Lab (2015, Bahcesehir)
- Developed teaching labs for Civil Engineering program (2015, Bahcesehir)
- Established Intel IoT/Wearable Computing Lab (2015, Bahcesehir)
- Established Samsung Mobile Apps Development Lab (2012, Bahcesehir)
- Established VLSI Laboratory (2002, UCF)
- Served as a course custodian during the ABET visit 2002

6.4 Funding Related To Teaching:

- Obtained industrial funding from Intel Corp. to establish IoT/Wearable Computing Lab (2015, Bahcesehir)
- Obtained industrial funding from Samsung to establish mobile applications development lab (2012, Bahcesehir)
- Obtained funding from National Science Foundation to increase the students majoring in science, math and engineering disciplines as a Co-PI.(2006, UCF)
- Obtained funding from UCF research major equipment special to establish VLSI lab (2002, UCF)

NSF Excel Program

I was the Co-PI of a National Science Foundation funded Excel program which had a mission to increase retention rates in STEM (Science, Technology, Engineering, Mathematics) disciplines, thereby increasing the number of students graduating with a STEM degree. I developed two modules for this program. The first module is for “Applications of Calculus I” course and it discusses derivatives of trigonometric functions and in particular those that arise in mathematical and physical modeling of image formation in scanning electron miscropes. The second module is for “Applications of Calculus II” course and it discusses sigmoid functions, which belong to the family of hyperbolic functions and their usage in artificial neural networks.

6.5 CO-OP Program

The co-op program gives an excellent opportunity for the faculty and students to interact with industry. At BAU, we have more than 500 industrial co-op partners associated with the college of engineering. The co-op program is also very helpful in terms of student recruitment. I created a comprehensive co-operative education program with Netas (now part of ZTE), a large telecom systems vendor. Every semester, 20 students from several departments in the College spend 4-days a week in the company. I developed more than 25 elective courses taught by our co-op industry partners (e.g., IBM Big Data Analytics).

6.6 Student Supervision

Current

Name	Degree	Area	Year joined	Year expected	Institution
Cem Ayyildiz	Ph.D.	Mobile Communications/IoT	2013	2018	Bahcesehir
Erkan Cetiner	Ph.D.	Machine Learning	2014	2019	Bahcesehir
Safak Bulbul	Ph.D.	Cyber Physical Systems	2014	2019	Bahcesehir
Cagkan Ciloglu	M.S.	Machine Learning/Vision	2017	2018	Bahcesehir
Ediz Ozturk	M.S.	Healthcare Informatics	2017	2018	Bahcesehir

Graduated

Name	Degree	Area	Year joined	Year completed	Institution
Selcuk Keskin	Ph.D.	Comp. Architecture/Communications	2011	2017	Bahcesehir
Xiaoyi Zhu	Ph.D.	Communications	2008	2012	Bristol
Ran Xu	Ph.D.	Computer Communications	2008	2011	Bristol
Daniel Lacks	Ph.D.	Computer Networks	2005	2007	UCF
Jacob Engel	Ph.D.	Comp. Architecture/Networks	2001	2005	UCF
Ozgur Ates	M.S.	Comp. Architecture/ Communications	2010	2014	Bahcesehir
Ahmet Kakacak	M.S.	VLSI/Communications	2010	2013	Bahcesehir
Necati Kilic	M.S.	Mobile Communications	2010	2012	Bahcesehir
Dilan Sahin	M.S.	Computer Networks	2010	2012	Bahcesehir
Melike Yigit	M.S.	Computer Networks	2010	2011	Bahcesehir
Muhammet Macit	M.S.	Computer Networks	2010	2012	Bahcesehir
Preeti Patil	M.S.	Computer Architecture	2008	2009	Bristol
Hari Raajaraajan	M.S.	Computer Architecture	2008	2009	Bristol
Costas Mimis	M.S.	VLSI	2007	2008	Bristol
Jeremy Buboltz	M.S.	Computer Networks/VLSI	2006	2007	UCF
Jude Seeber	M.S.	Computer Networks/Architecture	2001	2002	UCF
Mohit Jagetia	M.S.	VLSI/Communications	2003	2004	UCF
Hakan Terzioglu	M.S.	Computer Architecture/Networks	2002	2004	UCF
Faysal Basci	M.S.	Computer Networks	2002	2004	UCF
Nicholas Hinitt	M.Eng.	Communications/Architecture	2008	2009	Bristol
Michael Paynter	M.Eng.	Computer Networks/VLSI	2007	2008	Bristol
Ying Zhang	B.Eng.	VLSI/Communications	2008	2009	Bristol
Matt Draper	B.S.	Machine Learning	2003	2004	UCF

7 Service

7.1 Professional Service Activities

- **Associate Editor**, *The Computer Journal* (2008 - 2010) published by Oxford University Press
- **Guest Editor**, *ACM Journal on Emerging Technologies in Computing Systems* (published in 2010)
- **Guest Editor**, *The Computer Journal* (published in 2010)
- **Reviewer**, *TUBITAK (Turkish NSF)*, (over 80 times - 2009 - continues)
- **Reviewer**, *Ministry of Industry and Trade - R&D Center Compliance*, (2010 - continues)
- **Engr. and Phys. Sciences Research Council (UK) Peer Reviewer**, (2008 - 2009)
- **Reviewer**, *Times Higher Education - Ranking of World Universities*, (2008 - continues)
- **Industrial Liaison**, Advanced Microelectronic Systems Engineering Program (2007 - 2008)
- **Founder and Co-organizer**, Workshop on "Advanced Networking and Communications Hardware" at *Int'l Symposium on Computer Architecture (ISCA)*, Munich, Germany, 2004.
- **Co-organizer**, Workshop on "Advanced Networking and Communications Hardware" at *Int'l Symposium on Computer Architecture (ISCA)*, Madison, WI, 2005.
- **Co-organizer**, Workshop on "Advanced Networking and Communications Hardware" at *Int'l Symposium on Computer Architecture (ISCA)*, Boston, MA, 2006.
- **Organizer**, Special session on "Advanced Networking Hardware Design" at *IEEE Int'l Midwest Symposium on Circuits and Systems*, Hiroshima, Japan, 2004.
- **Organizer**, Special session on "Advanced Networking Hardware Design" at *IEEE Int'l Midwest Symposium on Circuits and Systems*, Cairo, Egypt, 2003.
- **Co-Organizer**, Special session on "Advanced Networking Hardware" at *Int'l Symp. on Computer and Information Sciences*, Orlando, FL, 2002.
- **Co-Organizer**, Workshop on "Random Neural Networks", at *Int'l Conf. on Artificial Neural Networks*, Madrid, Spain, 2002.
- **Session Chair**, Network Routing, Traffic Flow and Security, *IEEE Int'l Conf. on Communications*, Istanbul, Turkey, 2006.
- **Session Chair**, Neural Network Hardware, *Int'l Conf. on Artificial Neural Networks*, Istanbul, Turkey, 2003.
- **Program Committee Member**, *Int'l Symp. on Computer and Information Sciences*, 2002, 2003.
- **Program Committee Member**, *The 9th Int'l Conf. on Distributed Computing and Networking*, Kolkata, India, 2008
- **Program Committee Member**, *IAPR S+SSPR Conf. on Pattern Recognition*, Orlando, FL, 2008.
- **Program Committee Member**, *23rd IEEE Int'l Conf. on VLSI Design*, Bangalore, India, 2010.
- **Program Committee Member**, *IEEE Int'l Joint Conf. on Neural Networks (IJCNN)*, San Jose, CA, USA, 2011.
- **Reviewer - Journals**
 - IEEE/ACM Trans. on Networking, IEEE Trans. on Neural Networks, IEEE Trans. on VLSI Systems, IEEE Trans. on Systems, Man and Cybernetics - Parts B and C, IEEE Design and Test of Computers, IEEE Micro, IEEE Communications Letters, IEE Proc. on Communications, Journal of Parallel and Distributed Computing, Journal of Low-Power Electronics, Journal of Supercomputing, Computer Networks, Neurocomputing, Int. J. Parallel, Emergent and Distributed Systems, Information Fusion.
- **Reviewer - Books**
 - The Handbook of Information Security (Wiley),
 - Programming with Delphi (Addison-Wesley).

7.2 University Services

College

- Dean of the College of Engineering and Natural Sciences (2014 - 2017)
- Faculty Management Board Member (2010 - 2012) (2014 - 2017)
- Faculty Board Member (2009 - 2017)
- Graduate School for Engr. and Science Board Member (2009 - 2014)
- International Student Exchange Group Member (2007 - 2008)
- Graduate Committee Member (2002 - 2003)
- Assessment Committee Member (2002 - 2003)
- Faculty Awards and Scholarship Committee Member (2002 - 2003)

Department

- Chairman of the Computer Science and Engineering Department (2009 - 2014)
- Director of Graduate Studies (2002 - 2003)
- Admissions Tutor for the Advanced Microelectronic Systems Engineering Graduate Program (2008 - 2009)
- Programme Director for Study Abroad and European Exchange Students (2007 - 2008)
- Learning and Teaching Committee Member (2007 - 2008)
- Faculty Search Committee Member (2001 - 2003)

University

- Member of the Senate (2014 - 2017)
- Member of the University Management Board (2014 - 2017)
- Member of the President's Working Group for building the roadmap to be ranked in the top 500 universities worldwide (2011)
- Member of the Working Group for establishing *the Centre of Excellence in Microelectronics* (2007 - 2009)
- Member of the Search Committee for the Director of the School of Computer Science (2003 - 2005)

**BOARD OF SUPERVISORS FOR THE
UNIVERSITY OF LOUISIANA SYSTEM**

PERSONNEL COMMITTEE

December 6, 2018

- Item I.2.** **University of New Orleans'** request for approval to appoint Mr. Vincent Granito as Interim Director of Athletics effective November 3, 2018.

EXECUTIVE SUMMARY

The University requests approval to appoint Mr. Vincent Granito as Interim Director of Athletics effective November 3, 2018 at an annual salary of \$110,000. The staff recommends approval.

RECOMMENDATION

It is recommended that the following resolution be adopted:

***NOW, THEREFORE, BE IT RESOLVED,** that the Board of Supervisors for the University of Louisiana System hereby approves University of New Orleans' request to appoint Mr. Vincent Granito as Interim Director of Athletics effective November 3, 2018.*



THE UNIVERSITY *of*
NEW ORLEANS

OFFICE OF THE PRESIDENT

November 1, 2018

Dr. Jim Henderson
President
The University of Louisiana System
1201 North Third Street
Baton Rouge, LA 70802

Dear Dr. Henderson,

The University of New Orleans requests approval to appoint Mr. Vincent Granito to the position of Interim Director of Athletics to begin effective November 3, 2018 and end once the position is filled on a permanent basis.

Thank you for your consideration of this request. Please do not hesitate to contact me should you have any questions.

Sincerely,

John W. Nicklow
President

Vincent Granito

Collegiate Athletics Professional

Strategic contributor with a stellar record of managing top-flight athletic operations that advance excellence in education and intercollegiate programs.

Experienced leader with 30+ years managing a comprehensive portfolio of college athletic services including program oversight, student/athlete wellbeing, event operations & sales, personnel management, marketing, facilities, as well as finances & revenue generation; able to prioritize and align Athletic Department practices with the overarching strategic mission of the University. Outstanding ability to frame problems and develop collaborative initiatives. Recognized for tireless dedication to serve student athletes, mentor staff, cultivate alumni & donors, and advance institutional priorities.

Hold an MS in Sports Administration.

PROFESSIONAL EXPERIENCE

UNIVERSITY OF NEW ORLEANS - Department of Intercollegiate Athletics, New Orleans, LA

Elite University Division I program dedicated to student-athlete competitive and academic success.

Associate Athletic Director for Internal Operations, April 2017 - Present

Supervise all aspects of UNO Athletics facilities and facility management to include scheduling, maintenance and personnel staffing. Serve as UNO Athletics liaison with campus facility services.

- Assist Director of Athletics with department budgeting including management of sport specific and support program expenses.
- Manage student-athlete support and team support operations including sports medicine, equipment management, strength and conditioning.
- Supervise and manage game and event operations including coordination of game day staffing, visiting team liaison, game officials liaison and other responsibilities associated with UNO event management.
- Oversee construction and renovation of existing and new athletics facilities.
- Supervise special projects and represent UNO Athletics in community partnership initiatives as needed.
- Represent UNO Athletics at Southland Conference meetings/events in absence of Director of Athletics and as requested by Director of Athletics.
- Represent UNO Athletics at special events as requested by Director of Athletics.
- Manage daily operations of UNO Athletics in absence of Director of Athletics and as requested by Director of Athletics.
- Perform additional duties as assigned by Director of Athletics.

TULANE UNIVERSITY – Department of Intercollegiate Athletics, New Orleans, LA

Highly selective University Division I program dedicated to student-athlete competitive success, personal growth, and academic success.

Associate Athletic Director, Facilities/ Event Management, 2001 - 2016

Executive team leader; responsible for oversight of all home athletic events and athletic facility management in coordination with staff, coaches and outside entities.

- Directed the development of staff, services, and systems to create a culture known for its professional and fan friendly environment;
 - Established and managed revenue-generating entities, such as the athletics store, website, online store, and concessions operations at various venues.
 - Initiated and co-chaired university-wide committee to develop and enhance TU trademarks; increased marketability of school/athletic merchandise and brand awareness.
- Served as Construction Liaison, as well as provided day-to-day oversight of facility operations during critical additions of \$100MM in athletic facilities; such as Yulman Stadium, Greer Field and Devlin Fieldhouse.
- Fostered close ties with NCAA Division I Championship Staff, the City of New Orleans and the local organizing committee to successfully manage all aspects of the nation's largest and most prestigious events, including \$12MM budget oversight and coordination of tournament operations including housing, volunteers, game management and coordination of tournament logistics.
- Cultivated strong relationships with department staff, university academic personnel, and other colleagues.

- Established an on-going collaboration with other university departments to solicit feedback, gain trust and strengthen processes to better anticipate and respond to needs.
- Provided ongoing performance coaching to staff to increase productivity and engagement; established clear expectations for staff and counseled employees around performance improvement concerns.
- Hurricane Katrina: Shifted operations to campus of Texas A&M; provided oversight of six sports teams, including housing and competition for Fall 2005. Quickly managed transitions to entirely new facilities and academic faculty. Accountable for student wellbeing and regional reporting to AD. Reestablished program in Spring 2006 through creative problem solving and resource utilization

SIGNIFICANT SUCCESSFUL EVENTS

- 2012 NCAA Div. I - Men's Final Four
- 2011 NCAA Div. I - Men's Basketball Regional
- 2010 NCAA Div. I - Men's Basketball 1st & 2nd Rounds
- 2007 NCAA Div. I - Men's Basketball 1st & 2nd Rounds
- 2013 NCAA Div. I - Women's Final Four
- 2004 NCAA Div. I - Women's Final Four
- 1999 NCAA Div. I - Track & Field Championship

Numerous other NCAA, Conference and LHSAA championships and events.

Associate Athletic Director, Internal Affairs, 1999- 2001

- Initiated and co-chaired university-wide committee to develop and enhance TU athletic trademarks; increased sales, marketability and brand awareness leading to higher sales and royalty revenue.
- Managed process for outsourcing of departmental marketing rights which resulted in an increase in marketing revenue and upgraded departmental marketing efforts.

Associate Athletic Director, External Affairs, 1997- 1999

- Created and managed internal athletic ticket sales team and hired outside sourcing company; resulted in an increase in ticket sales across all sports.
- Oversaw sales team for radio, TV, program and athletic sponsorship advertising packages.
- Developed Athletic Retail Store; sold licensed university/ athletic merchandise and created first online store for Athletic website. Increased sales of merchandise each year.

Director of Ticket Operations, 1987- 1997

- Managed all aspect of the Athletic Ticket office: including invoicing, renewal, accounting, printing, shipping and customer service for season and single game sales of all sports.
- Oversaw computer operations.
- Served as primary contact for customer relations and service for all ticketing inquiries.
- Coordinated with donor relations staff to cultivate and support alumni/ fans.

As part of management team to reinstitute Men's Basketball program, reestablished ticketing, marketing, event operations, and concessions resulting in a 400% growth from years one through four.

EDUCATION & TRAINING

M.S., Sports Administration
ST, THOMAS UNIVERSITY, Miami, FL

B.S., Business Administration
YOUNGSTOWN STATE, Youngstown, OH
Magna Cum Laude

DISTINCTIONS & COMMUNITY INVOLVEMENT

Tulane University President's Staff Excellence Award -2013

Award bestowed upon ten non-faculty members of community for best representing high achievement in contributions to the University.

St. Paul's Episcopal School Board – 2006-2012

Served as member of School Board for two terms; provided oversight of School Headmaster performance, along with long-range planning, budget review, and the national accreditation process.