

gazi university engineering faculty

department of computer engineering



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Mission

The mission of Gazi University Computer Engineering Department is to graduate socially and ethically conscious engineers who are equipped with the necessary analytical, practical, mathematical, communication, teamwork and leadership skills that they can use to design, implement, manage, and maintain today's modern computer software, hardware and information systems in a creative way.

Vision

The vision of Gazi University Computer Engineering Department is to be recognized regionally and internationally as an educational institution which offers the highest quality undergraduate and graduate education by giving importance to academic excellence and practical knowledge.

Academic Staff

- Prof. Dr. M. Ali Akcayol (Chairman)
- Prof. Dr. Şeref Sağıroğlu (Director of Institute of Natural and Applied Science)
- Assoc. Prof. Dr. Hasan Şakir Bilge (Vice Chairman)
- Assoc. Prof. Dr. Suat Özdemir (Vice Chairman)
- Assist. Prof. Dr. Hacer Karacan (Vice Director of Institute of Information)
- Assist. Prof. Dr. Umut Arıöz (Project Coordination IRC Vice Chairman)
- Assist. Prof. Dr. Mehmet Demirci
- Instructor Dr. Murat Hacıömeroğlu
- Instructor Dr. Muhammet Ünal
- Instructor Dr. Oktay Yıldız

Academic Staff

- Res. Asst. Uraz Yavanoğlu
- Res. Asst. Eyüp Burak Ceyhan
- Res. Asst. Feyza Yıldırım Okay
- Res. Asst. Ceren Güzel
- Res. Asst. Ali Şenol
- Res. Asst. Mahmut Kaya
- Res. Asst. Merve Sedef Gündüz
- Res. Asst. Anıl Utku
- Res. Asst. Duygu Sinanç
- Res. Asst. Abdulkerim Senoglu
- Res. Asst. Ali Mumcu
- Res. Asst. Ramazan Terzi
- Res. Asst. Yavuz Canbay
- Res. Asst. Metehan Guzel
- Res. Asst. Ebru Aydogan
- Res. Asst. Mehmet Ayan

Part Time Instructors

- Prof. Dr. Etem Köklükaya
- Prof. Dr. Kurtuluş Soyluk
- Assoc. Prof. Dr. Mehmet Atak
- Assoc. Prof. Dr. Ay e Özçelik
- Assoc. Prof. Dr. Mustafa Fahri Akta
- Assist. Prof. Dr. İbrahim Alper Do ru
- Assist. Prof. Dr. Arıl Cansel
- Mehmet Değirmenci

Prof. Dr. M. Ali Akcayol

Education

- PhD, Gazi University, Institute of Science & Technology, 2001.
- MSc, Gazi University, Institute of Science & Technology, 1998.
- BSc, Gazi University, Faculty of Technical Education, Computer Systems Education, 1993.

Interests

Mobile Wireless Technologies, Web Technologies, Web Mining, Cloud Computing, Fuzzy Logic, Intelligent Optimization Techniques, Hybrid Intelligent Systems.

Prof. Dr. Şeref Sağiroğlu

Education

- PhD, Cardiff University, 1994.
- BSc, Erciyes University, Engineering Faculty, Department of Electrical Electronics Engineering, 1987.

Interests

Fuzzy Logic, Intelligent Antenna Analysis and Design, Artificial Neural Networks, Cyber Security, Information and Computer Security, Modeling and Control, Web-Based Real-Time System Monitoring, Use of Information Technology in Education, Digital Signal and Image Processing, Biometric Systems, Robotics, Steganographic Approaches, Mobile and Electronic Signature.

Assoc. Prof. Dr. Suat Özdemir

Education

- PhD, Arizona State University, Computer Sciences, 2006.
- MSc, Syracuse University, Computer Sciences, 2001.
- BSc, Selçuk University, Civil Engineering, 1997.

Interests

Computer Networks, Wireless Networking Technologies, Wireless Sensor Networks, Network Security Applications, Information Security, Data Mining.

Assoc. Prof. Dr. Hasan Şakir Bilge

Education

- PhD, Başkent University, Electrical-Electronics Engineering.
- MSc, Kırıkkale University, Electrical-Electronics Engineering.
- BSc, Yıldız Teknik University, Computer Sciences and Engineering.

Interests

Image Processing, Signal Processing, Beamforming, Ultrasonic Imaging, Digital Logic Circuits Design.

Assist. Prof. Dr. Hacer Karacan

Education

- PhD, Middle East Technical University, Institute of Informatics, Cognitive Science, 2007.
- MSc, Middle East Technical University, Institute of Informatics, Cognitive Science, 2005.
- BSc, Middle East Technical University, Computer and Instructional Technology Education, 2002.

Interests

Virtual Reality, Human-Computer Interaction, Artificial Intelligence, Software Engineering, Information Security.

Assist. Prof. Dr. Umut Ariöz

Education

- PhD, Middle East Technical University, Institute of Informatics, Medical Informatics, 2012.
- MSc, Hacettepe University, Institute of Graduate Studies in Science, Electrical-Electronics Engineering, 2004.
- BSc, Dokuz Eylül University, Engineering Faculty, Electrical-Electronics Engineering, 2001.

Interests

Biyomedical Signal Processing, Medical Information, Functional Magnetic Resonance Monitoring, Improving and Simulation of High Frequency Hearing Loss, Objective and Subjective Test Design and Statistical Analysis, Physical- Acoustic Analysis.

Assist. Prof. Dr. Mehmet Demirci

Education

- PhD, Georgia Institute of Technology, ABD, Computer Science, 2013
- MSc , Georgia Institute of Technology, ABD, Computer Science, 2009
- BSc, Purdue University, ABD, Computer Science and Mathematics, 2006

Interests

Network Virtualization, Overlay Networks, Software-defined Networking (SDN), Cloud Computing, Network Architecture, Future Internet, Network Management and Performance Monitoring, Network and Information Security

Instructor Dr. Murat Hacıömeroğlu

Education

- PhD, University of East Anglia, Computer Science.
- MSc, Başkent University, Computer Engineering.
- BSc, Başkent University, Computer Engineering.

Interests

3-D Computer Graphics, Crowd Simulations, Java.

Instructor Dr. Muhammet Ünal

Education

- PhD, Gazi University, Electrical-Electronics Engineering.
- MSc, Gazi University, Electrical-Electronics Engineering.
- BSc, Gazi University, Electrical-Electronics Engineering.

Interests

Wireless Networks and Wireless Network Security, Data Security and Encryption, Parallel and Distributed Programming, Multi-core Programming, Supercomputers, Computer Architectures, Embedded Systems.

Instructor Dr. Oktay Yıldız

Education

- PhD, Gazi University, Institute of Informatics.
- MSc, Gazi University, Institute of Science & Technology.
- BSc, Gazi University, Technical Education Faculty, Computer Systems Education.

Interests

Data Mining, Bioinformatics.

Publications

Publication Type	The Number of Publication	The Number of Publications/Academic Staff
SCI/SSCI	86	14
EI	25	4
Conference and National Journals	269	45
Total	380	63

International Projects

- Developing a Small Universal General Aimed Robot, 2005.
- Distance Learning Modelling in Gazi University, 2005.
- The Network of Excellence for Innovative Production Machines and Systems (I*PROMS), 2005-2006.
- Proje Ortağı, Gazi Üniversitesi, Online Distance Learning Model In European Union Law Education, Leonardo Vinci (B Tipi), 2006-2008.
- Web Based Mobile Robot for Scientific and Educational Purposes, 2005.

International Projects

- European Thematic Network Doctoral Education in Computing (ETN DEC), 2005.
- New Approaches and Defense Strategies in Data Security Partners: Head Council of Education and Morality-The Grand National Assembly of Turkey-Turkish Radio and Television Corporation–Gazi University Institute of Information-Information System Security Association-Turkish State Meteorological Service, European Union LdV Project.

National Projects

- Reconstruction of Traffic Inspection and Accident Expert Service and Optimization of Local Traffic Station Localization with Traffic Performance Based Source Management System, TÜBİTAK KAMAG 107G174 (Turkish National Police - Gazi University).
- National IPv6 Protocol Infrastructure and Transition Project, TÜBİTAK-KAMAG Operating Systems Lab..
- Intelligent Software Development for Information and Computer Security.
- Application Development About Malware and Against Precautions on Mobile Environments.
- GSM-based SCADA System Design and Implementation.

National Projects

- GSM/GPRS-based Wireless Network and Developing Health Information Network which Covers all of Turkey.
- Artificial Intelligence Based Query Healed Natural XML Open Source Database Server Software.
- Developing Broadband Wireless Mobile Networks Security Conscious Intelligent Routing Protocol.
- Developing Multi-Posted Protocol on Wireless Network
- 3G-Based Adaptive and Energy Efficient Smart Home Implementation.
- 3-D Discrete Cosine Transform based Feature Extraction for Face Recognition.
- Intelligent Microphone for Mobile Devices.

National Projects

- Digital Processing of Ultrasonic Images.
- The Development of Border Monitoring System with Wireless Sensor Networks for Turkey Border Safety.
- Sosyal Ağlarda Veri Madenciliği ile Kullanıcı Profil Analizi User Profile Analysis in Social Networks Using Data Mining.
- In-Network Outlier Detection Based Fault Tolerant Data Aggregation Protocols for Wireless Sensor Networks.
- Case Analysis and Rehabilitation of Cathodic Protection System, BOTAŞ.
- Supply Chain Management and Information Systems, Gazi University, Scientific Research Projects, 2005.

Labs

- Mobile and Wireless Communications Lab.
- Computer Design Lab.
- Data Mining Research Lab.
- Information Security Lab.
- Cisco Lab.
- Biometric Lab.
- Computer Networks Lab.
- Microprocessors Lab.
- Computer Lab.
- Hardware Lab.

Computer Lab.

- There are 56 computers for using in lessons and free times
- Computers' properties are:
 - Windows 7 operating system
 - Compilers for high-level programming languages
 - Mathematical analysis programs
 - .NET applications
 - Java applications
 - Internet access
- Gathered under the structure of a network
- In addition, all computers can be controlled remotely



Mobile and Wireless Communications Lab.

- This lab is used for
 - National wireless communication researches,
 - Giving applied education about wireless communication,
 - Giving applied education about next-generation communication techniques,
 - National and international projects with industry.
- This lab is used extensively by graduate students for their MSc and PhD thesis applications.



Computer Network Lab.

- Computer Networks Lab. equipments are donated by the Defense Industries Undersecretariat to the department
- Undergraduate and graduate education are performed
- There are ATM backbone equipment, ATM switches, ATM network cards and fiber cables in the lab.
- Network group which is one of the groups established by undergraduates within the department, carries out the necessary works in this lab.

Hardware Lab.

- Hardware lab equipments are donated by the Defense Industries Undersecretariat to the department
- Undergraduate and graduate education are performed
- There are computers and computer equipments in the lab.
- Hardware group which is one of the groups established by undergraduates within the department, carries out the necessary work in this lab.



Cisco Lab.

- It is established for final year undergraduate students to carry out their works on graduation projects.
- This lab is used extensively by graduate students for their MSc and PhD thesis' applications.
- There are 24 computers, 12 routers and 12 switches in the lab.
- Students can make arrangements which they want through the projects on computers.



Microprocessor Lab.

- There are:
 - 40 pieces of ESA training board
 - The necessary software
- This lab is established for:
 - BSc and MSc studies
 - Advanced microprocessor courses
 - The design of complex digital systems



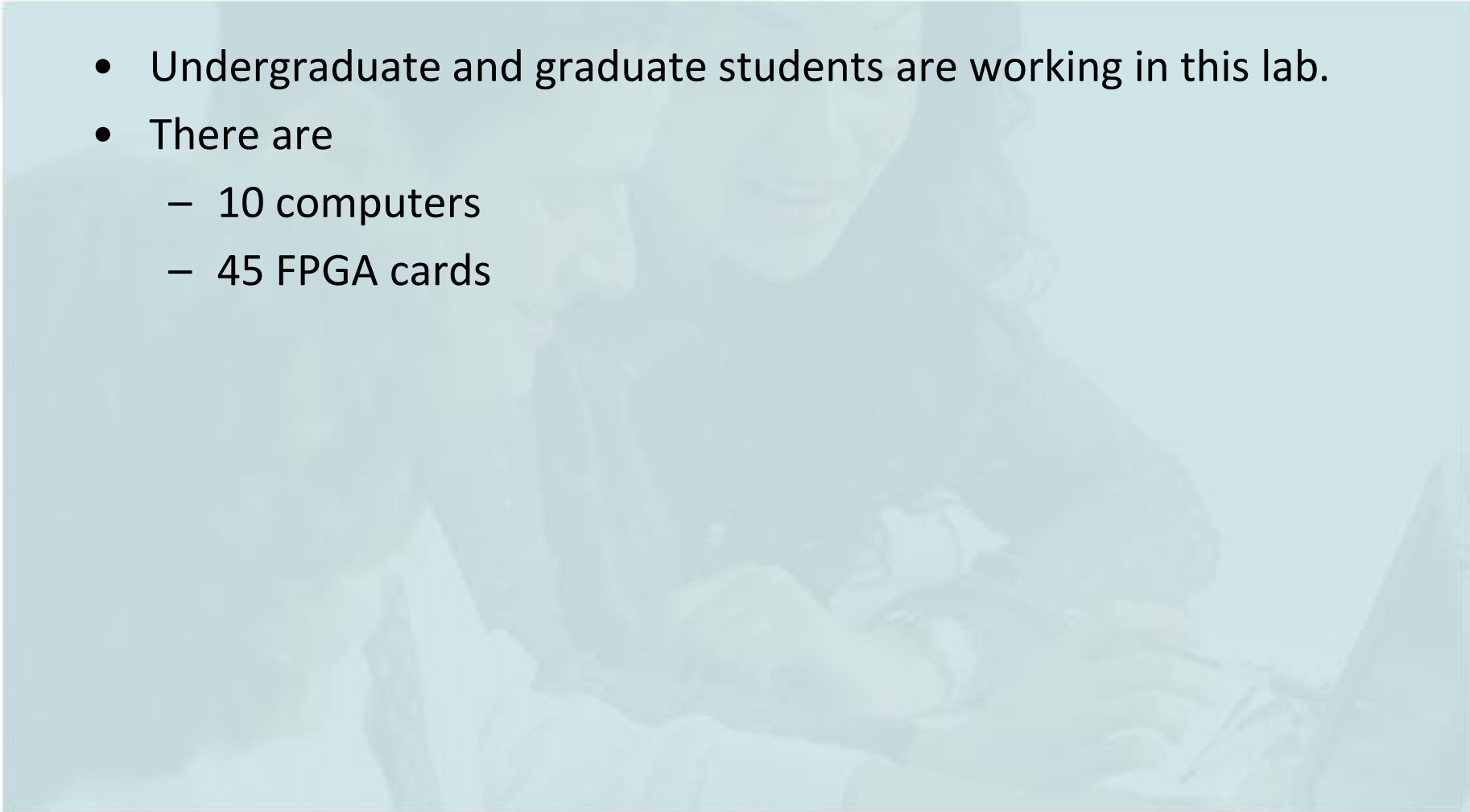
Biometric Lab.

- Undergraduate and graduate students are working in this lab.
- There are 5 computers, biometric feature readers and a huge library in the lab.



Computer Design Lab.

- Undergraduate and graduate students are working in this lab.
- There are
 - 10 computers
 - 45 FPGA cards





Data Mining Lab.

- Graduate students are working in this lab.
- There are 10 computers and up to date data mining software in the lab.



Erasmus

- Gazi University Computer Engineering Department takes part in ERASMUS program actively by sending students or teaching staff and accepting visiting students.
- We sent 29 students to European Universities within Erasmus program.
- We accepted 9 foreign students for undergraduate education.
- 4 academic staffs have taught in Spain and England within Erasmus Teaching Mobility program.

Erasmus

- Our department has bilateral agreements with the following universities:
 - Vigo University, Spain
 - Eastern Finland University, Finland
 - Hildesheim University, Germany
 - Alcala University, Spain
 - Porto University, Portugal
 - Sheffield University, England (only teaching staff exchange)

Contact

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