

ITU

**FACULTY OF ELECTRICAL
AND ELECTRONICS
ENGINEERING**

2008

Prof. Dr. H. Hakan Kuntman, Dean

kuntman@itu.edu.tr

Faculty of Electrical and Electronics Engineering

- Founded in 1934 –as Electro-mechanical department of Engineering Academy
- 1937 Electrical communication Section of Engineering School
- 1939 Electrical Engineering Department of Engineering School
- 1944 Electrical Engineering Faculty of Istanbul Technical University
- Electrical&Electronics Eng. Faculty
- 2008, Celebrating the 74. Anniversary

RECTOR of ITU
Prof. Dr.H. Faruk KARADOĞAN

DEAN of ELECTRICAL & ELECTRONICS ENG. FACULTY
Prof. Dr. H. Hakan KUNTMAN

EXECUTIVE BOARD

FACULTY BOARD

Vice Dean
Prof. Dr. Sema OKTUĞ
(Education)

Student Office

Recreation Committee

Double Major Program
Committee

Transfers Committee

Vice Dean
Prof.Dr. Adnan KAYPMAZ
(Administrative)

Purchasing Committee

Scholarship Committee

Library & Press Committee

Sports Committee

Electronics & Communication Eng.Dept.
Prof. Dr. Bilge GÜNSEL

Faculty Secretary
Serpil AKSOY

Registration Office

Desk Office

Accounting Office

Purchasing/Shipping
Office

Register Office

**Continuous Improvement
Committee**

Curriculum Committee

Accreditation and Quality
Committee

Faculty Improvement
Committee

Information Technologies
Committee

Industrial Relations & Summer
Training Committee

Alumni Committee

Computer Engineering Dept.
Prof. Dr.Eşref ADALI

Electrical Engineering Dept.
Prof. Dr. Ömer USTA

Control Engineering Dept.

Organization Structure

- Dean
- Vice Deans
 - Prof. Dr. Adnan KAYPMAZ- Administrative
 - Prof. Dr. Sema OKTUĞ - Education
- Faculty Secretary
 - Administrative Offices
- Departments
- Faculty Committees
- Executive Board
- Faculty Board

Faculty Secretary and Admin. Offices

- Faculty Secretary: Ms. Serpil Aksoy
- Personnel Office
- Student Office
- Accounting Office
- Registration Office
- Purchasing Office
- Register Office

Executive Board

- Responsible for the day-to-day running of Faculty
- Meets every week
 - Dean, Prof.Dr. Hakan Kuntman
 - Elected Members
 - Prof.Dr. Eşref Adalı, Representative of Prof.
 - Prof.Dr. Bilge Günsel, Representative of Prof.
 - Prof.Dr. Aydoğan Özdemir, Representative of Prof.
 - Assoc.Prof. Işın Yazgan Erer, Representative of Assoc. Prof.
 - Assoc.Prof. Özcan. Kalenderli, Representative of Assoc. Prof.
 - Assist.Prof. Şima Etaner Uyar, Representative of Assist. Prof.
 - Yaprak Yalçın, Representative of RA&TA

└ Vice Deansy and Faculty Secretary

Faculty Board

- Highest academic council of the Faculty
- Meets app. once a month
 - Dean, Prof.Dr. Hakan Kuntman
 - Prof.Dr. Eşref Adalı, Head of Computer Eng. Dept.
 - Prof.Dr. Bilge Günşel, Head of Computer Eng. Dept.
 - Prof.Dr. Ömer Usta, Head of Computer Eng. Dept.
- Elected Members
 - Prof. Dr. Müjde Güzelkaya, Representative of Prof.
 - Prof.Dr. Aydoğan Özdemir, Representative of Prof.
 - Prof.Dr. Emre Harmancı, Representative of Prof.
 - Assoc.Prof. Zümray Dokur, Representative of Assoc. Prof.
 - Assoc.Prof. Selçuk Paker, Representative of Assoc. Prof.
 - Assist. Prof. Nil Tarım, Representative of Assist. Prof.

□ Vice Deans and Faculty Secretary

Committees

- Accreditation Committee
- Double Major Committee
- Transfer Committee
- Scholarship Committee
- Curriculum Development Committee
- Social Affairs Committee
- Purchasing Committee
- Library & Press Committee
- Academic Affairs Committee
- Public Relations Committee
- Alumni Committee
- Equipment Disposal Committee
- Facility Improvement Committee
- Summer Training Committee

Departments and Sections - Undergraduate Programs

- Computer Engineering Department
 - Computer Engineering Program
 - Computer Science Section
- Electronics and Communications Engineering Department
 - Telecommunication Program
 - Communication Section
 - Electromagnetic wave & Microwave Technics Section
 - Electronics Program
 - Electronics Section
 - Circuits and Systems Section
- Electrical Engineering Department
 - Electrical Engineering Program
 - Electrical Systems Section
 - Electrical Machines Section
- Control Engineering Department
 - Control Engineering Program
 - Control and automation Systems Section

ITU-SUNY Information Systems Engineering Program

Graduate Programs

- Computer Engineering
 - Computer Engineering Graduate Program
 - Computer Science Graduate Program
 - Information Technologies Graduate Program (No Thesis)
- Electronics and Communications Engineering
 - Telecommunication Graduate Program
 - Electronics Graduate Program
 - Biomedical Graduate Program
 - Satellite Receivers and Remote Sensing Grad. Program
- Electrical Engineering
 - Electrical Engineering Graduate Program
- Control Engineering
 - Control and Automation Graduate Program

Research Labs & Centers

- **VLSI Design Laboratory**
- **Multimedia Signal Processing and Pattern Recognition Laboratory**
- **Circuits & Systems Laboratory**
- **Electromagnetic Diagnostic and Measurement Laboratory**
- **Embedded Systems Design Laboratory**
- **Communications Laboratory**
- **Signal Processing Laboratory**
- **Microwave Systems and Antennas Laboratory**
- **Biomedical Electronics Laborator**

Research Labs & Centers

- **Industrial Automation Laboratory**
- **Robotics Laboratory**
- **Process Laboratory**
- **Control Laboratory**
- **Measurement and Instrumentation Laboratory**
- **Power Control Laboratory**

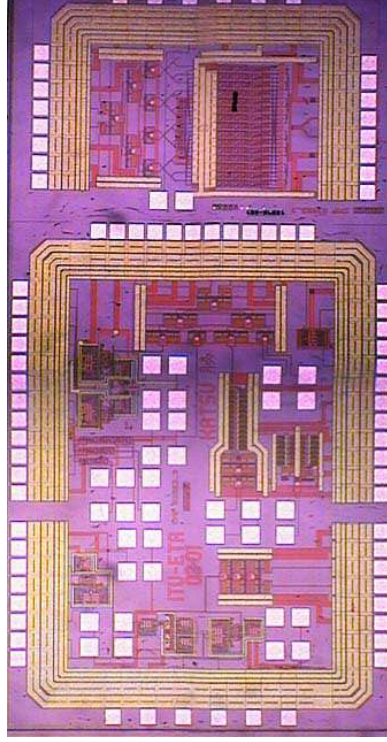
Research Labs & Centers

- **Illumination and Indoor Installations Laboratory**
- **Electrical Power Systems Laboratory**
- **Electrical Machines Laboratory**
- **Electrical Installations Laboratory**
- **Power Electronics Laboratory**
- **Control Laboratory**
- **Nuclear Power Laboratory**
- **High Voltage Laboratory**

Research Labs & Centers

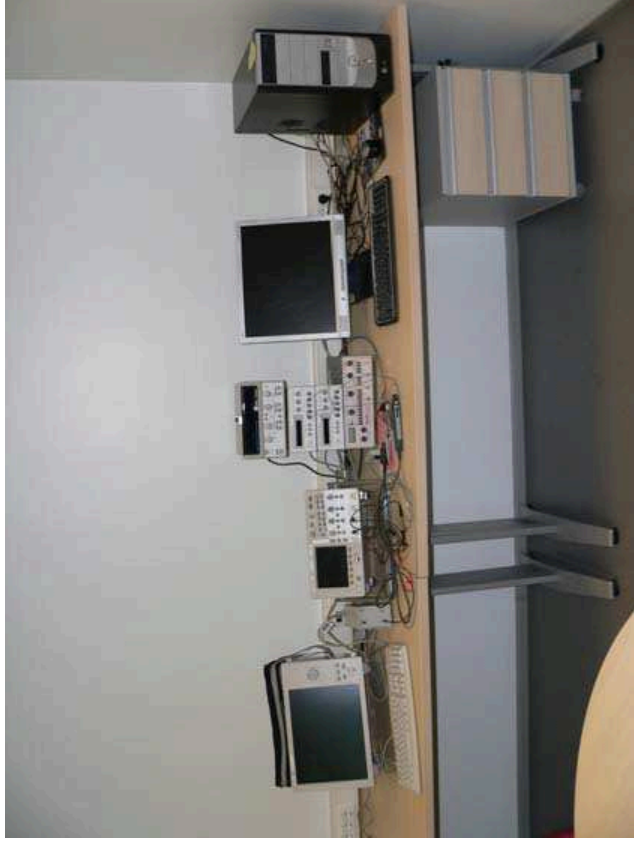
- **Multimedia Center**
- **Software Development Center**
- **Distance Education Center**
- **Satellite Communication Center and Sat. Ground Station**
- **Modelling and Simulation Lab**
- **Computer Vision and Image Proc. Lab.**
- **Distributed Computing and Computer Network Lab.**

■ VLSI Lab.



Research Labs & Centers

- **Embedded System Design Lab.**



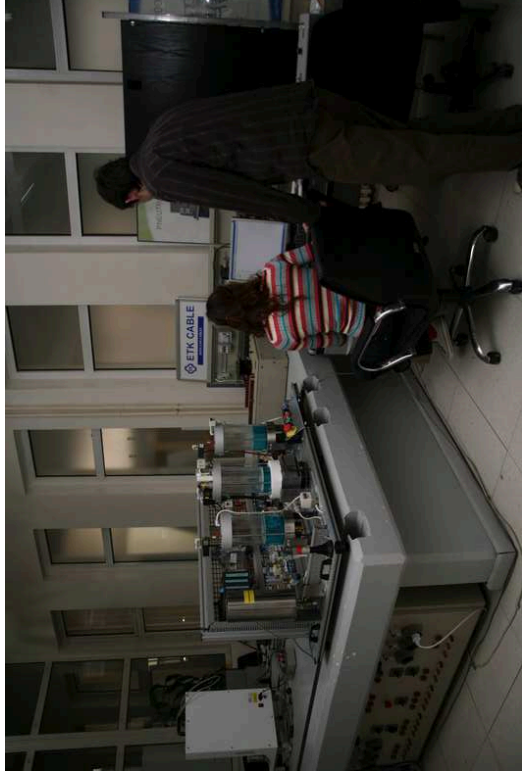
Research Labs & Centers

- **EMC Lab.**



Research Labs & Centers

- **Industrial Automation Lab.**



Research Labs & Centers

- **Electrical Machines Lab.**



Research Labs & Centers

- **Measurement and Instrumentation Laboratory**



Research Labs & Centers

- **Robotics Laboratory**



Number of Students (Undergraduate)

Electronics and Communication Engineering	62
Electrical Engineering	594
Computer Engineering	562
Electronics Engineering	395
Control Engineering	278
Telecommunication Engineering	333
Control and Computer Engineering	11
Information Systems Engineering	111
Totally	2346

Number of Students (M.Sc. And Ph.D)

	M.Sc.	Ph.D
Electrical Engineering	121	32
Control ve Automation Engineering	89	29
Elektronics and Communication Engineering	18	24
Biomedical Engineering.	41	5
Elektronics Engineering	78	29
Telecommunication Engineering	99	34
Computer Engineering	132	57
Totally	578	210

Mission and Objectives of EEF

- As a higher education and research institution dedicated to the advancement of basic and applied sciences, our mission is to educate the technological leaders and entrepreneurs of the future in a rich intellectual environment sensitive to both local and global issues.

Faculty's objectives:

- To graduate Computer, electrical, electronic, telecommunication, and control engineers who
 - Learn how to attain knowledge
 - Are creative, dynamic, collaborative,
 - Speak English well
 - Are global yet respectful of the local
 - Are proficient in the latest technology
 - Are keen on research
 - Are very sociable
 - Are useful for the country and the world
 - Have professional ethics
- To establish Continuous Improvement Models in teaching
- To carry out research in global standards and publish them
- To create human resources to carry out high quality education and research
- To develop technologies to meet national and international needs

Continuous Improvement Process

- Carried out in Program Level
- Each department has its own model
 - Define program's mission and objectives
 - Determine outcomes and strategies
 - Implement strategies
 - Measure and evaluate achievements
 - Make necessary changes

Change Management

Based on the information supplied to the Faculty board

- ❑ educational objectives of the program can be modified,
- ❑ objective(s) for a course can be modified,
- ❑ program curriculum can be modified,
- ❑ education technique(s) for a course can be modified.

Faculty Members

- 37 Professors**
- 24 Associate Professors**
- 27 Assistant Professors**

- 13 Lecturers**
- 87 Research Assistants**
- 1 Expert**

Faculty Members

ELECTRONICS AND COMMUNICATION DEPARTMENT



ELECTRONICS DIVISION



PROF.DR. HAKAN KUNTMAN
PROF. DR. İNCİ ÇİLEŞİZ
PROF. DR. TAMER ÖLMEZ
PROF.DR. SADRI ÖZCAN
PROF. DR. MELİH PAZARCI
PROF.DR. ALİ TOKER
PROF. DR. OSMAN PALAMUTÇUOĞULLARI
PROF. DR. ALİ ZEKI



ASSOC. PROF. DR. ZÜMRAY DOKUR ÖLMEZ
ASSOC. PROF. DR. MEHMET KORÜREK

ASSIS. PROF. DR. N. BANU TARIM
ASSIS. PROF. DR. METİN YAZGI
ASSIS. PROF.DR. DEVRİM YILMAZ AKSİN

LECTURER DR. AYHAN ÖZTÜRK
LECTURER DR. H.BÜLENT YAGCI
LECTURER DR. RIZA CAN TARCAN

RESEARCH ASSIS. VEDAT TAVAS
RESEARCH ASSIS. ERDOĞAN ÖZGÜR ATEŞ
RESEARCH ASSIS. SİNEM KELEŞ
RESEARCH ASSIS. TOLGA KAYA
RESEARCH ASSIS. ATILLA UYGUR
RESEARCH ASSIS. MUSTAFA SAYGINER
RESEARCH ASSIS. ZAFER İŞCAN
RESEARCH ASSIS. HAYRİ UĞUR UYANIK
RESEARCH ASSIS. PINAR BAŞAK BAŞYURT
RESEARCH ASSIS. MUSTAFA ALTUN
RESEARCH ASSIS. AYHAN YÜKSEL

Faculty Members

ELECTRONICS AND COMMUNICATION DEPARTMENT

COMMUNICATION DIVISION

PROF.DR. TAYFUN AKGÜL
PROF. DR. H. ÜMİT AYGÖLÜ
PROF.DR. BİLGE GÜNSEL
PROF. DR. A. HAMDİ KAYRAN
PROF. DR. M. ERTUĞRUL ÇELEBİ

ASSOC. PROF. DR. IŞIL CELASUN

ASSOC. PROF. DR. İBRAHİM ALTUNBAŞ
ASSOC. PROF. DR. IŞIN YAZGAN ERER

LECTURER TAYFUN BULCA

RESEARCH ASSIS. SUAT AKSU
RESEARCH ASSIS. ÖZGÜR ORUÇ
RESEARCH ASSIS. HACI İLHAN
RESEARCH ASSIS. MUSTAFA KÖSEM
RESEARCH ASSIS. CERCİS ÖZGÜR SOLMAZ
RESEARCH ASSIS. SÜLEYMAN BAYKUT
RESEARCH ASSIS. AHMET KORHAN TANC
RESEARCH ASSIS. CENGİZ BEKTAŞ
RESEARCH ASSIS. MUSTAFA ERSİN KARAAĞAÇ

ASSIS. PROF. DR. ENDER METE EKŞİOĞLU

Faculty Members

ELECTRONICS AND COMMUNICATION DEPARTMENT

CIRCUITS AND SYSTEMS DIVISION

PROF.DR. FUAT ANDAY
PROF. DR. E. OLCAY GÜNEŞ
PROF. DR. KÜLMİZ ÇEVİK
PROF. DR. ÇETİN KAYA KOÇ

LECTURER DR. DENİZ BALKAN
LECTURER DR. YÜKSEL ÇAKIR

ASSOC. PROF. DR. İ. SERDAR ÖZOĞUZ
ASSOC. PROF. DR. MÜRVE T ÜÇER KIRCI

RESEARCH ASSIS. MURAT ŞİMŞEK
RESEARCH ASSIS. SERKAN ACAR
RESEARCH ASSIS. LEVENT AKSOY
RESEARCH ASSIS. ÖZKAN KARABACAK
RESEARCH ASSIS. FETHİ GÜR
RESEARCH ASSIS. AHMET ŞAMİL DEMİRKOL
RESEARCH ASSIS. BAHATTİN KOCAMAN
RESEARCH ASSIS. MEHMET TÜKEL

ASSIS. PROF. DR. NESLİHAN ŞENGÖR
ASSIS. PROF. DR. M. ERHAN YALÇIN
ASSIS. PROF. DR. S. BERNA ÖRS

ASSIS.PROF. DR. M. HÜNER

Faculty Members

ELECTRONICS AND COMMUNICATION DEPARTMENT

ELECTROMAGNETIC FIELDS AND MICROWAVE TECHNIQUE DIVISION

PROF.DR. İBRAHİM AKDUMAN
PROF. DR. M. TAYFUN GÜNEL
PROF. DR. SEDEF KENT

ASSOC. PROF. DR. CEVDET IŞIK
ASSOC. PROF. DR. ALİ YAPAR
ASSOC. PROF. DR. SELÇUK PAKER

ASSIS. PROF. DR. FUNDA AKLEMAN
ASSIS. PROF. DR. MESUT KARTAL
ASSIS. PROF.DR. ÖZGÜR ÖZDEMİR

RESEARCH ASSIS. NECİP GÖKHAN KASAPOĞLU
RESEARCH ASSIS.İBRAHİM PAPİLA
RESEARCH ASSIS.NECMİ SERKAN TEZEL
RESEARCH ASSIS. SERKAN ŞİMŞEK
RESEARCH ASSIS. FATİH YAMAN
RESEARCH ASSIS. EVRİM TETİK
RESEARCH ASSIS. ONUR MUDANYALI

Faculty Members

ELECTRICAL ENGINEERING DEPARTMENT

ELECTRICAL MACHINES DIVISION

PROF. DR. FAİK Mergen

ASSIS. PROF. DR. DENİZ YILDIRIM
ASSIS. PROF. DR. LEVENT OVACIK
ASSIS. PROF. DR. ÖZGÜR ÜSTÜN

LECTURER DR. AZMİ DEMİREL
LECTURER TAŞDEMİR AŞAN
LECTURER DR. GÜVEN KÖMÜRGÖZ
LECTURER DR. AHMET KOCABAŞ
RESEARCH ASSIS. A. SAFFET ALTAY
RESEARCH ASSIS. EDİZ GİZLİER
RESEARCH ASSIS. FİLİZ GÜRGÖZE
RESEARCH ASSIS. AHU ECE HARTAVI
RESEARCH ASSIS. MURAT İMERYÜZ
RESEARCH ASSIS. FUAT KÜÇÜK
RESEARCH ASSIS. MURAT YILMAZ
RESEARCH ASSIS. ŞÜKRÜ ERTİKE
RESEARCH ASSIS. A. KUBİLAY ATALAY
EXPERT OSMAN ERENAY

Faculty Members

ELECTRICAL ENGINEERING DEPARTMENT

ELEKTRICAL POWER SYSTEMS DIVISION

PROF. DR. AYŞEN DEMİRÖREN
PROF.DR. ADNAN KAYPMAZ
PROF. DR. KEVORK MARDİKİYAN
PROF. DR. AYDOĞAN ÖZDEMİR
PROF. DR. SERHAT ŞEKER
PROF. DR. ÖMER USTA

ASSOC. PROF. MUSTAFA BAĞRIYANIK
ASSOC. PROF. DİLEK ENARUN
ASSOC. PROF. NAZİF HÜLAGÜ SOHTAOĞLU
ASSOC. PROF. BELGİN (EMRE) TÜRKAY
ASSOC. PROF. ÖZCAN KALENDERLİ

ASSIS. PROF. EMİNE AYAZ
ASSIS. PROF. İSTEMİHAN GENÇ
ASSIS. PROF. ÖMER GÜL
ASSIS. PROF. H. LALE ZEYNELGİL
ASSIS. PROF. RAMAZAN ÇAĞLAR

LECTURER. DR. ZEHRA ELİF AYGEN
LECTURER. DR. F. GÜL BAĞRIYANIK
RESEARCH ASSIS. DR. EMEL ÖNAL
RESEARCH ASSIS. BANU ÖZTÜRK
RESEARCH ASSIS. CANAN ZOBİ
RESEARCH ASSIS. SUNA BOLAT
RESEARCH ASSIS. DUYGU ÇETEGEN
RESEARCH ASSIS. NURŞEN DÜNDAR
RESEARCH ASSIS. SUAT İLHAN
RESEARCH ASSIS. LALE ERDEM
RESEARCH ASSIS. GÖKHAN KARACA
RESEARCH ASSIS. ALPER KARA
RESEARCH ASSIS. C. FATİH KÜÇÜKTEZCAN
RESEARCH ASSIS. AYKUT CAN SERRİCAN
RESEARCH ASSIS. TAYFUN ŞENGÜLER

Faculty Members

CONTROL ENGINEERING DEPARTMENT

CONTROL AND AUTOMATION SYSTEMS DIVISION

PROF. DR. ATILLA BİR
PROF. DR. İBRAHİM EKŞİN
PROF. DR. LEYLA GÖREN
PROF. DR. MÜJDE GÜZELKAYA
PROF. DR. HAKAN TEMELTAŞ
PROF. DR. METİN GÖKAŞAN

ASSOC. PROF. DR. FUAT GÜRLİYEN
ASSOC. PROF. DR. SALMAN KURTULAN
ASSOC. PROF. DR. CEVAT ERDAL
ASSOC. PROF. DR. MEHMET TURAN SÖYLEMEZ

ASSIS. PROF. DR. FİKRET ÇALIŞKAN
ASSIS. PROF. DR. SERHAT İKİZOĞLU

LECTURER YÜCEL AYDIN
RESEARCH ASSIS. ALİ FUAT ERGENÇ
RESEARCH ASSIS. İBRAHİM TOLGA HASDEMİR
RESEARCH ASSIS. ÖZGÜR TURAY KAYMAKÇI
RESEARCH ASSIS. İLKER ÜSTOĞLU
RESEARCH ASSIS. ENGİN YEŞİL
RESEARCH ASSIS. YAPRAK YALÇIN
RESEARCH ASSIS. SİDDİK MURAT YEŞİLOĞLU
RESEARCH ASSIS. ÖZGÜR AYDIN TEKİN
RESEARCH ASSIS. AHMET FAİK GÜVEN
RESEARCH ASSIS. VEYSEL GÜRKAN ANIK
RESEARCH ASSIS. ÇAĞRI BAHADIR
RESEARCH ASSIS. YUSUF GÜRKAYNAK

Faculty Members

COMPUTER ENGINEERING DEPARTMENT

COMPUTER SCIENCES DIVISION

PROF. DR. EŐREK ADALI
PROF. DR. NADIA ERDOĐAN
PROF. DR. ALI EMRE HARMANCI

ASSOC. PROF. AHMET SABİH ATADAN
ASSOC. PROF. F. SEMA OKTUĐ

ASSIS. PROF. TURGAY ALTILAR
ASSIS. PROF. FEZA BUZLUCA
ASSIS. PROF. OSMAN KAAAN EROL
ASSIS. PROF. AYŐEGÜL GENÇATA
ASSIS. PROF. A. ŐİMA UYAR
ASSIS. PROF. B. BERK ÜSTÜNDAĐ
ASSIS. PROF. ŐULE GÜNDÜZ
ASSIS. PROF. ZEHRA ÇATALTEPE
ASSIS. PROF. M. ERSEL KAMASAK

LECTURER H. TURGUT UYAR
LECTURER DR. YAŐAR ERENLER
LECTURER BİNNUR KURT
RESEARCH ASSIS. TACETTİN AYAR
RESEARCH ASSIS. ÇİÇEK ÇAVDAR
RESEARCH ASSIS. ANIL SUAT TERLİKSİZ
RESEARCH ASSIS. ORHAN BIYIKLIOĐLU
RESEARCH ASSIS. GÜLŐEN CEBİROĐLU
RESEARCH ASSIS. MELİKE EROL
RESEARCH ASSIS. MEHMET DERİN HARMANCI
RESEARCH ASSIS. TOLGA OVATMAN
RESEARCH ASSIS. SANEM SARIEL
RESEARCH ASSIS. AHMET ÇAGATAY TALAY
RESEARCH ASSIS. AHMET CÜNEYT TANTUĐ
RESEARCH ASSIS. ENDER YÜKSEL
RESEARCH ASSIS. BURAK KANTARCI
RESEARCH ASSIS. FATİH KESĐİN
RESEARCH ASSIS. YUSUF YAŐLAN
RESEARCH ASSIS. BERK CANBERK
RESEARCH ASSIS. İLKNUR KARADENİZ

SCI, SCI-E, EI Publications, 2007

- L Sevgi, F Akleman, LB Felsen, "Visualizations of wave dynamics in a wedge waveguide with non-penetrable boundaries: Normal-, adiabatic-, and intrinsic-mode representations", IEEE Antennas and Propagation Magazine 49 (3): 76-94, 2007.
- S. Özyurt, O. Kucur and İ. Altunbaş, "Error performance of rotated phase shift keying modulation over fading channels", Wireless Personal Communications, vol. 43, pp. 1453-1463, December 2007.
- İ. Altunbaş, "Performance of serially concatenated coding schemes for MIMO systems", AEU - Int. Journal of Electronics and Communications, 61, (1), 1-9, 2007.
- K.Aksoy, Ü.Aygözü, "Super-orthogonal space-time-frequency trellis coded OFDM", IEE Proceeding I: Communications, 1, (3), 317-324, 2007.
- M.E.Çelebi, S.Şahin, Ü.Aygözü, "Full rate full diversity space time block codes for more than two transmit antennas ", IEEE Transactions on Wireless Communications, 6, (1), 16-19, 2007.
- M.N. Kurnaz, Z. Dokur, T. Ölmez, "An incremental neural network for tissue segmentation in ultrasound images", Computer Methods and Programs in Biomedicine, 85, (3), 187-195, 2007.
- T.Günel, "A genetic approach to the synthesis of composite right/left-handed transmission line impedance matching sections", AEU (International Journal of Electron. Commun.), 61, 459-462, 2007.

SCI, SCI-E, EI Publications, 2007

- Alper DURUK, Ece Olcay GUNES, Hakan Kuntman, "A new low voltage CMOS differential OTRA for sub-micron technologies", International Journal of Electronics and Communications (AEU), 61, (5), 291-299, 2007
- Simsek S, Isik C, Tezel NS, Akaya I, "Expressions of radiation field and input resonance resistance of coaxial and microstrip line fed rectangular microstrip antennas", Microwave and Optical Technology Letters, 49, (4), 817-822, 2007
- A.Uygur, H. Kuntman, 'Seventh order elliptic video filter with 0.1dB pass band ripple employed CMOS CDTAs', AEU: International Journal of Electronics and Communications, 61, 320-328, 2007.
- M.E. Yalcin and S. Ozoguz, "n-scroll chaotic attractors from a first-order time-delay differential equation," Chaos: An Interdisciplinary Journal of Nonlinear Science, vol. 17, no. 3, 033112, 2007.
- S. Ergün, S. Özoğuz, "A Truly Random Number Generator Based On A Nonautonomous Chaotic Oscillator for Applications in Cryptography" International Journal of Electronics and Communications (AEU), 61 (4): 235-242 2007.
- H. Uğur Uyanık, Nil Tarım, "Compact low voltage high-Q CMOS active inductor suitable for RF applications", Analog Integrated Circuits and Signal Processing, 51, (3), 191-194, 2007.
- A. Toker and A. Zeki, 'Tunable active network synthesis using ICCIIs', International Journal of Electronics, 94, (4), 335-351, 2007.

SCI, SCI-E, EI Publications, 2007

- M Çayören, I Akduman, A Yapar, L Crocco, "A new algorithm for the shape reconstruction of perfectly conducting objects", Inverse Problems 23 (3): 1087-1100, 2007.
- Y Altuncu, A Yapar, I Akduman, "Buried object approach for solving scattering problems related to rough surfaces", Canadian Journal Of Physics, 85 (1): 39-55, 2007.
- O Ozdemir, I Akduman, A Yapar, et al., "Higher order inhomogeneous impedance boundary conditions for perfectly conducting objects", IEEE Transactions on Geoscience and Remote Sensing, 45 (5): 1291-1297, 2007.
- Y Altuncu, I Akduman, A Yapar, "Detecting and locating dielectric objects buried under a rough interface", IEEE Transactions on Geoscience and Remote Sensing 4 (2): 251-255, 2007.
- Y Altuncu, A Yapar, I Akduman, "Numerical computation of the Green's function of a layered media with rough interfaces", Microwave And Optical Technology Letters, 49 (5): 1204-1209, 2007.
- S Baykut, T Akgul, S Ergintav, "Estimation of spectral exponent parameter of 1/f process in additive white background noise", EURASIP Journal on Advances in Signal Processing , Art. No. 63219, 2007

SCI, SCI-E, EI Publications, 2007

- A. Zeki and A. Toker, 'Tunable linear CMOS current mirror', *Analog Integrated Circuits and Signal Processing*, 50, (3), 261-269, 2007.
- Yalcin M. E., "Multi-scroll and Hypercubeattractors from a general Jerk circuit using Josephson junctions," *Chaos, Solitons and Fractals*, 34, (5), 1659-1666, 2007.
- S. Kent, M.Kartal, 'Dielectric Absorber Design for Wide Band - Wide Oblique Incidence Angle Using Genetic Algorithm', *AEÜ (International Journal of Electron. Commun.)*, 61 398-404, 2007
- GB Kaplan, NS Sengor, H Gurvit, et al., "Modelling the Stroop effect: A connectionist approach", *Neurocomputing* 70 (7-9): 1414-1423, 2007.
- Necmi Serkan Tezel, 'Electromagnetic scattering from high order inhomogeneous impedance cylinder of arbitrary shape by using physical optics', *John Wiley, Microwave and Optical Technology Letters* Volume 49, Issue 5, 1031-1036, 2007.
- Necmi Serkan Tezel, 'Electromagnetic scattering from cylinder with generalized impedance boundary condition', *John Wiley, Microwave and Optical Technology Letters* Volume 49, Issue 12, 3090-3093, 2007.
- N.G. Kasapoglu and O.K. Ersoy, "Border vector detection and adaptation for classification of multispectral and hyperspectral remote sensing images," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 45, no.12, pp. 3880-3893, Dec. 2007.

SCI, SCI-E, EI Publications, 2007

- C. Cavdar, A. Gencata, B. Mukherjee, "CATZ: Time-zone-aware Bandwidth Allocation in Layer 1 VPNs" IEEE Communications Magazine, Vol.45 , No.4 , April 2007.
- Kantarci B., S. Oktug, T. Atmaca, "Performance of OBS Techniques under Self-Similar Traffic Based on Various Burst Assembly Techniques ", Computer Communications (Elsevier), Vol.30, Iss.2, pp. 315-325, Jan.2007.
- A. Capar, B.Kurt, M.Gokmen, "Affine-Invariant Gradient Based Shape Descriptor", Machine Vision Applications, 2007. (to be published)

SCI, SCI-E, EI Publications, 2007

- Necmi Serkan Tezel, Serkan Şimşek, "Neural Network Approach to Shape Reconstruction of a Conducting Cylinder", Istanbul University Journal of Electrical & Electronics Engineering, Volume 7, Number 1, pp. 299-304, 2007.
- F. Akleman, L. Sevgi, "A Novel MoM- and SSPE-based Groundwave Propagation Field Strength Prediction Simulator.", IEEE AP Magazine, 49(5):69-82, 2007.
- K. Buyukatak, O. N. Uçan, E. Göse, O. Osman, S. Kent "Adaptive Wiener-Turbo System and Adaptive Wiener-Turbo Systems with Jpeg&Bit Plane Compressions, Journal of Electrical&Electronics, Vol.7, (1) 257-276, 2007.

SCI, SCI-E, EI Publications, 2007

- Ö Usta, M H Musa, M Bayrak and MA Redfern, " A New Relaying Algorithm to Detect Loss of Excitation of Synchronous Generators", Turkish Journal of Electrical Engineering and Computer Sciences, Vol.15, No.2, pp.339-349, 2007.
- Ayşen Demirören, H.Lale Zeynelgil, GA Application to Optimization of AGC in Three-area Power System After Deregulation, International Journal of Electrical Power and Energy Systems, Vol. 29, No.3, March 2007
- Hasdemir, İ.T., Kurtulan, S., Gören, L., "An implementation methodology for supervisory control theory", International Journal of Advanced Manufacturing Technology, 2007
- Ozkol, I., Komurgoz, G. and Arikoglu, A. Entropy Generation in the Laminar Natural Convection from a Constant Temperature Vertical Plate in an Infinite Fluid, Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy, 2007.
- Ozgur Kaymakci, Salman Kurtulan A Performance Evaluation Algorithm for Discrete Event Systems Under Blocking, WSEAS Transactions on Systems, Issue 9, Volume 6, September 2007 page 1259.
- M T Söylemez and İ Üstoğlu (2007,8), "Polynomial Control Systems [product review]", IEEE Control Systems Magazine, 27(4), pp 124

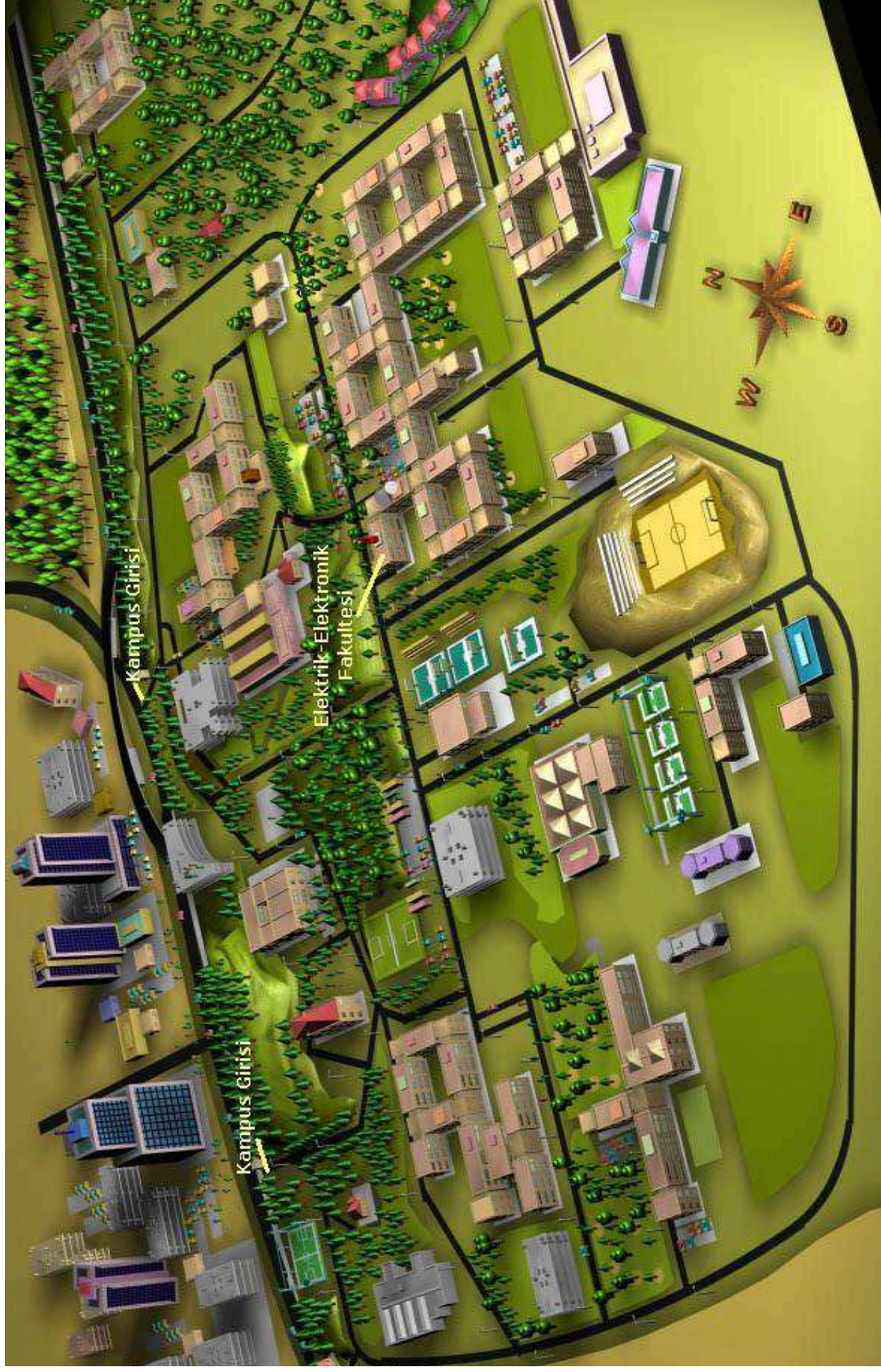
Promoting Innovation among Students

□ Project contest:

Projects by teamwork are evaluated based on

- Originality
- Content and Completeness
- Modern Technology use
- Usability
- Presentation

Campus Map



□ Faculty of Electrical and Electronics
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□ <http://www.ee.itu.edu.tr/>
