

Faculty

Computer Engineering / Electronic System / Optoelectronics and Semiconductors / Staff			
<u>Hsing-Lung Chen</u>	Professor	Ph.D., Illinois Institute of Technology, U.S.A	GPU programming, Big Data, SOPC-based Design for Embedded Systems, Wireless Sensor Networks, Mobile Ad hoc Networks, Multi-core Programming, Distributed Systems.
<u>Ming-Bo Lin</u>	Professor	Ph.D., University of Maryland at College Park, U.S.A.	Embedded systems design, Digital Systems Design, ASIC/FPGA Systems Design, SoC platform IP designs, Mixed-Signal IC Design, Digital Integrated Circuit Designs, Parallel Architectures and Algorithms
<u>Shanq-Jang Ruan</u>	Distinguished Professor	Ph.D., Dept. EE, National Taiwan University	Embedded Deep Neural Network Processing, Energy-Efficient Image Processing, Low power EDA/VLSI, Embedded Systems Design
<u>Wei-Mei Chen</u>	Professor	Ph.D. in Computer Science and Information Engineering, National Taiwan University	Performance Optimization for Multi-Core Systems, Dynamic Memory Management, Parallel Computing, GPU Computing, Cloud Computing
<u>Jenq-Shiou Leu</u>	Professor	Ph.D., National Tsing Hua University	Mobile Service and Platform Design, Application Development of Computational intelligence, Green and Orange Technology Integration, Distributed Computing(fog/Cloud Computing)
<u>Chin-Hsien Wu</u>	Professor	Ph.D. of National Taiwan University	Embedded Software, Embedded System Design, (Non-Volatile) Memory Systems, Big Data, Cloud Computing, Machine Learning for Systems and Applications
<u>Yie-Tarnq Chen</u>	Professor	Ph.D.degree in Electrical Engineering, Purdue University, U.S.A.	Perception subsystems in self-driving cars, Deep neural networks, Machine learning, Computer vision, Artificial intelligence
<u>Nian-Feng Tzeng</u>	Honorary Chair Professor	Ph.D., University of Illinois at Urbana-Champaign, Computer Science.	Computer Communications and Networks、 Grid and Peer-to-Peer Computing、 High-Performance Computer Architecture and Systems
<u>Chang Hong Lin</u>	Professor	Ph.D. degree in Electrical Engineering, Princeton University, U.S.A.	Real-time human action analysis, power and thermal-aware VLSI design, distributed smart cameras, service-oriented architecture, next generation computer architecture
<u>Yuan-Hsiang Lin</u>	Professor	Ph.D., National Taiwan University	Embedded System, Biomedical Engineering, Health Care, FPGA System Design and Application, Wearable Device Design, Physiological and Physical Signal Detection based on Image Processing, IoT Applications, Machine Learning
<u>Gerd Ascheid</u>	Honorary Chair Professor	Doctorate (Dr.-Ing.), RWTH Aachen University	Wireless communication algorithms and architectures, machine learning based sensor signal processing, hardware and chip architectures for embedded systems and IoT devices
<u>Chung-An Shen</u>	Associate Professor	Ph.D. in Electrical and Computer Engineering, University of California, Irvine	Algorithm and VLSI architecture design for wireless communication and multimedia systems, Digital circuits design, Embedded systems and MPSOC systems design for IOT applications.
<u>ChingShun Lin</u>	Assistant Professor	PhD degree in Electrical Engineering, University of Southern California	'Audio-visual processing by deep learning, 'multimedia system development, including image and video signal processing, 'image retrieval using graph modeling, ' modeling of augmented reality and immersive system, ' multichannel audio rendering and visualization, ' virtual

			acoustics for high-definition audio delivery, ` room acoustics/ equalization/ calibration, ` adaptive signal processing for application involving hand-free noise-control earphones and microphones, ` biomedical pattern recognition ` soft computing, ` and their consumer electronics applications. ` Please visit my website for more information.
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Adjunct Faculty

<u>Tsung-Hui Chang</u>	Adjunct Professor	Ph.D., Institute of Communications Engineering, National Tsing Hua University, Taiwan	Signal processing for Wireless communication systems, wireless networks and smart grid systems, convex optimization methods and its applications
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Communication & Signal Processing

<u>Wen-Hsien Fang</u>	Professor ;Chair of Taiwan Architecture & Building Center - Intelligent Building Research Cente	Ph.D., University of Michigan, Ann Arbor, U.S.A.	Image and Video Signal Processing, Machine Learning, Statistical Signal Processing, Array Processing, Wireless Communications
<u>Ray-Guang Cheng</u>	Distinguished Professor	Ph.D., National Chiao-Tung University	5G New Radio Protocol Technology, Internet-of-Thing (IoT) Transmission Technology (NB-IoT, LoRa), IoT Platform Technology (Thingworx),
<u>Ding-Bing Lin</u>	Professor	Ph.D., Dept. EE, National Taiwan University	EM design for high-speed digital system, Antenna design, Microwave Engineering, Radio propagation, Wireless communication
<u>Chao-Hsiung Tseng</u>	Professor	PhD., Communication Engineering, National Taiwan University	RF Biomedical sensor and its signal processing, Noncontact vital-sign radar sensor, microwave circuits and modules
<u>Chun-Long Wang</u>	Professor	Ph. D, Institute of Communication Engineering, National Taiwan University.	Transition circuit design, interconnection circuit design
<u>Kuen-Tsair Lay</u>	Associate Professor	Ph.D., Northwestern University, U.S.A.	Digital Image Processing, Digital Communication Techniques and Systems, Applications of Wavelets
<u>Giuseppe Bianchi</u>	Honorary Chair Professor	Doctor, Univ. Roma Tor Vergata	Networking, wireless networks, network security
<u>Yi-Ru Lin</u>	Associate Professor	Ph.D., National Taiwan University	Magnetic resonance imaging, medical signal and image processing
<u>Shih-Chun Lin</u>	Associate Professor	PHD, National Taiwan University	Wireless multi-node multi-hop communications for 5G, IoT Security and signal Processing for smart grid

<u>Arun K. Somani</u>	Honorary Chair Professor	PhD, McGill University, Montreal, Canada	
<u>Huan-Chun Wang</u>	Assistant Professor	Ph.D., National Chung Cheng Normal University	IoT communication IC design、 communication transceiver, communication embedded systems , 5G mobile communication
<u>Bart ter Haar Romeny</u>	Honorary Chair Professor	MSc degree in Applied Physics at Delft University of Technology, PhD at Utrecht University in 1983	medical image analysis
<u>CHIN-YA HUANG</u>	Assistant Professor	Ph.D., University of Wisconsin Madison, USA	5G、 IoT、 Security、 SDN/DFV、 Machine Learning
<u>Ruei-Tang Wang</u>	Project Assistant Professor	Ph.D. degree in Computer Science and Engineering, National Chiao Tung University	IoT Application business model, design and implementation, Service Architecture and Security, System Architecture, Network Protocol, Area of interest
VLSI & Power Electronics			
<u>Huang-Jen Chiu</u>	Distinguished Professor ; Dean, Office of Industry- Academia Collaboration	Ph.D., National Taiwan University of Science and Technology	Power Electronics
<u>Simon-Min Sze</u>	Honorary Chair Professor	Ph.D., Dept. EE, Stanford University, U.S.A.	
<u>Bing Sheu</u>	Honorary Chair Professor	Ph.D. in Electrical Engineering, University of California, Berkeley, 1985	
<u>Rong-Jong Wai</u>	Distinguished Professor ; Dean of General Affairs	Dept. Electronic Engineering, Chung Yuan Christian University	Servo motor drives, Control theory applications, Power electronics, Mechatronics, Energy technology
<u>Poki Chen</u>	Professor ; Dean, College of Applied Sciences	Ph.D., National Taiwan University	Mixed-mode IC Design / Layout & FPGA Analog Application, including smart temperature sensor, PLL, DLL, ADC, DAC, duty cycle corrector, time-to-digital converter, digital-to-time converter and DPWM.
<u>Randall Geiger</u>	Honorary Chair Professor	PhD, Colorado State University	analog and mixed-signal VLSI design, ADC/DAC design and test, IC layout optimization and yield enhancement
<u>Adrian Ioinovici</u>	Honorary Chair Professor	Doctor, Electrical Engineering, Polytechnical Inst. of Iasi, Romania	Energy Conversion Power Electronics
<u>Yung-Hui Chung</u>	Associate	PhD., Electronics Engineering, National	Analog/Mixed-signal IC Design, Data Conversion Circuits, Digital Calibration Circuits, Biomedical Analog

Professor Chiao-Tung University Front-End Circuits, Phase-Locked Loops

<u>Jing-Yuan Lin</u>	Associate Professor		
<u>Peter J. Huang</u>	Assistant Professor	Ph.D., Northeastern University, MA, USA	Power electronics, Design, modeling, and control of DC-DC converters, Solar photovoltaic applications, High power density DC-DC converters, Switched-capacitor converters and inverters, Analog circuits, High frequency power conversion, Energy harvesting

Microwave & High-Frequency Integrate Circuits

Adjunct Faculty

<u>Tsia, Duei</u>	Adjunct Professor	Ph.D., National Taiwan University	
<u>Jiun-Yu Wen</u>	Adjunct Assistant Professor	Ph.D., National Taiwan University of Science and Technology	
<u>Kelly Bai</u>	Adjunct Associate Professor	M.S., Dept. EE, Massachusetts Institute of Technology, U.S.A.	

Electronic System / Computer Engineering / Optoelectronics and Semiconductors / Staff

<u>Ian H. White</u>	Honorary Chair Professor	1977-1983 University of Cambridge, M.A., Ph.D. Field of Study Engineering 1970-1977 Belfast Royal Ac	Photonics; Optical communications; Lasers; Systems, technology, and devices for optical telecommunications
<u>Sheng-Lyang Jang</u>	Distinguished Professor	Ph.D., University of Florida, U.S.A.	Wireless Radio Frequency Integrated Circuits and Analog IC Design and Technology、 Deep Submicron MOSFET Devices and Technology、 Semiconductor Theory、 Optoelectronic Devices、 Thin-film Transistors
<u>Chin-Lon Lin</u>	Honorary Chair Professor	Ph.D., University of California, Berkeley	Optical fiber communication, Lightwave Technologies and Optical Communications Systems, Photonics Systems for Broadband Information Networks, Broadband Access Networks (FTTP, HFC, PON, et.), Photonic Sensors for Biomedical Applications
<u>San-Liang Lee</u>	Distinguished Professor	Ph.D., University of California Santa Barbara, U.S.A.	Semiconductor Optoelectronics, Fiber Optic Networks, Integrated Optics
<u>Shien-Kuei Liaw</u>	Distinguished Professor	Doctors, NTUME and NCTUEO	Optical communication (WDM optical communication, optical wireless communication, under water communication), optical sensing (distributed optical sensing, point-to-point optical sensing, FBG fabrication and application), optical fiber module (fiber amplifier, fiber laser), optical measurement (reliable testing, stable testing), Patent and IPR
<u>Miin-Horng Juang</u>	Distinguished	EE Ph.D., National Chiao-Tung University	Flat-panel display technology, ULSI device and technology, nano device and technology, solar cell, power

Professor semiconductor device

<u>Allen Jong-Woei Whang</u>	Professor	Ph.D., Purdue University, U.S.A.	Diffraction Element Optics, Applied Optical Systems Design
<u>Juin J. Liou</u>	Honorary Chair Professor	Ph.D., Dept. EE, University of Florida, U.S.A.	1. Micro/nanoelectronics computer-aided design 2. RF device modeling and simulation 3. electrostatic discharge (ESD) protection design and simulation
<u>Shih-Hsiang Hsu</u>	Professor	University of Maryland, Baltimore	(1) Silicon Photonics [Optoelectronics Integrated Circuit, Fiber Optic Communication, LiDAR (Light Detection and Ranging), Fiber Sensor, Microwave Photonics]; (2) Biomedical Sensor [Biosensor, OCT (Optical Coherence Tomography)]; (3) Semiconductor Processing
<u>Chih-Chien Lee</u>	Professor	Ph.D. Stevens Institute of Technology, USA	Organic Solar Cell, Organic Light-Emitting Device, Organic Solar Cell Device Modeling, OLED Device Modeling
<u>Pinghui Sophia Yeh</u>	Associate Professor	Ph.D., University of Maryland, College Park, Maryland	Semiconductor Lasers and LED, Crystal Fiber Light Sources and Amplifiers, Bio-Medical Photonics, Optical Communications.
<u>Pao-hung Lin</u>	Associate Professor	Ph.D in Physics, University of Chicago, U.S.A.	Lab for Bacterially Induced Crystallization
<u>H-H Chou</u>	Associate Professor	PhD in Photonics Engineering, University of Cambridge, U.K.	Photonics Switching Technologies, Optical Wireless and Microwave Communications
	Assistant Professor	Ph.D., Institute of Electro-Optical Engineering, National Chiao-Tung University	Optical Communication
<u>Zheng-Xian Lin</u>	Project Professor		
Associate Faculty			
<u>Yong-Chie Heng</u>	Professor	Ph.D., Wireless Communications, Univ. of Wales-Swansea, UK	VHF, UHF, Microwave communications 2G, 3G, IMT-LTE, WiMAX communications
<u>Bohr-Ran Huang</u>	Distinguished Professor Dean of Graduate Institute of Electro-Optical Engineering	Ph.D. Electrical Engineering, Michigan State University	Optoelectronic materials and devices Nano-materials and Nano-devices, Bio-photonics applications, Solar cell applications
<u>Chen-Wen Tarn</u>	Professor	Ph.D., Electrical Engineering, Syracuse University	Optical Communications, Optical Engineering, Diffraction Optics
<u>Ching-Lin Fan</u>	Professor	Ph.D of NCTU	1. α -Si and LTPS TFT 2. Organic TFT 3. TFT-LCD and TFT-OLED process integration and pixel design
<u>Liang -Chiun Chao</u>	Professor	Ph.D University of Maryland	Low dimensional semiconductor nanostructure, Ion Beam Technology and Applications, Optoelectronic Devices
<u>Kuei-Yi Lee</u>		Ph.D. Osaka University,	Photoelectric and Semiconductor Materials, Nano

Professor Japan Materials, Two-dimensional Semiconductor, Energy Functional Materials, Dye Sensitized Solar Cell, Electrochemical Biosensing

<u>Su, Jung-Chieh</u>	Associate Professor	PhD. University of Southern California	Micro-optics,diffractive optics,solar cell,white light LED, microbial fuel cell
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<u>Hung-Shing, Chen</u>	Associate Professor	Chiba University (Japan)	color management system, color gamut mapping, preferred color image processing, color system design for new display device, image comfort and image safety
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Adjunct Faculty

<u>Shu-Li Wang</u>	Adjunct Professor	Ph.D., Dept. Education, National Taiwan Normal University	
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Electronic System / Computer Engineering / Optoelectronics and Semiconductors / Staff

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