

NTU Supervisors & Projects

Electrical and Electronic Engineering

Supervisor	Email Contact	Research areas of potential PhD studies
Ali Maswood	eamaswood@ntu.edu.sg	Power electronics, renewable and clean energy
Choi San Shing	esschoi@ntu.edu.sg	Power systems, renewable and clean energy
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So Ping Lam	eplso@ntu.edu.sg	Power systems, power line communication, renewable and clean energy
Tseng King Jet	ekjtseng@ntu.edu.sg	Power electronics, machines and drives, renewable and clean energy
Wang Peng	epwang@ntu.edu.sg	Power markets, renewable and clean energy
Wang Youyi	eyywang@ntu.edu.sg	Power systems, control engineering renewable and clean energy
Zhang Daming	edmzhang@ntu.edu.sg	Magnetics, computational electro-magnetics, condition monitoring
Boon Chirn Chye	eccboon@ntu.edu.sg	Advanced Hand-phone design, Next generation RFIC Design, Embeddable Biomedical IC Design, Human Body Sensor Network RFIC Design and Analog/Mixed Signal Design.
Chan Pak Kwong	epkchan@ntu.edu.sg	Sensor Interface ICs, Data Converters, Ultra Low-Power Analog/Mixed-Signal Circuits.
Chang Chip Hong	echchang@ntu.edu.sg	Computer arithmetic, Digital signal processing, VLSI IP watermarking, Residue Number Systems
Do Manh Anh	emado@ntu.edu.sg	RFIC Design, mixed signal IC design
Goh Wang Ling	ewlgoh@ntu.edu.sg	High Speed, Low Power Digital Circuit Design
Gwee Bah Hwee	ebhgwee@ntu.edu.sg	Asynchronous low power integrated circuit (IC), digital class-D amplifier IC, soft-computing search and optimization algorithms
Jong Ching Chuen	eccjong@ntu.edu.sg	VLSI system design, High-level Synthesis
See Kye Yak	ekysee@ntu.edu.sg	Electromagnetic compatibility, high-speed signal integrity, electromagnetic interference and computational electromagnetic. More details: http://www3.ntu.edu.sg/eee/emerl/
Tan Cher Ming	ecmtan@ntu.edu.sg	Electronic Reliability and Nanotechnology
Yeo Kiat Seng	eksyeo@ntu.edu.sg	Device characterization and modeling; low-voltage low-power IC design; RFIC design
Zhang Yue Ping	Eypzhang@ntu.edu.sg	Millimeter-wave radio electronics
Zhu Ce	ECZhu@ntu.edu.sg	Multimedia signal processing, especially image and video coding, communications and processing
Tan Yap Peng	EYPTan@ntu.edu.sg	Image and video processing, content-based analysis, multimedia compression, mobile media,

Updated in October 2008

		sentient computing, computer vision, and pattern recognition
Alex C Kot	EACKOT@ntu.edu.sg	Signal Processing for Communication, Information Security, Biometrics, Data Hiding and Image Forensics
Yap Kim Hui	EKHYap@ntu.edu.sg	Image and video processing, media indexing and retrieval, content analysis and understanding, computational intelligence, and pattern recognition
Farook Sattar	efsattar@ntu.edu.sg	Signal and image processing with special interests in speech/audio segmentation/classification, blind source separation, source localization, etc.
Olga Sourina	EOSourina@ntu.edu.sg	Visual data mining, geometric modelling, computer graphics, virtual reality, visual and haptic interfaces, and biomedical engineering.
Chau Lap Pui	elpchau@ntu.edu.sg	Interactive & Digital Media
Jiang Xudong	EXDJiang@ntu.edu.sg	Linear and nonlinear image enhancement and feature extraction, statistical pattern modeling, classification and machine vision, fingerprint and face recognition and multimodal biometric decision fusion.
Gan Woon Seng	EWSGAN@ntu.edu.sg	Audio and acoustics processing, real-time embedded processing and active noise control
Anamitra Makur	EAMakur@ntu.edu.sg	Multirate signal processing and filterbanks, signal/image/video compression, image and video processing
Chen Lihui	ELHCHEN@ntu.edu.sg	Data/Web Mining, Machine Learning Algorithms & Applications, Information Retrieval and Web Intelligence
Tan Hee Beng Kuan	ibktan@ntu.edu.sg	Software Engineering
Lin Zhiping	ezplin@ntu.edu.sg	Multidimensional and image processing, Adaptive and array signal processing, Biomedical signal processing
Bi Guoan	egbi@ntu.edu.sg	Time frequency signal analysis and applications, signal processing for communications, cognitive networks
Chan Kap Luk	eklchan@ntu.edu.sg	Image analysis and computer vision, Machine Learning, Information Retrieval, Human Computer Interaction, Biomedical Image Analysis.
Foo Say Wei	eswfoo@ntu.edu.sg	Speech Signal Processing, Audio Signal Processing, Image Restoration.
M Y Siyal	eyakoob@ntu.edu.sg	Medical Image processing, Computer vision, water marking, biometric-based e-security, image and video processing
Ma Kai-Kuang	ekkma@ntu.edu.sg	Digital Image/Video Coding and Processing (especially, denoising, super-resolution, segmentation), Scene Analysis and Recognition
Quah Tong Seng	itsquah@ntu.edu.sg	Intelligent Systems
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Updated in October 2008

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Lim Yong Ching	EYCLim@ntu.edu.sg	Digital signal processing VLSI circuits and systems design
Saman Abeysekera	Esabeysekera@ntu.edu.sg	Underwater Acoustic Communications & Signal Processing, Efficient Frequency Estimation techniques, Applications of time-frequency signal analysis in bio-medicine and audio processing, Synchronization aspects in Digital Communications, Sigma Delta Modulators and FPGA Implementations
Chan Chee Keong	ECKCHAN@ntu.edu.sg	Evolutionary Algorithms, Data Mining and Game Programming
Chan Choong Wah	ECWCHAN@ntu.edu.sg	Digital Right Protection, Elliptic Curve Cryptography, Steganography, Information Hiding, Digital Forensic
Falkowski Bogdan	EFALKOWSKI@ntu.edu.sg	Electronic Design Automation Tools and Systems for Digital Logic Design and Optimization Spectral and Discrete Representations of Multiple-Valued and Binary Functions Digital Signal and Image Processing Algorithms and Implementations as LUTs, ASICs and FPGAs Biomedical Imaging Compression and Watermarking
Ng Boon Poh	EBPNG@ntu.edu.sg	Array synthesis, Adaptive array processing, Spectral estimation, Digital signal processing in general
Wang Lipo	ELPWang@ntu.edu.sg	Computational intelligence, with applications to multimedia, data mining, bioinformatics and optimization
Andy Khong W H	AndyKhong@ntu.edu.sg	Acoustic signal processing, Seismic signal processing, Adaptive filtering, Source localization Speech enhancement, Speech dereverberation
Lu Wenmiao	WENMIAO@ntu.edu.sg	Magnetic Resonance Imaging, Image Reconstruction, RF Pulse Design, Parallel Imaging
Pina Marziliano	EPina@ntu.edu.sg	Analysis of EEG for the automatic detection of brain abnormalities in newborns, Liver tumor volume estimation, Compression of ECGs a signal with finite rate of innovations
Wan Chunru	Ecrwan@ntu.edu.sg	Signal processing, Sonar, Communications, Parallel computing, Underwater acoustics, Computational mathematics
Huang Guangbin	egbhuang@ntu.edu.sg	Extreme Learning Machine, Neural Networks
Wang Dan Wei	edwwang@ntu.edu.sg	Mobile Robots, Fault diagnosis and fault Tolerant Control, Satellite Formation Flying Control, Learning Control
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Updated in October 2008

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Updated in October 2008

		and Arrays, Design and Analysis of Various Passive and Active Components at Microwave and Millimeter-Wave Frequencies
Shum Ping	epshum@ntu.edu.sg	Optical Communications
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Soong Boon Hee	ebhsoong@ntu.edu.sg	Research interests in the area of Ad Hoc and Wireless Sensors Networks, Mobility Management, Network Planning and Capacity Optimisation, and Adaptive Video Rate Control
Tan Eng Leong	eeltan@ntu.edu.sg	Microwave Circuits, Antennas and Propagation
Tan Soon Yim	esytan@ntu.edu.sg	Microwave Circuits, Antennas and Propagation
Teh Kah Chan	ekcteh@ntu.edu.sg	Signal Processing for Communications, Performance Analyses for Spread Spectrum Communication, Multi-user Detection, Interference Suppression for UWB
Ting See Ho	eshting@ntu.edu.sg	MIMO Transmission Scheme, OFDM with MIMO Techniques, Future High-speed Wireless Networks
Xiao Gaoxi	egxxiao@ntu.edu.sg	Complex Systems and Networks, Optical and Wireless Networking, Internet Technologies, Network Security
Zhong Wende	ewdzhong@ntu.edu.sg	WDM systems and networks, photonic packet switching
Zhu Lei	ezhul@ntu.edu.sg	Microwave Circuits, Antennas and Propagation
Ang Lay Kee	elkang@ntu.edu.sg	Ultrafast laser excitation of materials, Modeling of THz sources (HEMT and FEL), Current injection into solids (organic materials and solids), Quantum-dissipation model of electron transport, Laser-accelerated electron beam for medical applications
Chen Tupei	echentp@ntu.edu.sg	ULSI technology, nanocrystals and device applications, Si photonics
Ng Beng Koon	ebkng@ntu.edu.sg	Biophotonics imaging techniques for disease diagnosis, physics of avalanche photodetectors and its applications.
Ng Geok Ing	eging@ntu.edu.sg	Compound semiconductor devices and MMICs for high frequency applications
Ngo Quoc Nam, John	eqnngo@ntu.edu.sg	Optical devices (for application in optical communication and optical sensors
Pey Kin Leong	eclpey@ntu.edu.sg	Reliability of Si-based nanodevices and systems, pulsed laser annealing for Si nanoscale devices, novel silicides
POENAR Daniel Puiui	epdpuiui@ntu.edu.sg	<ol style="list-style-type: none"> 1) MEMS, bioMEMS, micromachining & microfluidics; 2) (Bio)chemical sensors and analytical techniques (e.g. spectrometry, electrophoresis, chromatography, etc.); 3) Optical sensors & integrated optics

Updated in October 2008

		(especially for applications in the previously mentioned analytical techniques); 4) Bio-photonics & optofluidics.
Radhakrishnan K	eradha@ntu.edu.sg	Compound semiconductor materials, High-speed device fabrication and characterization, MBE growth of GaN and its alloys.
Rusli	erusli@ntu.edu.sg	Design, fabrication and characterization of silicon nanowire based devices; Si nanostructure solar cells.
Sun Changqing	ecqsun@ntu.edu.sg	Theoretical nanoelectronics and functional materials
Tan Chuan Seng	tancs@ntu.edu.sg	<ul style="list-style-type: none"> • 3-D/Vertical integration of ICs • Si/Ge hetero-structures: epitaxy and devices • High output and reliable silicon solar cells
Tan Ooi Kiang	EOKTAN@ntu.edu.sg	Functional electronics materials, devices, and applications; Chemically-activated nano-structured metal oxide semiconductor and ferroelectrics materials for chemical and bio-sensor devices, photocatalytic coatings, and solid state solar cell devices.
Tang DingYuan	edytang@ntu.edu.sg	Photonics, Laser optics, Ultrafast optics and optoelectronics
Tang Xiaohong	exhtang@ntu.edu.sg	Compound semiconductor nanostructures for photonics and electronics. Compound semiconductors, nanostructures: physics, materials, epitaxy growth and applications; Heterointegration of III-V semiconductors on silicon.
Tay Beng Kang	ebktay@ntu.edu.sg 67904533	<ul style="list-style-type: none"> • Graphene nanostructures for thermal and electronic applications • Carbon Nanotubes for field emission and advanced bioelectrode fabrication • Metallic / oxide nanoclusters for photocatalytic applications • Carbon composites based nanomaterials and devices
Wong Kin Shun Terence	ekswong@ntu.edu.sg	Nanoscale silicon devices, process simulation, organic photovoltaics
Yu Hong Yu	HYYU@ntu.edu.sg	Nano-based Si devices for both “more Moore” (logic & memory) and “more than Moore”

Updated in October 2008

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Zhou Xing	exzhou@ntu.edu.sg	MOS device/circuit modeling and simulation

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