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The School boasts a strong cadre of over 120 full-time faculty members with a broad spectrum of teaching and research expertise educated in renowned universities, including Massachusetts Institute of Technology (MIT), Stanford University, University of Cambridge, and Imperial College London, etc. Complementing the highly cited and internationally recognised faculty, including many fellows of various professional societies, is a pool of extremely talented and competitive young faculty recruited from top institutions worldwide. Our faculty publishes an average of more than 900 journal papers and close to 500 conference papers per year. Over the last 5 years, more than 530 patents have been filed and more than 100 have been granted. Prof. Er Meng Hwa Emeritus Professor/Office: S1-B1A-27Email: Research Interests: Satellite Engineering; Smart Antenna Array Signal Processing; Distributed and Collaborative Signal Processing for Sensor Networks; Deep Learning for Communication Signal Classification; Big Data and AI in Education; Science of Learning and Learning Engineering Prof Gooi Hoo Beng Emeritus Associate Professor/Email: Research Interests: Microgrids, Energy Storage; Renewable Energy; Virtual Power Plants; Peer-to-Peer Energy Trading; Forecast; Scheduling Applications; Network Applications Prof Koh So Ngee Emeritus Professor/Email: Research Interests: Speech and Audio Coding, Speech Enhancement, and Blind Source Separation Assoc Prof Ser Wee Emeritus Associate Professor/Email: Research Interests: Signal Processing; Machine Learning; Medical Devices Prof Chang Chi Hong Professor/Office: Room S2-B2C-97Email: Research Interests: Hardware Security; Residue Number Systems; Low-power; Low-voltage and Fault-tolerant Arithmetic Circuits; Design Automation of VLSI Digital Circuits; Application-specific Digital Signal Processing Algorithm and Architectures Prof Chang, Joseph Sylvester Professor/Office: Room S1-B1B-60Email: Research Interests: Bioengineering; Instrumentation; Otolaryngology; Audiology; Psychocoustics and Acoustics; Analog and Mixed-Signal Circuits and Systems; Power Management; Fully-integrated Converters and for Radio-Frequency Systems; Digital Circuits and Systems; Asynchronous-logic; High-reliability Electronics; Laser and Heavy-ion testing; Space-grade and for Level-4 and -5 Autonomous Systems; Flexible Electronics Prof Cheng Tee Hiang Professor/Office: Room S1-B1C-107Email: Research Interests: Optical Communication and Networking; Mobile Ad Hoc Networks (MANET); Complex Networks; Network Security Prof Hani Volkan Demiri Professor/ School of Physical & Mathematical Sciences (Joint Appointment) Director, LUMINOUS! Center of Excellence for Semiconductor Lighting & Displays (LUMINOUS/O)Office: Room S2-B2C-100Email: Research Interests: Semiconductor; Nanocrystals; Nanophotonics; LEDs Lighting Sensing Prof Gan Woon Seng Professor/Director, Smart Nation Translational Lab/Office: Room S2-B2B-68Email: Research Interests: Active Noise Control for Hearables and Open Window; Spatial Audio Processing; AI for Sound Prof Gao Weibo Professor/Chair, the School of Electrical & Electronic Engineering (EEE) Dieter Schwanz Endowed Professor in Quantum Sovereignty and Resilience (QUASAR) Director, Quantum Science and Engineering Center's (QSec), COE Professor, School of Physical & Mathematical Sciences (Joint Appointment) Office: Room S1-B1A-16Email: Research Interests: Quantum Information Science and Engineering; 2D Materials Photonics and Transport Prof Lalit Kumar Goel Professor/Director, Renaissance Engineering Programme Director, India Connect/Office: Room ABN-B2B-11EEmail: Research Interests: Power System Reliability; Cost/benefit Considerations; Deregulated Power Markets; Renewable Energy; Power System Analysis Prof Guan Yong Liang Professor/Associate Vice President (Infrastructure & Programmes) Co-Director, Continental-NTU Corporate Lab (FOCUS) Office: Room S1-B1C-100Email: Research Interests: Coding and Signal processing for Communication System and Data Storage System; Vehicle-to-Everything (V2X) Communication; Anytime/LDPC/Turbo Coding and Decoding; Multiple-Input-Multiple-Output (MIMO) Coding and Techniques; Channel Modelling; Vehicular and Powerline Communication Channel Prof Hu Guoqiang Professor/Assistant Dean (Research), College of Engineering/Office: Room S1-B1B-56Email: Research Interests: Optimization and Game Theory; AI Algorithms; Robotics and Smart City Applications Prof Erick Lansard Professor (Practice)/Office: Room S1-B1C-81Email: Research Interests: Advanced Space Systems: Design, Technologies, Applications Environmental changes & impact on Society/Innovation Prof Lee Yee Hui Professor/Office: Room S2-B2C-81Email: Research Interests: Antenna Design; Computational Electromagnetics; Electromagnetic Compatibility and Susceptibility; Channel Characterisation; Rain Propagation Prof Ng Gek Ing Professor/Director, Centre for Micro- & Nano-Electronics (CMNE) Office: Room S2-B2B-69Email: Research Interests: Gallium Nitride (GaN) High-Electron-Mobility Transistors (HEMTs) on Silicon Substrate; III-V Compound Semiconductor Devices for High-Frequency and Monolithic Microwave Integrated Circuit (MMIC) Applications Prof Su Rong Professor/Director, Centre for System Intelligence and Efficiency (CSIE)/Office: Room S1-B1B-59Email: Research Interests : Supervisory control; Model-based Diagnosis; Cyber Security Analysis; Simulation; Formation Control; Output Regulation; Sliding Mode Control; Applications in Smart Cities; Smart Manufacturing; Intelligent Transportation; Smart Buildings Prof Tan Chun Seng Professor/Co-Director, the National Centre for Advanced Integrated Photonics Office: Room S2-B2C-85Email: Research Interests: 3D Packaging and Integration; Group-IV Hetero-Epitaxy (Si, Ge, Sn) and Devices Prof Tan Ooi Kiang Professor Deputy Provost (Education) Office: Room ADM-05-05Email: Research Interests: Sensors, Actuators, and Smart Materials; Nanoelectronics and Functional Materials and Devices; Design for Electronics, Bio-medical, Functional Sensor and Actuator Applications Prof Tan Yap Peng Professor/President's Chair in Electrical and Electronic Engineering/Office: Room S1-B1B-48Email: Research Interests: Image and Video Processing; Multimedia Computing; Computer Vision; Pattern Recognition; Machine Learning; Data Analytics Prof Tay Beng Kang Professor/Deputy Director, CNRS-International-NTU-Thales Research Alliance (CINTRAL)/Office: Room S1-B1A-22Email: Research Interests: Preparation and characterization of water-scaled 2D materials and their heterostructures; Application of 2D materials for tunneling diodes, ternary logic and thermoelectric devices; Development of Filtered Cathodic Vacuum Arc technologies; Applications of diamond-like carbon/nanocomposites for wear resistive coatings; Low temperature transfer of carbon nanotubes for high frequency applications (such as EM isolation, passive devices, buffer matrix, etc). Prof Tay Wee Peng Professor Associate Chair (Faculty) Office: Room S1-B1A-01Email: Research Interests: Signal and Information Processing over Networks; Inference and Statistical Privacy for Networks; Machine Learning; Distributed Inference and Learning; Detection, Estimation and Optimization Prof Teo Hang Tong Edwin Professor/Professor, School of Materials Science & Engineering (Joint Appointment) Director, Temasek Laboratories @ NTU/Office: Room RTP-BX-09Email: Research Interests: Nano-Composites and Hybrid Materials; BN Nanostructured Materials including 1D Nanotubes, 2D h-BN, 3D h-BN Foams and Thin Films; Re-ordering of Chaotic Materials; Phase-Change Materials; Thermal Interface Materials; Thermal Management through Top-down and Bottom-up Approach; Space Materials; Bio-Materials Prof Tjin Swee Chuan Professor President's Chair in Photonics Associate Provost (Continuing Education), President's Office/Chief Executive, PaCE/Chairman, LU Photonics Consortium Co-Director, The Photonics Institute (TPI)/Office: Room ADM-05-03AEmail: Research Interests: Fibre Optic Sensors; Biomedical Engineering and Biophotonics Prof Wang Dan Wei Professor/Office: Room S2-B2C-96Email: Research Interests: Iterative Learning Control; Repetitive Control; Manipulator/Mobile Robot Dynamics, Path Planning, and control; Model-based Fault Diagnosis and Identification as well as Prognosis; Satellite Formation Flying Prof Wang Qijie Professor/Professor, School of Physical & Mathematical Sciences (Joint Appointment) Associate Dean (Graduate Studies) College of Engineering/Office: Room N1-3-B1-08Email: Research Interests: Photonics and Nanophotonics; Semiconductors; Optoelectronics; Laser Science and Engineering; and Mid-infrared and Terahertz Photonics and Optoelectronics Prof Wei Lei Professor/Associate Chair (Research) Director of Centre for Optical Fibre Technology (COFT)/Office: Room S1-B1A-03Email: Research Interests: Fiber-Based Optoelectronic Devices; Fiber-shaped Wearable Electronics; Multi-functional Fibers; Bio-fiber Interfaces; In-fiber Energy Generation and Storage Prof Wen Changyue Professor/Office: Room S2-B2B-45Email: Research Interests: Adaptive Control; Switching and Impulsive Systems; Iterative Learning Control; Cyber-physical Systems; Renewable Energy and Smart Grids; Intelligent Systems; Complex Systems and Networks Prof Xie Lihua Professor/Director for Centre for Advanced Robotics Technology Innovation (CARTIN)/Office: Room S2-B2C-94Email: Research Interests: Robust Control and Estimation Theory; Networked Control; Cooperative Control; Sensor Networks; Energy Efficient Buildings; Unmanned Systems Prof Zhang Qing Professor/Office: Room S2.2-B2-14Email: Research Interests: Physical Properties and Electronic and Optoelectronic Applications of Carbon Nanotubes; Diamond-Like Carbon Films; CVD Diamond; Graphene and several other Nanostructures Prof Zheng Yuanjin Professor Director, Centre for Integrated Circuits and Systems (CICS)/Office: Room S2.2-B2-46Email: Research Interests: GHz RFIC and SoC design, SAW, MEMS, Acoustics; Bio-IC System and Circuits, Biomedical Imaging; Radar and UWB Communication System and Circuits; Adaptive Signal and Image Processing Algorithm and ASIC Assoc Prof Ang Ding Sheng Associate Professor/Office: Room S2-B2C-95Email: Research Interests: Reliability Physics and Characterization of Nanoscale Transistors; Nano-Characterization Techniques; Characterization of Novel Devices Assoc Prof Arokiaswami Alphones Associate Professor/Office: Room S2-B2A-29Email: Research Interests: Electro-magnetic Analysis on Planar RF circuits and Integrated Optics; Metamaterials; Periodic Structures; Microwave Photonics; Wireless Power Transfer using Metamaterials Assoc Prof Boom Chirn Chee Associate Professor/Office: Room S2-B2B-66Email: Research Interests: RF/mm/THz Integrated circuits Design & Testing; GaN/CMOS Design & Testing; V2X/WiFi/Imaging/Drone/Design & Testing Assoc Prof Chan Chok You, John Associate Professor/Office: Room S1-B1B-55Email: Research Interests: Discrete Sliding Mode Control; Nonlinear Control of DC-DC Power for DC-DC Converters; Analysis and Control of Switching Power Converters Assoc Prof Chan Pak Kwong Associate Professor/Office: Room S1-B1B-45Email: Research Interests: Mixed-Mode Circuits and Systems; Precision Analog Circuit Design; Integrated Circuit Analysis; Circuit Theory & Applications; Sensor Circuits & Systems; Sensor Interface ICs for Biomedical, Chemical, Environmental; Nanotechnology based Sensors; Power Management ICs for Integrated Sensors and System-on-Chip Assoc Prof Chang Wonkeun Associate Professor/Office: Room S2-B2B-51Email: Research Interests: Ultrafast Light-Matter Interactions; Light Source Development in Mid-Infrared and Vacuum-Ultraviolet; Ultrashort Pulse Generation; Complex Dynamics in Pulsed Laser Systems Assoc Prof Chen Lihui Associate Professor/Office: Room S1-B1C-96Email: Research Interests: Machine Learning; Algorithms/Soft Computing (Fuzzy Logic and Neural Networks) with Applications to Data Mining; Web Intelligence; Image Processing; Pattern Recognition Assoc Prof Chen Tuipei Associate Professor/Office: Room S1-B1B-44Email: Research Interests: Nanoscale CMOS devices; ULSI technology; Semiconductor and Metal Nanocrystals/Nanoparticles; Nanoelectronic and Photonic devices; Memory-based Computing Assoc Prof Yu-Cheng, Chen Associate Professor/Office: Room S1-B1A-26Email: Research Interests: Optofluidics; Bio-lasers; Micro-resonators; Biophotonics; Biomedical Imaging and Biosensing; Medical Devices; Cellular and Tissue Diagnosis; Nanophotonics; Plasmonics; Nanolasers; Neurophotonics; Neural-engineering; Novel On-chip Laser Devices; Bio-Intelligent; Bio-Integrated Optical Devices/Robotics Assoc Prof (Steve) Cuong Dang Associate Professor/Director, Centre for OptoElectronics and Biophotonics (COEB)/Office: Room S1-B1C-79Email: Research Interests: OptoElectronic Devices; Nano-Photonics; LEDs; Lasers; Quantum Emitters; Nano-Materials Assoc Prof Fan Wajun Associate Professor/Office: Room S2-B2B-86Email: Research Interests: Semiconductor Material Growth; Characterization and Device Fabrications; 2D Photonics; Spintronics Assoc Prof Feng Guoan Associate Professor/Office: Room S1-B1C-80Email: Research Interests: Digital Wireless Communications Systems; Powerline Communications; Channel Coding; Spread-spectrum Communications and CDMA; OFDM; MAC Protocol and Radio-Locations Assoc Prof Gwee Hai Hwee Associate Professor Associate Chair (Students) Director, National Integrated Centre for Evaluation (NICE)/Office: Room S1-B1B-42Email: / Research Interests: Asynchronous Circuits; Physical Hardware Attack; Hardware Assurance; Machine Learning; Image Processing; Class-D Amplifiers/DC-DC Converter Assoc Prof Jiang Xudong Associate Professor/Deputy Director, Centre for Information Science and Systems (CISS)/Office: Room S1-B1C-105Email: Research Interests: Pattern Recognition; Computer Vision; Biometrics; Signal and Image Processing; Statistical Pattern Classification; Feature Extraction from Image, Fingerprint Recognition; Human Face Detection and Recognition; Multimodal Biometric Fusion; Visual object Detection and Recognition Assoc Prof Andy Khong Wai Hoong Associate Professor/Director of Students (Innovation & Entrepreneurship) Deputy Associate Provost (Student Life) Co-Director Delta-NTU Corp Lab/Office: Room N1-3-B1-01Email: Research Interests: Microphone Array Signal Processing; Speech Enhancement; Learning Analytics; Machine Learning Algorithms for NLP Applications Assoc Prof Kim Munho Associate Professor/Office: Room S2-B2C-92Email: Research Interests: Development of wide bandgap nanomembranes and its device applications (high power transistors and photodetectors) Flexible/stretchable/wearable electronics and photonics; Silicon/germanium electronics and optoelectronics; Novel nano/micro fabrication processes for future flexible/wearable electronics and photonics; Development of semiconductor heterostructure with wide bandgap materials Assoc Prof Kim Tae Hyung Associate Professor/Deputy Director, Centre for Integrated Circuits and Systems (CICS)/Office: Room S2-B2B-42Email: Research Interests: Low Power and High Performance Digital; Mixed-mode Memory Circuit Design; Ultra-low Voltage Sub-threshold Circuit Design for Energy Efficient Systems; Variation and Aging Tolerant Circuits and Systems; Circuit Techniques for 3D ICs Assoc Prof Law Choi Look Associate Professor/Office: Room S1-B1A-11Email: Research Interests: Digital Beam Forming Array Antenna; Ultra-Wideband Microwave Circuits; Wideband Channel Characterization and Modeling; Radio Frequency Identification; Wireless Networking; Positioning Systems Assoc Prof Christopher H. T. Lee Associate Professor/Assistant Chair (Research) NRF Fellow/Office: Room S2-B2C-101Email: Research Interests: Electric Motors and Drives; Renewable Energies; Electric Vehicles; Electric Aircraft; Robotics; Wind Turbine Assoc Prof Lee Seok Woo Associate Professor/Office: Room S2-B2B-43Email: Research Interests: High Density Material for Lithium-Ion Batteries; Electrochemical Systems for Thermal Energy Harvesting Assoc Prof Leong Wei Lin Associate Professor/Assistant Chair (Academic) Deputy Director Centre for Micro- & Nano-Electronics (CMNE) Cluster Director, Energy Research Institute @ NTU (ERIG)/Office: Room S1-B1C-102Email: Research Interests: Organic and Molecular Electronics; Organic Electrochemical Transistors; ReRAM devices and physics; Interfaces and Surface Science; Printing processes for large-area and flexible electronics Assoc Prof Lim Meng Hui Associate Professor/Office: Room S1-B1B-46Email: Research Interests: Computational Intelligence; Reconfigurable Hardware Systems; Computational Finance; Evolutionary Learning; Memetic Computing Assoc Prof Lin Zhiping Associate Professor/Office: Room S2-B2A-14Email: Research Interests: Multidimensional Systems and Signal Processing; Statistical and Biomedical Signal processing; Artificial Intelligence; Machine Learning Assoc Prof Ling Keek Voon Associate Professor/Office: Room S2-B2A-22Email: Research Interests: Control and Optimisation; Online Laboratories; Embedded Systems; Model Predictive Control; Receding Horizon Estimation; Embedded and High Speed Implementations Assoc Prof Anamitra Makur Associate Professor/Office: Room S1-B1C-103Email: Research Interests: Compressed Sensing; Filterbanks and Multirate Signal Processing; Signal/Image/Video Compression and Processing Assoc Prof Mao Kezhi Associate Professor/Office: Room S2-1-B2-14Email: Research Interests: Machine Learning; Deep Learning for Big Data; Natural Language Processing; Image/Video Processing; Information Fusion; Cognitive Science Assoc Prof Ng Beng Koon Associate Professor/Office: Room S2-B2C-88Email: Research Interests: The Physics of Impact Ionization Process in Semiconductors; the Design and Characterization of Advanced Photodetectors, the Use of Biophotonics Imaging Techniques for Medical Diagnosis Assoc Prof Ng Boon Poh Associate Professor/Office: Room S2-B2A-05Email: Research Interests: Array Synthesis; Adaptive Array Processing; Spectral Estimation; digital signal processing Assoc Prof Hung Dinh Nguyen Associate Professor/Office: Room S2-1-B2-09Email: Research Interests: Complex Systems; Nonlinear Dynamics and Stability; Power System Operation, Control and Optimization; Dynamic Security Assessment/Energy Management System; Smart Grids Assoc Prof Poenar Daniel Puiu Associate Professor/Office: Room S2-B2A-27Email: Research Interests: Sensors & Actuators; MEMS; Si Processing; (Bio)Chemical Sensors; Bio-photonics; Colour Discriminators (e.g. using Triple Junction Structures); Miniaturization of Bio-Analytical Methods (e.g. Spectrometry, Electrophoresis, Chromatography) for (Bio)Chemical Applications, as well as Optical Detection for these Separation methods; Bio-photonics & Opto-fluidics Assoc Prof Soujanya Poria Associate Professor/Office: Room S2-B2B-44Email: Research Interests: Multimodal Artificial Intelligence (Multimodal AI); Natural Language Processing (NLP); Large Language Models; Assoc Prof See Kye Yak Associate Professor/Director, Electromagnetic Effects Research Laboratory (EMERL)/Office: S2-B2C-112Email: Research Interests: Electromagnetic Compatibility; Signal Integrity; Electromagnetic Shielding; Railway Condition Monitoring Assoc Prof Siek Lita Associate Professor/Office: Room S2-B2C-106Email: Research Interests: Analog/Mixed Signal ICs; Low-Voltage Low-Power circuits; Power Management ICs; PLLs and Data Converters Assoc Prof Mohammed Yakoob Siyaf Associate Professor/Office: Room S2-B2A-26Email: Research Interests: Computer Vision; Image Processing; Biometric-based Security; E-Commerce; Watermarking; Computer Architecture; IT Assoc Prof Soong Boon Hee Associate Professor/Office: Room S2-B2C-115Email: Research Interests: Ad Hoc and Wireless Sensors Networks; Mobility Management; Network Planning and Capacity Optimisation; Adaptive Video Rate Control Assoc Prof Tan Eng Loong Associate Professor/Office: Room S2-2-B2-24Email: Research Interests: Computational Electromagnetics/Optics/Acoustics - FDTD, ADI/LD/SS, Fundamental Implicit Schemes; Hybrid Matrix; Scattering Matrix; Multilayered Biotropic Media; Bianisotropic Media; Photonic Crystals; Phononic Crystals; Periodic Structures; RF/Microwave Circuit Design Assoc Prof Tan Soon Yim Associate Professor/Office: Room S1-B1B-44Email: Research Interests: Electromagnetic scattering and diffraction theory, localization methodology and propagation models for wireless communication systems and sensor networks, and non-invasive cancer detection. His current research works focus on non line-of-sight localization methodology for mobile communications and sensor networks, Microwave breast cancer detection and magnetic therapeutic. Assoc Prof Tang Xiaohong Associate Professor/Office: Room S2-B2C-87Email: Research Interests: Compound Semiconductors and Photonic Devices; Metal Organic Vapor Phase Epitaxy; Nanophotonics and Nanoelectronics; Materials, Physics and Devices; Heterogeneous Epitaxy Growth of Compound Semiconductors on Silicon Substrate; Semiconductor Quantum Dot; Nanowire Photonics and Electronics Assoc Prof Tang Yi Associate Professor Deputy Director, Centre for System Intelligence and Efficiency (CSIE)/Office: Room S2-B2A-07Email: Research Interests: Power Electronics; Power Quality; Renewable Energy; Energy Storage; Smart Grid Assoc Prof Teh Kah Chan Associate Professor Associate Chair (Academic) Office: Room S2-B2A-03Email: Research Interests: 5G and Beyond 5G Technology; Deep Learning for Wireless Communication Systems; Signal processing for Communications; Performance Analysis for Wireless Communication Systems; Cognitive Radio and Cooperative Systems; Radar Signal Processing; Cybersecurity Assoc Prof Wang Hong Associate Professor/Director, Nanyang Nano-Fabrication Centre (N2FC)/Office: Room S1-B1C-94Email: Research Interests: Semiconductor Devices and IC Technologies; Microelectronics & Applications; Nanotechnology & Nano-Science Assoc Prof Wang Lip Associate Professor/Office: Room S1-B1C-98Email: Research Interests: Artificial Intelligence/Machine Learning with Applications to Communications; Image/Video Processing; Biomedical Engineering; Data Mining Assoc Prof Wen Bihan Associate Professor/Office: Room S2-B2B-54Email: Research Interests: Machine Learning; Deep Learning; Transform Learning; Dictionary Learning; Tensor Modeling; Image and Video Processing; Denoising; Super-Resolution; Inpainting; Restoration; Computer Vision; Robust Classification / Segmentation; Object Detection; Crowd Counting; Image Retrieval; Computational Imaging; Magnetic Resonance Imaging (MRI); Computed Tomography (CT); X-Ray; Synthetic-Aperture Radar (SAR) Assoc Prof Wong Jia Yiing, Patricia Associate Professor/Office: Room S1-B1B-58Email: Research Interests: Differential Equations; Difference Equations; Integral Equations; Dynamic Equations on Time Scales; Numerical Mathematics and Inequalities Assoc Prof Wong Liang Jie Associate Professor/Assistant Chair (Faculty) Office: Room S2-B2B-52Email: Research Interests: Nanophotonics; Quantum materials; Free Electron Waveshaping; Ultrafast Optics; Nonlinear Optics; Special Fibres; 2 um Light Generation; Assoc Prof Xiao Gaoxi Associate Professor/Office: Room S2-1-B2-08Email: Research Interests: Complex Systems and Networks; Optical and Wireless Networking; Internet Technologies; Network Security Assoc Prof Yap Kim Hui Associate Professor/Office: Room S2-B2B-53Email: Research Interests: Image/Video Processing; Media Content Analysis; Computer Vision; Human-Computer Interaction; Computational Intelligence Assoc Prof Yoo Seung Woo Associate Professor/Deputy Director, Centre for Optical Fibre Technology (COFT)/Office: Room S2-B2B-50Email: Research Interests: Large-Mode-Area Fibres; Power Laser Applications; Fibre Amplifiers; Optical Telecommunications; Novel Silica Fibre Fabrication Processes Assoc Prof Yuen Chau Associate Professor/Assistant Dean (International Engagement), Graduate College/Office: Room S1-B1A-12Email: Research Interests: Wireless Communications; Smart Grid and Green Building; Localization and IoT Asst Prof Abdulkadir C. Yucel Assistant Professor/Office: Room S2-B2C-110Email: Research Interests: Fast Frequency and Time Domain Electromagnetic Simulators; VLSI/Microwave/Terahertz Circuits; Biomedical; Photonics; Wireless Channel Characterization; Analysis of Highly Inhomogeneous Media; Applications of Machine Learning; Deep Learning; Electromagnetics; Radar Asst Prof Chaeh Sanghoon Nanyang Assistant Professor/Assistant Professor, School of Materials Science & Engineering (Joint Appointment) Office: Room S2-B2B-64Email: Research Interests: Nanostructure Material-based Optoelectronics; 2D Materials Integrated Silicon Photonics; Photonic Memory Devices Asst Prof Hu Guangwei Nanyang Assistant Professor/Office: Room S1-B1B-39Email: Research Interests: Nanophotonics; Optical Physics; Metamaterials; Metasurfaces; Photonic Crystals; Optic Crystals; 2D and Van Der Waals Materials; Photonic Circuits; Bio-Imaging; Computations Asst Prof Ilya Belopolski Nanyang Assistant Professor/Office: Room S1-B1C-82Email: Research Interests: Topological Quantum Crystals; Two-Dimensional Materials & Epitaxial Synthesis; Skyrmions & Unconventional Magnetism Asst Prof Lee Sunwoo Nanyang Assistant Professor/Office: Room S2-B2B-61Email: Research Interests: Autonomous Microsystems for Physiological Monitoring; Miniature Systems for Smart Farming; Heterogeneously Integrated CMOS as a High Density; High-Speed Opto-electronic Communications Platform Asst Prof Sia Jia Xu Brian Assistant Professor/Office: Room S2-B2B-49Email: Research Interests: Large-Scale Multi-Material & Optoelectronic Integration; Environmental and Pharmaceutical Sensors; Optics, Integrated Optics, and Metasurfaces Asst Prof Song Peng Nanyang Assistant Professor/Assistant Professor, School of Materials Science & Engineering (Joint Appointment) Office: Room S1-B1B-40Email: Research Interests: Spintronics; Materials and Devices; Two-dimensional Materials Physics; Memory and Computing Devices; Quantum Materials and Technologies Asst Prof Wang Lin Assistant Professor/Office: Room S2-B2C-91Email: Research Interests: Bio/Neuro-inspired AI; Robotic Sensing and Perception; Multi-modal AI; 3D Localization and Mapping; Embodied Intelligent Systems Asst Prof Wu Yang Assistant Professor/Office: Room S2-B2B-46Email: Research Interests: Power Electronics; Power Cables; Modeling and Analysis; Condition Monitoring and Health Management Asst Prof Yang Yun Assistant Professor/Office: Room S2-B2C-105Email: Research Interests: Power Electronics; Wireless Power Transfer; Renewable Energy Technologies; Electric Vehicles; Nonlinear Control Asst Prof Zhang Weiran Nanyang Assistant Professor/Office: Room S1-B1C-99Email: Research Interests: Energy Storage and Conversion; Advanced Battery Technology, AI-Driven Life Prediction and Diagnostics; Next-Generation Battery Chemistry; Electro-Mechanics in Solid-State Devices; Electrochemically Tunable Materials; Solid Ion Conductor; Materials Interfaces Asst Prof Zhang Yujie Assistant Professor/Office: Room S1-B1C-95Email: Research Interests: Antenna Technology; RF and Microwave Circuits; Applied Electromagnetics; Wireless Communications; Internet of Things (IoT) Dr Foo Yi Shyh Eddy Senior Lecturer/Office: Room S1-B1C-89Email: Research Interests: Multi-Agent Systems; Microgrid Energy Management Systems; Electricity Markets; Power Hardware in the Loop; Renewable Energy Resources; Machine Learning for Forest Recovery Management; 2D and 3D Point Cloud Datasets Dr Ge Tong Senior Lecturer/Office: Room S1-B1C-97Email: Research Interests: Analog and Mixed Signal IC design; Envelope Tracking Supply Modulator; Printed Electronics Dr Hu Xiaole Lecturer/Office: Room S2-B2A-11Email: Research Interests: Ultrafast Fiber Lasers; Nonlinear Optics; Machine Learning Dr Lim Wei 67904936Email: Research Interests: Physical AI; Multimodal AI; Large Language Models; Embodied AI; Robotics; AIoT Systems Cheong Meng Yee Visiting Professor/Email: Carlo Sirtori Visiting Professor/Email: Chen Shoushun Chief Executive Officer, Glancevision Technology (Singapore) Pte. Ltd. Adjunct Associate Professor/Email: Cheong Chee Ho Adjunct Professor/Chief Executive Officer, DSO National Laboratories (DSO) Email: Philippe Coquet Adjunct Professor/Office: CINTRA/RTP BX L6Phone: +(65)6316 2956Email: Amit Kumar Gupta Adjunct Associate Professor/Email: Dora Hu Junjuan Adjunct Associate Professor/Principal Scientist/Group Head, Optical & Signal Processing Group Communications & Networks Department, Institute for Infocomm Research, Agency for Science, Technology and Research (A*STAR), Singapore Email: Adjunct Associate Professor Eric Phua Jian Rong Adjunct Associate Professor/Principal Technology Secretary to Executive Chairman (NTT), Head, Nanofilm Innovation Engine/Co-Director, NTU-NTU Corp Lab/Office: S1-B1C-86Email: Poh Eng Kee Adjunct Professor/Program Director, DSO National Laboratories (DSO) Email: Indrajit Singh Adjunct Professor/Chief Executive Officer, Solstar International Pte Ltd/Office: NTU/Unit 01 110 (Innovation Centre) Phone: +(65) 6784 3696Email: Elva Zou Adjunct Associate Professor/Head of Gojek Strategy, Gojek/Email: NTU EEE is now one of the top-ranked schools in the world, ranked 1st globally by subject in the U.S. News and World Report Best Global Universities Rankings 2025 and 4th worldwide in the QS University Rankings by Subject 2025 (Electrical and Electronic Engineering). It is also one of the top Asian Schools (Ranked 6th) for the Shanghai Ranking's Global Ranking of Academic Subjects 2024 (Electrical & Electronic Engineering). The School boasts a strong cadre of over 110 full-time faculty members from 21 countries with a broad spectrum of teaching and research expertise educated in renowned universities, including Massachusetts Institute of Technology (MIT), Stanford University, University of Cambridge, and Imperial College London, etc. Complementing the highly cited and internationally recognised faculty including many fellows of various professional societies, is a pool of extremely talented and competitive young faculty recruited from top institutions worldwide. Among them, there are 18 IEEE Fellowships (FIEEs), 3 IET Fellows (FIETs), 3 Institute of Physics Fellows (FIAPs), 5 Fellow of the Academy of Engineering Singapore (SAEng), 4 Fellow of Institution of Engineers Singapore, 3 Fellow of The Optical Society, and 17 Fellows of other professional bodies. Our faculty members serve as Editor-in-Chiefs for J9ournals, and Editors, Associate Editors, Technical Editors and Editorial Board Members for more than a hundred international journals, which include many IEEE The School receives over \$80 million in annual research funding. They are supported by about 300 researchers from all over the world. These researchers enable the schools' extensive research output in the areas of Big Data Analytics, Internet of Things, Intelligent Transportation (V2X), Satellites, Photonics, Autonomous Systems, Power and Energy Engineering, Biomedical and Healthcare, Communications Engineering and Artificial Intelligence. publications. Our faculty publishes an average of more than 900 journal papers and close to 500 conference papers per year. Over the last 5 years, more than 530 patents have been filed and more than 100 have been granted. Our faculty members are also engaged in a broad range of collaborations with renowned overseas universities, research institutes and multinational companies to ensure we stay ahead of tomorrow's demands. Being Singapore's first school with an undergraduate satellite programme, NTU EEE has proudly launched a total of nine locally-made satellites, including Singapore's first satellite, the X-SAT, in 2011. Since NTU EEE's Satellite Research Centre inception in 1999, it has been at the forefront of space innovations. In January 2017, we launched our seventh satellite, the AOA VEOX-III, which was the first Singaporean satellite ever to be launched from the International Space Station. To support advanced research, the school hosts 14 research centres/facilities and 60 laboratories which are equipped with sophisticated and state-of-the-art equipment. Our partners include Thales, Delta Electronics, NXP, Schaeffler Group, SMRT, ST Engineering, Continental and Singapore Power. NTU EEE has set up five corporate laboratories for joint research & development, and these centres are pushing the frontiers of technological innovation. The School is continuously reviewing its programmes to ensure that the curriculum is relevant and up to date with the advancement of science and engineering, changes in industry and Singaporean economic needs. On the research front, the School aims to enhance its international and regional research standing. It will continue to develop multidisciplinary research centres of excellence and promote vibrant research culture. It will perform active sensing of international trends and national needs in order to develop new initiatives to meet these needs. To date, NTU EEE consists of an average of 3000 undergraduate students in eight areas of specialisation, 2000 students in nine graduate academic programmes, and an alumni strength of over 36,000. On this page, you can find essential information to help you with the administrative procedures to ease your matriculation into NTU and setting in Singapore. While we aim to provide accurate information, we are not responsible for discrepancies or the content on third-party sites. Since 1985, the NTU School of Electrical and Electronic Engineering (NTU EEE) has established itself to be one of the largest and most highly ranked schools in the world, attracting an average of over 2,000 graduate students across its 5 Master of Science programmes in specialised fields, catering to the ambitions of aspiring engineers seeking to amplify their impact in an ever-evolving technological landscape. NTU EEE continues to review its programmes regularly to stay up to date with the advancement of science and engineering, changes in industry and Singaporean economic needs. Whether your passion lies in communications engineering, control and automation systems, integrated circuit design, microelectronics fabrication and manufacture of electronic and photonic products, renewable energy, signal processing or algorithm development, our specially designed programmes are poised to enrich your understanding, cultivate your practical skills and empower you with the expertise demanded by today's dynamic industries. The journey towards engineering excellence begins with a choice - Your choice. By enrolling into NTU EEE's MSc programme, you are not only embracing an education of the highest caliber but also embracing a future full with possibilities. Embrace the opportunity and enhance your engineering venture today. 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