

■ Doctoral thesis oral defense (completion expected March 2023)

	【Circuit】 Date : January 18th, 2023. Venue : Rm. 201, South Bldg. 3					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
1	10:00 ~ 11:30	Li Zheng	Electrical and Electronic Engineering	Kenichi Okada		Area-Efficient and Power-Efficient CMOS Phased-Array Beamformers for High-Data-Rate Communications
	【Circuit】 Date : Dec. 26, 2022 Venue : OSC room, 1F, R2 (Suzukake)					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
2	14:00 ~ 15:30	LI CHAO	Electrical and Electronic Engineering	Hiroyuki Ito		Data Augmentation for Inertial Sensor Data in Edge AI Devices for Cattle Behavior Estimation
	【Wave】 Date : Jan. 10, Tue, 2023 Venue : S9-605					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
1	14:40 ~ 16:10	Hibiki Kagami	Electrical and Electronic Engineering	Nobuhiko Nishiyama		Study of optical coupling between silicon and topological waveguides for on-chip optical angular momentum multiplexing.
2	16:10 ~ 17:40	Takehiko Kikuchi	Electrical and Electronic Engineering	Nobuhiko Nishiyama		Study of chip-on-wafer heterogeneous bonding technology toward III-V/Si large scale photonic integration circuits
	【Wave】 Date : Jan. 6, Fri, 2023 Venue : S3-201					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
3	13:45 ~ 15:15	Iwabuchi Masashi	Electrical and Electronic Engineering	Sakaguchi Kei		Design of Millimeter-wave Mobile Communication Systems based on Redundant Radio Resource Control
	【Wave】 Date : Jan. 5, Thu, 2023 Venue : S3-201					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
4	10:45 ~ 12:15	AMRALLAH Amr Ahmed Hasan	Electrical and Electronic Engineering	TRAN GIA KHANH	Sakaguchi Kei	Reinforcement Learning-based Optimization of Radio Resource Management and Trajectory Planning for Smart UAV Wireless Networks
	【Wave】 Date : January 6, 2023 Venue : Meeting room #1, second floor, south 3rd building					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
5	15:45 ~ 17:15	Baoquan Duan	Electrical and Electronic Engineering	Hirokawa		Study of corporate-feed waveguide slot array antennas for two-dimensional rectangular-coordinate orthogonal multiplexing
	【Device】 Date : December 26th, 2022 Venue : Room 605, S9 building					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
1	15:00 ~ 17:00	Mai Van Ta	Electrical and Electronic Engineering	Safumi Suzuki		Study on structure-simplified resonant-tunneling-diode terahertz oscillators
	【Device】 Date : December 27th, 2022 Venue : Rm. 605, South Bldg. 9					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title

Canceled

2	13:00 ~ 14:30	Kou Li	Electrical and Electronic Engineering	Tetsuo Kodera		A study on photo-thermoelectric sensor array sheets and three-dimensional non-destructive inspection applications
	【Device】 Date : January 6th, 2023 Venue : Suzukake Hall H2 Bldg. 2F Meeting Room 2					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
3	14:00 ~ 15:30	Joong-Won Shin	Electrical and Electronic Engineering	Shun-ichiro Ohmi		A study on the threshold voltage control of MFSFET with ferroelectric nondoped HfO ₂ gate insulator for analog memory applications
	【Device】 Date : January 10th, 2023 Venue : South 6 Bldg. Room 605					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
4	13:00 ~ 14:30	Daisuke Nishitani	Electrical and Electronic Engineering	Mutsuko Hatano	Takayuki Iwasaki	Diamond quantum sensors for biomagnetic field sensing
	【Device】 Date : January 12th, 2023 Venue : Rm. 605, South Bldg. 9					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
5	13:30 ~ 15:00	Jun Kamioka	Electrical and Electronic Engineering	Tetsuo Kodera		Research on semiconductor monolithic microwave integrated circuits for the advanced information and communication network infrastructure
	【Device】 Date : January 12th, 2023 Venue : J2・J3 Bldg. 20F, Middle Meeting Room					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
6	15:00 ~ 16:30	Gensai Tei	Electrical and Electronic Engineering	Masahiro Watanabe		Fundamental study of near infrared quantum cascade lasers using Si/CaF ₂ heterostructures
	【Device】 Date : January 16th, 2023 Venue : Suzukake Hall H2 Bldg. 2F Meeting Room 1					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
7	12:30 ~ 14:00	Takashi Hashimoto	Electrical and Electronic Engineering	Kazuo Tsutsui		Study on the 0.18 μm SiGe BiCMOS having compatibility with standard CMOS processes and SiGe HBTs with high frequency characteristics over 250 GHz
	【Device】 Date : January 20th, 2023 Venue : S2 Bld., 1/2 meeting room					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
8	13:00 ~ 14:30	Kazuto Mizutani	Electrical and Electronic Engineering	Kuniyuki Kakushima		A study on reliability improvements in ferroelectric HfO ₂ with rare-earth oxide layers
	9	14:30 ~ 16:00	Sung-Lin Tsai	Electrical and Electronic Engineering	Kuniyuki Kakushima	
【Device】 Date : January 25th, 2023 Venue : G2-501						
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
10	10:00 ~ 12:00	Jun Okuno	Electrical and Electronic Engineering	Hitoshi Wakabayashi		1T1C FeRAM memory array with Hf _{0.5} Zr _{0.5} O ₂ -based ferroelectric film
	【Material】 Date : January 5th, 2023 Venue : Meeting Room 2, 2nd floor in Suzukake Hall					
	Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title
1	10:00 ~ 12:00	Yusaku Shiotsu	Electrical and Electronic Engineering	Satoshi Sugahara		Study on ultralow-power SRAM and logic-system technologies using CMOS/Beyond-CMOS devices

【Material】 期日：令和5年1月17日(火) 会場：大学会館2階集会室1						
発表時刻	発表者	選択コース	主指導教員	副指導教員	論文題目	
15:30 ~ 17:00	Shahriar Kabir	Electrical and Electronic Engineering	Hiroaki Iino		Study on Near-infrared Photodetectors with a Liquid Crystalline Phthalocyanine Derivative for Biomedical Applications	
【Material】 期日：令和5年1月18日(水) 会場：R2棟1階 OCS-1						
発表時刻	発表者	選択コース	主指導教員	副指導教員	論文題目	
16:00 ~ 17:30	Sabina Kang	Electrical and Electronic Engineering	Hiroaki Iino		Study on Thin Film Transistors using Liquid Crystalline Organic Semiconductor and Silver Electrodes	
【Power】 Date : 26th December, 2022 Venue : Zoom						
Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title	How to apply
13:30 ~ 15:00	Takahiro Noguchi	Electrical and Electronic Engineering	Akira Chiba	Hiroya Sugimoto	Study on novel machine structure and theoretical analysis of magnetic suspension force generation in consequent-pole bearingless motor	Please contact Prof. Akira Chiba for further information. E-mail: chiba@ee.e.* (Please replace "*" with "titech.ac.jp")
【Power】 Date : 27th December, 2022 Venue : 0-okayama campus S3-201						
Presentation time	Name	Graduate Major	Supervisor	Co-supervisor	Doctoral thesis title	
13:30 ~ 15:00	Junichi Nakajima	Electrical and Electronic Engineering	Makoto Hagiwara	Takahiro Urakabe	Study of automated modeling of power modules and their parameter study considering reliability for optimizing power converter design	

We will use video conference system.
*Faculty members and students in Graduate major in Electrical and Electronic Engineering of Tokyo Tech can obtain the Zoom URL form the web site of Dept. of E&E Eng.

2022.12.19