The 33rd JUACEP Workshop 2024 Summer Research Course, Track A

Date13:30 - 17:00August 8, 2024VenueTEL Auditorium (3F, El Bldg.)

No prior registration required.

13:30 Opening address by Prof. T. Matsumoto, JUACEP Committee
13:35 (1) Seoyeong Park Advisor: Prof. N. Kawaguchi, Information & Communication Eng. "Clustering-Based Multitask Classification for Predictive Consumer Behavior Modeling"
13:50 (2) Utkarsh Srivastava Advisor: Prof. T. Fujii, Information & Communication Eng. "Region of Interest Based Medical Image Compression"
14:05 (3) Xiaoyue Wu Advisor: Assoc. Prof. K. Fujii, Intelligent Systems "Optimization for Robust Lidar SLAM Framework for Predictive World Modeling Integration"
 14:20 (4) Raphaël Plante Advisor: Prof. T. Matsumoto, Mechanical Systems Eng. "Educational Exploration of Topology Optimization: Key Concepts of the Exact Volume Constraint Method"
14:35 Break time
14:45 (5) Jacob Kokinda Advisor: Prof. N. Nishizawa, Electronics "All-PM Tm-doped Ultra Short Pulse Fiber Laser Using SWNTs"
15:00 (6) Gavin Silveira Advisor: Prof. T. Kato, Electrical Eng. "Impact Assessment of Combination of Secondary and Tertiary Reserve Capacity Flexibility for Reducing Operating Costs in Power Systems with High Penetration of PhotoVoltaic Power in Japan"
15:15 (7) Melody Polk Advisor: Advisor: Prof. H. Tomita, Applied Energy "Improvements in Cavity Ring-Down Spectroscopy for Tritiated Water Analysis"
15:30 (8) Maria Acuna Advisor: Assoc. Prof. K. Kinefuchi, Aerospace Eng. "SWBLI Mitigation via Cryogenic Cooling: Numerical and Experimental Analysis"
15:45 Break time
15:55 (9) Edith Shear Advisor: Assoc. Prof. K. Kinefuchi, Aerospace Eng. "Thrust Characteristics of Diverging Magnetic Field Thrusters"
16:10 (10) Mohamed Diop Advisor: Prof. A. Yoshimura, Aerospace Eng. "Comparative Study of Virgin and Recycled CFRPs Characteristics"
16:25 (11) James Fernandez Advisor: Prof. J. Kasahara, Aerospace Eng. "Synchronization of Dual Rotating Detonation Engines with Straight and Diverging Nozzles"
16:40 Completion ceremony: Address from Dean, Prof. M. Kobashi
The participants will deliver presentations (10mins. + Q&A 4mins.) based on their research topics of the home universities and NU.



CEP Collaborative Education program



Program Website

The 33rd JUACEP Workshop II 2024 Summer Research Course, Track B

Date: 10:30-11:15 August 29, 2024

Venue:

TEL Auditorium, El Bldg. 3F



Japan-US-Canada Advanced Collaborative Education program

The participants will deliver presentations (10mins. + Q&A 4mins.) based on their research topics of the home universities and NU. 10:30 – 10:35 Opening address: Prof. Yasumasa Ito, JUACEP Committee

10:35 - 10:50

(1) Yukteshwar Ravi, "Development of a Novel Haptic System using a 3D Vibration Motor"

Adviser: Prof. Tsuyoshi. Inoue, Mechanical Systems Engineering

10:50 - 11:05

 (2) Rosemary He, "Statistical Testing on Generative AI Anomaly Detection Tools in Alzheimer's Disease Diagnosis" Adviser: Prof. Ichiro Takeuchi, Mechanical Systems Engineering

11:05 – 11:15 Completion ceremony

Inquiry: JUACEP Office 052-789-2799 office@juacep.engg.nagoya-u.ac.jp



Program Website