

Japan-India Academic Exchange Kick-off Symposium

Friday, March 6th, 9:50 – 18:15



Venue: e-Nexus Building (E-11), The University of Electro-Communications (UEC)

ZOOM: <https://uec-tokyo.zoom.us/j/99325275782?pwd=ed5pKI30yGaVO5lufaAt28Y5s3Ctx2.1>

09:50 - 10:00 | Dr. Shunichi Tano (President of UEC)

Opening Remarks



Session 1: AI & Multimodal Systems Chair: Kazuto Masamoto (UEC)

10:00 - 10:25 | Rajiv Ratn Shah (IIIT Delhi)

Tackling Multimodal Challenges with AI: From User Behavior to Content Generation

10:25 - 10:40 | Adarsh Pandey (IIIT Delhi)

Wearables for Healthcare: Multimodal AI Systems for Real-World Impact

10:40 - 10:55 | Zhiqiang He (UEC/ Liu's lab)

Plasticity-Aware Mixture of Experts for Learning Under QoE Shifts in Adaptive Video Streaming

Session 2: Space Weather & Meteorology Chair: Yasuhide Hobara (UEC)

11:05 - 11:30 | Abhirup Datta (IIT Indore)

TBA

11:30 - 11:55 | Sudipta Sasmal (IASES/ UEC)

Indo-Japan Collaboration: Hazards, Space Weather, and the Ionosphere

11:55 - 12:15 | Debrupa Mondal (Nihon Univ.)

An Observational Overview of Total Lightning-Heavy Rainfall Relationships and Nowcasting Potential During Summer Thunderstorms in Japan

12:15 - 13:05 Lunch Break

Session 3: Biomedical Engineering & Robotics Chair: Norihiro Koizumi (UEC)

13:05 - 13:30 | Deepak Raina (IIT Mandi)

Advances in Autonomous Robotics for Ultrasound-guided Diagnostics and Interventions

13:30 - 13:55 | Ryo Karakawa (JFCR)

Needs-Driven Bio-Medical Engineering: From Advanced Microsurgery to Global Surgical Solutions

13:55 - 14:10 | Shikha Sharma (IIIT Delhi)

Toward Independent Learning for Blind Students: Evaluating Multimodal Audio–Tactile Interaction

14:10 - 14:25 | Satyendra Yadav (GBU)

Prediction with abstention for reliable medical image diagnosis

14:25 - 14:35 Break

Session 4: Quantum Physics & Materials Chair: Kali Prasanna Nayak (UEC)

14:35 - 14:50 | Hari Sadhan Ghosh (IIT Kharagpur)

Induced supersolidity and hypersonic flow of a dipolar Bose-Einstein condensate in a rotating bubble trap

14:50 - 15:05 | Yuki Ohishi (UEC/ Endo's lab)

Schrödinger equation with $1/r^3$ and attractive $1/r^2$ potentials: Three-body parameter of mixed-dimensional Efimov states

15:05 - 15:20 | Ryogo Hara (UEC/ Endo's lab)

Dynamics of entanglement asymmetry for space-inversion symmetry of free fermions on honeycomb lattices

15:20 - 15:35 | Mulimani Rajashekhar Kashipati (UEC/ Hirata's lab)

Selenium induced through-bond interactions to enable efficient deep red organic room temperature phosphorescence

15:35 - 15:50 | Ryo Miyashita (UEC/ Hirata's lab)

*Organic Phosphorescence Enhancement of a Fused Aromatic Hydrocarbon
Sandwiched between Two Selenium Atoms*

15:50 - 16:00 Break

Session 5: Atomic Physics & Environment Chair: Hiroki Saito (UEC)

16:00 - 16:15 | Junichi Acharya (UEC/ Nayak's Lab)

Real-time monitoring of photon counts in a single-atom array

16:15 - 16:30 | Toshihiro Yagi (UEC/ Nayak's Lab)

*Generation of Nanosecond-Scale Pulses for Measuring Cs Atom Excited State
Lifetimes on Optical Nanofibers*

16:30 - 16:45 | Rakhijul Alam Faruque (NSOU)

*Atmospheric Electric Field as a Possible Severe Pollution Indicator and
Response of the Atmospheric Electric Field on May 2024 Victory Day
Geomagnetic Storm*

16:45 - 17:00 | Bhuvnesh Brawar (IIT Indore)

Plasma bubble zonal drift measurements with GEO/GSO Satellites

17:00 - 17:10 Break

Session 6: Ionospheric & Space Science Chair: Abhirup Datta (IIT Indore)

17:10 - 17:30 | Kousik Nanda (IASSES)

*Integrated Analysis of Atmospheric Gravity Wave and TEC Anomalies Associated
with Tropical Cyclones and Extratropical Typhoon During Solar Quiet Conditions*

17:30 - 17:50 | Ajeet Kumar Maurya (BBAU)

*Electromagnetic Wave Observation and Big Data Analytics for Ionospheric Monitoring
and Disaster Resilience*

17:50 - 18:10 | Sujay Pal (Srikrishna College (KU))

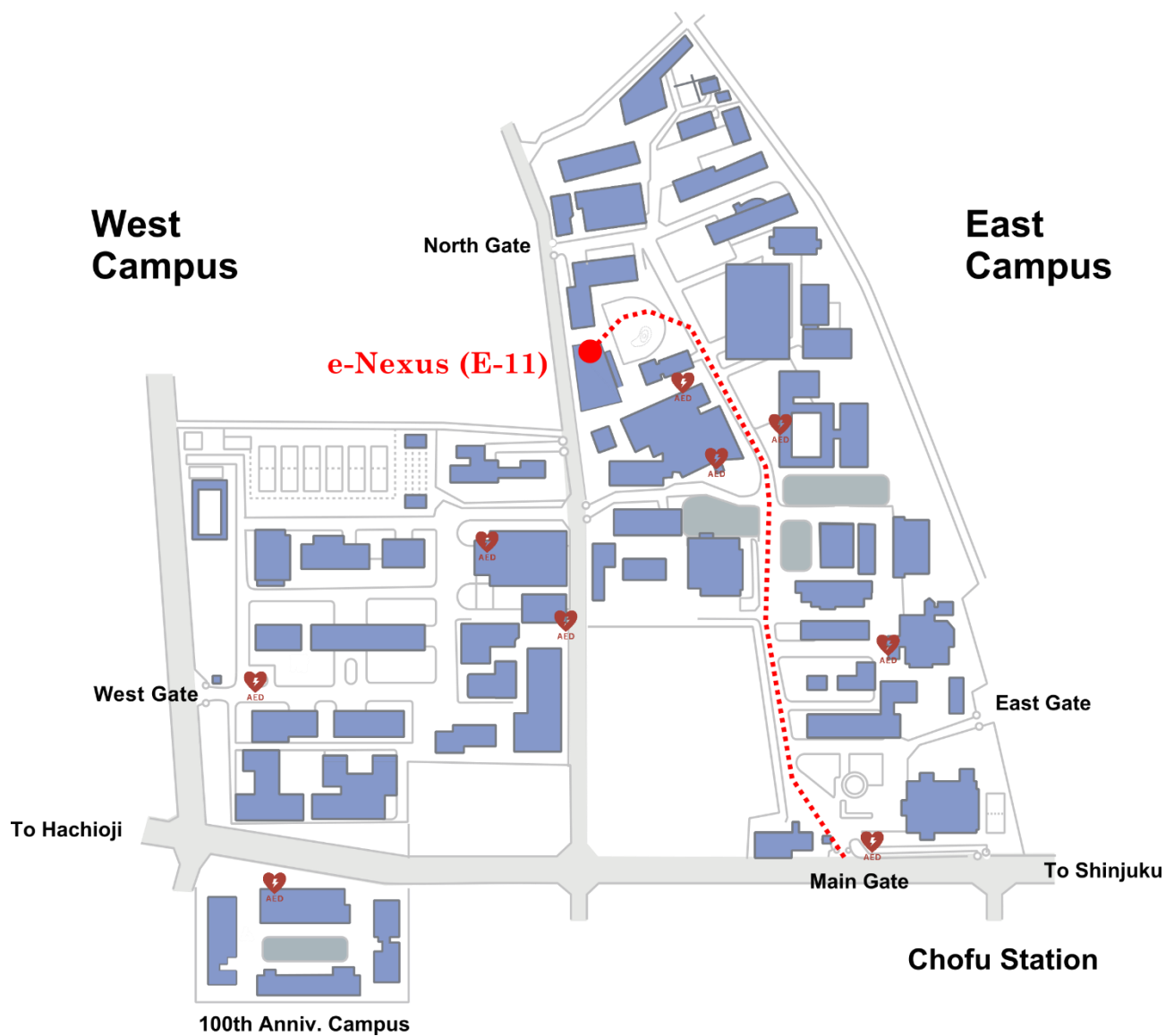
18:10 - 18:15 | Dr. Masakazu Muramatsu (Member of the Board of Directors of UEC)

Closing Remarks

18:30 - Networking Event

Symposium Venue

The University of Electro-Communications (e-Nexus, E-11)



Abstract: <https://www.fedu.uec.ac.jp/tmp/flipbook/index.php?book=pdfs%2FAbstract.pdf>

