Department of Electronic and Information Engineering (EIE)

INNOVATIVE TECHNOLOGY SHOWCASE

16 May 2016 (Monday), 09:30 – 14:00, PolyU CD634

The EIE Department, PolyU organizes “Innovative Technology Showcase” for fostering collaboration between the Department and industries. Come and find out more about the latest research achievements of our research groups, our undergraduate students’ final-year project work and collaboration opportunities.

- Latest research achievements of research groups
  - Communications Research Group
  - Multimedia Signal Processing Research Group
  - Nonlinear Circuits and Systems Research Group
  - Photonic Systems and Devices Research Group
- Undergraduate students’ final-year project work
- Sharing on collaboration opportunities between PolyU, EIE and industries

Register by email by 3 May 2016:

eie.enquiry@polyu.edu.hk

Enquiry:
Department of Electronic and Information Engineering
The Hong Kong Polytechnic University
2766 6223 / 2766 6259
eie.enquiry@polyu.edu.hk
INNOVATIVE TECHNOLOGY SHOWCASE
16 May 2016 (Monday)

9:30 a.m. – 10:00 a.m. Opening (Room CD634, EIE, PolyU)

10:00 a.m. – 12:00 noon Demonstration of Research Projects and Final-Year Projects

- Communications Research Group
  - Advanced Forward Error Correction System with Extremely Low Error Rate (Room EF502)
  - Digital Carrier Recovery in Coherent Optical Fiber Communication Systems (Room EF503)
  - Distributed Optical Fibre Sensors (Room EF503)
  - Fourier Domain Mode Locked Laser (Room EF503)
  - Nonlinear Fourier Transform based Transmission Systems (Room EF503)
  - Optical signal processing (Room EF503)
  - Short Reach Optical Communication Systems (Room EF503)

- Nonlinear Circuits and Systems Research Group
  - Energy Saving LED Video Wall (Room EF502)
  - Flying Drones (Room CF505)
  - Urban Farming Using Sustainable Lighting Technology (Room EF501j)

- Photonic Systems and Devices Research Group
  - Biosensors – Surface Plasmon Microscopy (Room DE505)
  - High-efficiency Perovskite-based Solar Cells (Room BC701)

- Multimedia Signal Processing Research Group
  - Automatic 3D Object Measurement Using Fringe Projection Profilometry (Room DE503)
  - Biometric Authentication via Text-Independent Speaker Verification (Room DE503i)
  - Smart City Development with Visual Technologies: (i) Leisure-Life and (ii) Collision Avoidance of Light-Rail Trains (Room DE503)
  - State-of-the-Art Technologies for Image/Video Enlargement/Super-Resolution via Learning Approach (Room DE503)
  - Super-Resolution Imaging with Occlusion Removal Using a Camera Array (Room DE503)

- Undergraduate Students’ Final-year Projects
  - Information Security Laboratory (Room CD514)
  - Project Laboratory (Room EF501)
  - Robotics and Control Laboratory (Room CF505)

12:00 noon – 2:00 p.m. Lunch (Staff Club Restaurant, 5/F, Communal Building, PolyU)

Sharing by Prof. Francis Lau, Associate Head and Professor, on collaboration opportunities between PolyU, EIE and industries