Name of the Candidate: 
Date of Interview: 
Appl.No.: 
Session: Forenoon/Afternoon

Please indicate your first and second preferences from the following areas (Mark 1,2 for the areas; underline the sub-topics).

A. Communication and Networks:
   - Information theory, network coding theory, information theoretic security, Error control coding, coded modulation. Cooperative communications and network coding, coding for distributed storage.
   - Wireless cellular communication systems, CDMA, OFDM/OFDMA, MIMO wireless systems.
   - Visible light wireless communication, space-time coding, low complexity MIMO/multiuser detection, Cognitive radio.
   - Communication networks: stochastic modeling, performance analysis, optimization and control problems arising in wireline and wireless networks (wireless access networks, ad hoc wireless networks, and wireless sensor networks). Network management, multiple access protocols, multimedia communication protocols and ubiquitous networking.
   - Optical networks. Learning, decision making and optimization.

B. Signal Processing:
   - Compressive sampling theory and sparse signal processing, MIMO signal processing.
   - Speech processing. Auditory signal processing, speech/audio recognition, speech/audio coding, speech/music enhancement.
   - Source localization and tracking, indoor positioning
   - Signal processing for MIMO wireless communication systems, wireless sensor networks.
   - Signal processing in visual neuroscience

C. Microelectronics:
   - Low power embedded systems, ultra low power mixed signal SOC, Analog, mixed-signal and RF integrated circuits, Nanotransistors with Si, III-V, 2D materials (Graphene, TMO), spintronics, nixel memory, CMOS sensors, Bio sensors.

D. RF & Microwave:
   - Computational electromagnetics, Solutions to Maxwell's equations: boundary element method, finite difference time domain method, finite element method; high speed interconnect simulation; antenna analysis and design;
   - RF in automobiles; Ultrawideband systems for imaging applications
   - Wireless power transfers; RF energy harvesting circuits.

E. Photonics:
   - Fiber optic communications, Photonic Integrated Circuits, Micro-opto-electro-mechanical systems (MOEMS).
   - Nano photonics, Bio photonics.
   - WDM Optical networks, Quantum Photonics.

NOTE: Immediately after the interviews, students have an option to change the priority order of the departments that they had indicated in their application forms.

Signature of the candidate: