IEEE International Conference on Control, Communication and Computing

July 05 - 07, 2018

Pre conference Tutorial Session on 4th July 2018

(Electrical Engineering Department, CET)

LET's EXPLOIT AND EXPLORE UBUNTU

- CONTROL APPLICATION PERSPECTIVE.

Unix (UNICS) is a feature rich and robust operating system. UNIX and most of its Variants are used in high end server environment. The kernel is unique and Subsystems are really well built. Most of the modern day operating systems are based on Unix/Linux kernel which conveys how important it is to learn and Understand UNIX.

UNIX has a very rich set of system calls and also supports vast range of commands thus making it very versatile. Building an application through the C Programming Language with proper system calls should be understood by any application developer. The book proposed is intended to elaborate both theoretically and practically (through program codes) the following (But, not limited to)

1. Fundamentals - A recap of essential UNIX commands and Shell.
2. File system and file system architecture.
3. Files and Processes.
4. Process tracking and scheduling.
5. Memory Management
6. Signals and Signal programming.
7. Timers in UNIX.
8. Interprocess Communication
    a. Pipe
    b. Named Pipe (FIFO)
    c. Semaphores
    d. Message Queue
    e. Shared Memory
9. Daemon Processes
10. File Locking concepts.

The Tutorial will provide the essential knowledge and skills of UNIX system programming and the topics are also compatible with Linux, Solaris and HP-UX. All the explanation and demos shall be based on UBUNTU Kernel.

For Registration visit website, http://ic4.cet.ac.in