IFIP WG 10.4

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Session reprot

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Engineering is Important

- **Mootaz Elnozahy**
  - HPC community is reinventing (rollback-recovery, ABFT, etc.)
  - Performability and completion time in the presence of failures (Kishor's addition)
  - Perhaps because DSN/FTCS concentrated on Science and not on Engineering

Engineering is Important

- Bill Sanders
  - Engineering is important in addition to science in dependability, security, resiliency
  - Quantifying dependability or security of systems more meaningful in a comparative sense rather than as absolute numbers
  - A very difficult problem can be tackled to get an initial approximate solution
  - Assurance by assessment
  - Tools for dependability assessment exist; those for security/resilience being developed

Engineering is Important

- John Rushby
  - The future
  - Self-assembling systems of systems (IoT)
  - And don't forget the science while engineering – Theorem proving

  - What about model checking and probability model-based assurance methods? (Kishor's addition) to work together with theorem proving