Education in Flow Analysis

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Outline

Motivation
Professional Education
Undergraduate Education
Graduate Education
Motivation

Integration of flow into curricula
  • Traditional subjects
  • Flow practice
  • Flow research

Integration of flow education efforts
  • Professional
  • Academic
Professional Education -- Traditional

Goal: allow network analysts to use flow-based tools and methods

Teaching approach: (local or distance)
- Tool driven
- Task driven
- Network driven

Issues:
- Avoiding overload
- Meeting needs at varying levels of proficiency
- Meaningful exercises
Professional Education -- Integrated

Goal: Introduce flow as means of illustrating other topics of interest.
  • Network Administration
  • Network Protocols
  • Network Design

Teaching approach:
  • Illustration-based (not tools, results)
  • Method-based (procedure and results)

Value:
  • Integration of security and practice
  • Illustration from live traffic (probably anonymized)

Issues:
  • Time
  • Distraction factor
Undergraduate Education

Integrated
  • Operating systems or network courses
  • Analogous to professional integrated courses

Special Topics
  • Training analysts
  • Leading in to research

Issues:
  • Scope and Sequence
  • Direction
Graduate Education

Integrated

Practicum

Lecture/Lab

Seminar
Summary

Range of Options

Contributions

Panel