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