

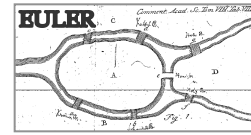
Measurements and Measurement Tools

FIRE thematic workshop

May 9, 2012

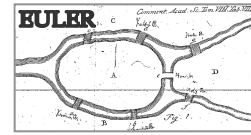
Aalborg, Denmark

Welcome



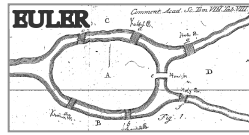
- This workshop aims at gathering FIRE projects under the measurement and tools thematic
- Tools
 - key elements in the operation and management of future network infrastructures, at the equipment and network performance monitoring level but also in support of higher-level control functionality such as on-line analysis and diagnostic
 - fundamental role in measurement-based experimental research relying on the experimental evaluation and benchmarking of project outcomes including protocols, systems, etc. by means of reliable and verifiable tools
- This workshop consists of 11 talks from 9 different FIRE European projects and a final round table
- Speakers
 - present their current needs and developments on measurements and associated tools in the context of experimental research
 - discuss available tools to measure heterogeneous metrics in wireless/sensor networks, large scale experimental facilities, openflow-enabled networks, and Internet.

Expected outcomes



- Identify what can be performed/reached by means of cooperation between projects
 - from a directory of tools accessible to the FIRE community
 - to the joint development of tools, under which conditions, etc.
- Determine needs and document best practices in tools development for measurement-based experimental research

Welcome



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- 9.30 - Session 1: Introduction and motivation of the workshop topic
 - 10.00 - Session 2: Tools needs and tools developed in FIRE
 - 12.30 - Lunch break
 - 13.30 - Session 3: Tools needs and tools developed in FIRE
 - 16.20 - Session 4: Round table
 - 17.00 - Concluding session

- 10.00 - Session 2: Tools needs and tools developed in FIRE
HOBNET Experimental performance evaluation of sensor-based networking for energy efficiency in smart buildings
Sotiris Nikolettseas
- 10.30 - Coffee break
- 11.00 - Session 2: Tools needs and tools developed in FIRE
CREW: Metrics and measurement tools for assessing the channel condition in a wireless experimentation environment
Ingrid Moerman
LAWA: Methods and tools for temporal Web analytics
Marc Spaniol
CONVERGENCE: Metrics and measurement tools needs in Information-Centric Networking and CONVERGENCE in particular
Nicola Blefari Melazzi
- 12.30 - Lunch break

13.30 - Session 3: Tools needs and tools developed in FIRE

OFELIA: metrics and measurement tools needs in openflow and OFELIA in particular

Hagen Woesner

OpenLab: Delivers control and experimental plane middleware to facilitate early use of its large scale shared experimental facility by researchers

Anastasius Gavras

EULER: Metrics and measurement tools for distributed and adaptive routing algorithms

Dimitri Papadimitriou

14.50 - Coffee break

15.20 - Session 3: Tools needs and tools developed in FIRE

OpenLab: Measurements and measurement tools in OpenLab

Javier Aracil

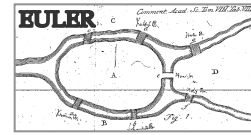
NOVI: NOVI's experience in monitoring tools and measurements

Józsi Stéger

CONNECT: NITOS - Methods and measurement tools for experimentation on wireless testbeds

Thanasis Korakis

Panel session



- 1) Determine needs, new domains of measurements (not currently addressed), and document best practices in tools development for measurement-based experimental research
- 2) Which tools have been developed and applied outside the scope of FIRE experimental facilities: determine the missing elements for large-scale experiments on these facilities
- 3) Which tools that can be combined (with potential extension) for larger experiments, e.g., multiple STREPs joining efforts and what would be missing to realize larger experiments
- 4) Which tools that are mature enough to start a basis for re-use by other projects
- 5) Identify what can be performed/reached by means of cooperation between projects from a directory of tools accessible to the FIRE community at large up to the joint development of tools, under which conditions, etc.