

# **ACM ReArch '09**

## **Re-Architecting the Internet**

**NOKIA**

**Tilman Wolf    University of Massachusetts**

**Lars Eggert    Nokia Research Center**

**Rome, Italy**

**December 2, 2009**

# WLAN

SSID: CNRMORO

open web browser

click "Ospiti"

login: ospite.convegna

password: ospiteconvegna



# Program Committee

Bengt Ahlgren

Mark Allman

Jun Bi

Bob Briscoe

Brian Carpenter

Jon Crowcroft

Kevin Fall

Pierre Francois

James Griffioen

Robert Hancock

Mark Handley

Hiroaki Harai

Daniel Massey

Martin May

Akihiro Nakao

Pekka Nikander

Craig Partridge

George Rouskas

Peter Steenkiste

Christian Vogt

Klaus Wehrle

Rolf Winter

Martina Zitterbart

# Steering Committee

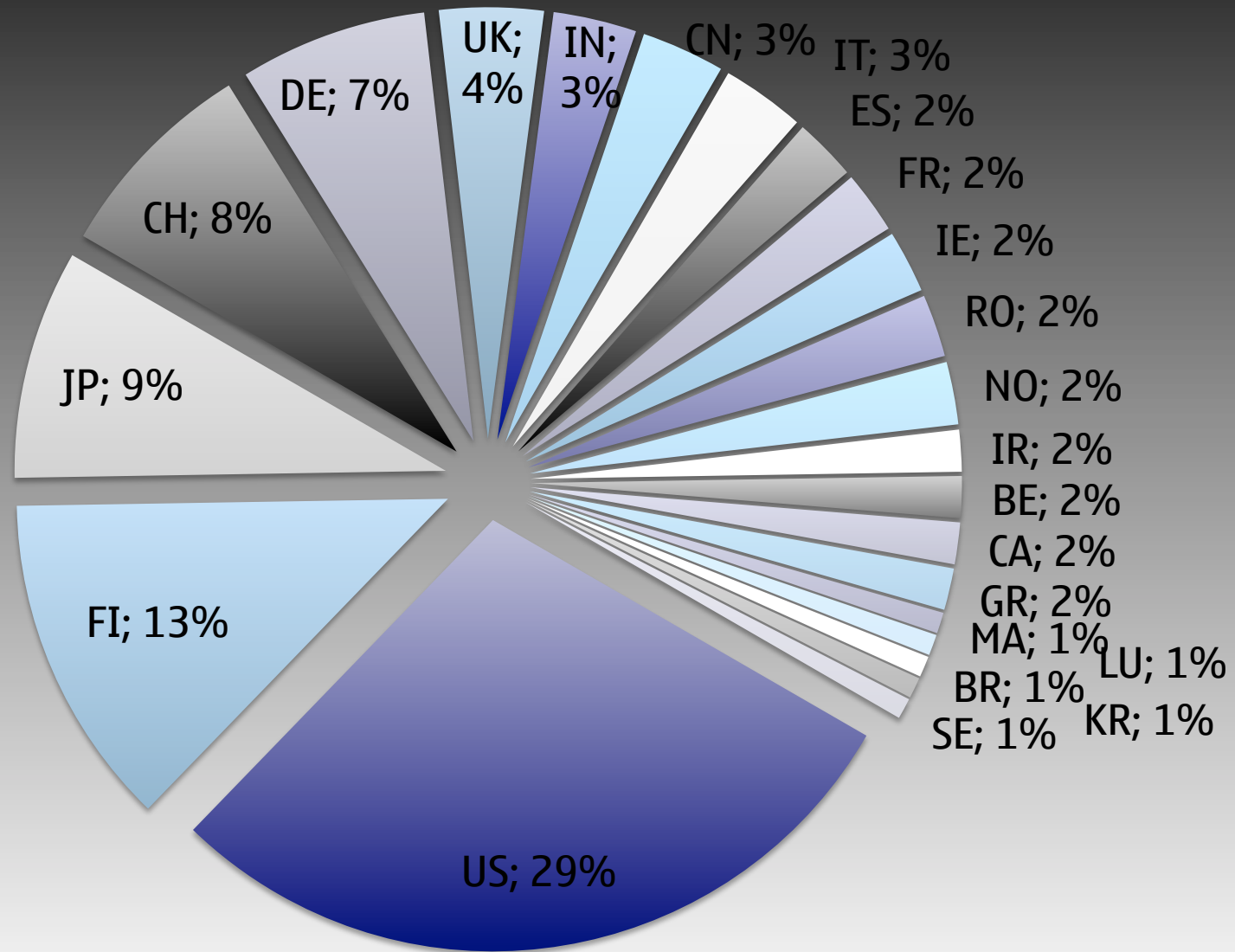
Marcelo Bagnulo

Olivier Bonaventure

Kenjiro Cho

Joe Touch

# Author Breakdown – Registered Papers



# Review & Acceptance Process

23 TPC members, chairs excluded

single-blind review process

48 submissions

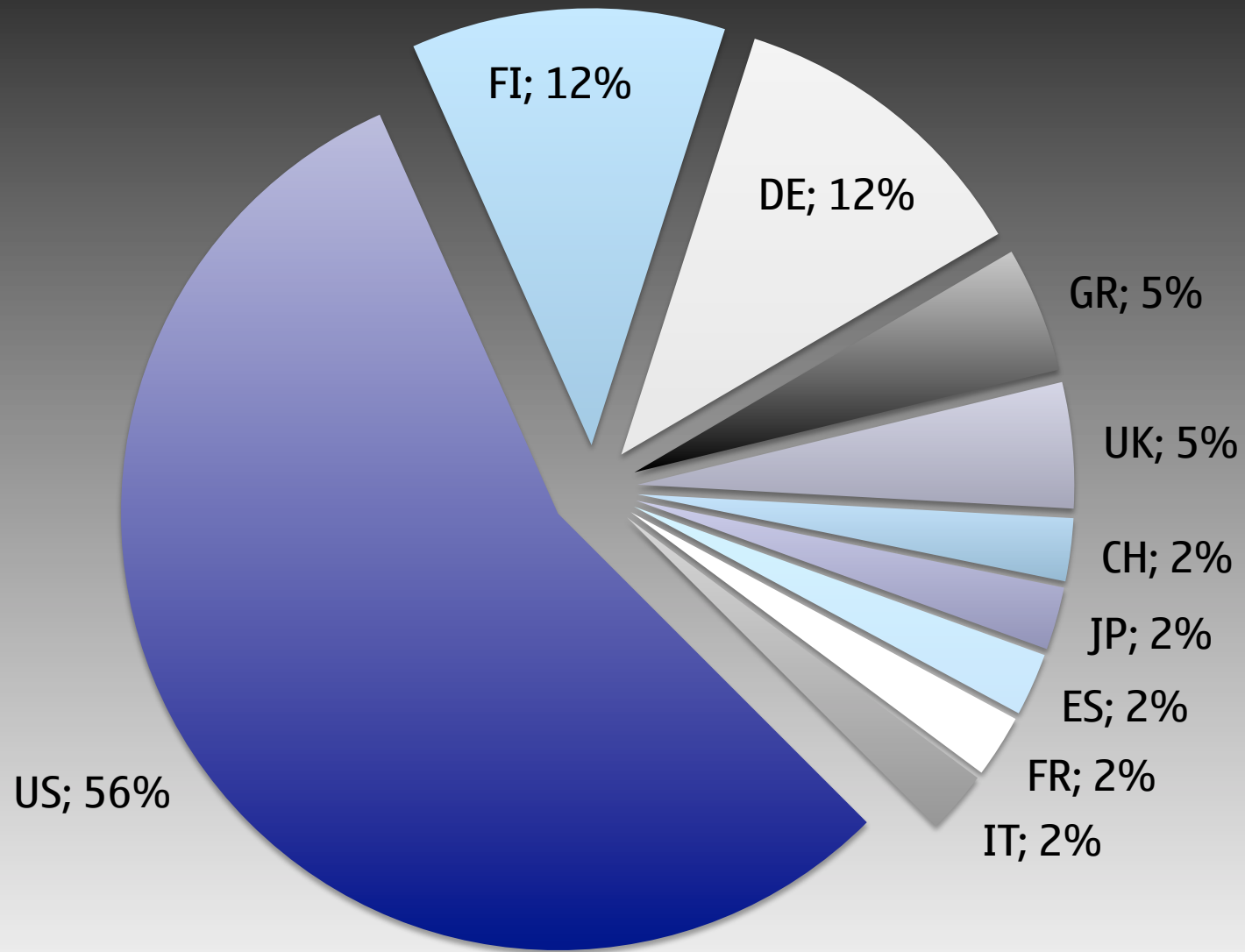
assigned to 4 TPC members each

171 total reviews

avg. review ~1500 characters

accepted 13 out of 48 = ~27%

# Author Breakdown – Accepted Papers



# Program Change!

## Old Program

Session 1: Data Transport

*Break*

Session 2: Architectural Concepts

*Lunch*

Session 3: Operational Aspects

*Break*

Session 4: Routing

*Break*

Session 5: Network Management

## New Program

Session 1: Data Transport

*Break*

Session 2: Architectural Concepts

*Lunch*

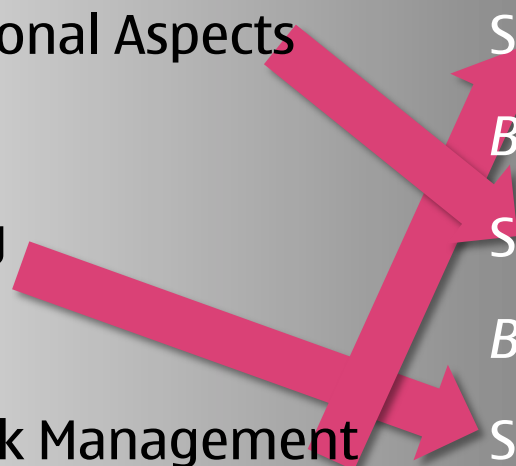
Session 3: Network Management

*Break*

Session 4: Operational Aspects

*Break*

Session 5: Routing



# Program

**Welcome**

**9:00 – 9:05**

**Keynote:** *Rethinking the Control Architecture  
of the Internet*

**9:05 – 10:00**

Mark Handley

**Session 1: Data Transport**

**10:00 – 10:50**

*VoCCN: Voice Over Content-Centric Networks*

Van Jacobson, Diana Smetters, Nicholas Briggs,  
Michael Plass, Paul Stewart, James Thornton,  
Rebecca Braynard

*Securing Web Content*

Joakim Koskela, Nicholas Weaver, Andrei Gurtov,  
Mark Allman



# Program

**Coffee Break**

**10:50 – 11:15**

**Session 2: Architectural Concepts**

**11:15 – 12:30**

Session Chair: Bengt Ahlgren

*Classifying Network Complexity*

Michael H. Behringer

*IP Version 10.0: A Strawman Design Beyond IPv6*

Kenneth Carlberg, Saleem Bhatti, Jon Crowcroft

*The Equilibrium of Discrimination in the Internet*

Matthias Bärwolff

**Lunch**

**12:30 – 13:30**

# Program

## Session 3: Network Management

13:30 – 14:45

Session Chair: Kenjiro Cho

*Co-Design Patterns for Embedded Network Management*

Dominique Dudkowski

*An Architecture for Network Management*

Karen Sollins

*Shared Versus Separate Networks: The Impact of Re provisioning*

Soumya Sen, Roch Guerin, Kartik Hosanagar

## Coffee Break

14:45 – 15:15

# Program

## Session 4: Operational Aspects

15:15 – 16:05

Session Chair: Börje Ohlman

*mPlane: An Architecture For Scalable Fault Localization*

Ramana Rao Kompella, Alex Snoeren, George Varghese

*NetServ: Dynamically Deploying In-network Services*

Suman Srinivasan, Jae Woo Lee, Eric Liu, Mike Kester, Henning Schulzrinne, Volker Hilt, Srinivasa Seetharaman, Ashiq Khan

## Coffee Break

16:05 – 16:20

# Program

## Session 5: Routing

16:20 – 17:35

Session Chair: Mark Handley

### *Understanding Incentives for Prefix Aggregation in BGP*

Costas Kalogiros, Marcelo Bagnulo, Alexandros Kostopoulos

### *HAIR: Hierarchical Architecture for Internet Routing*

Anja Feldmann, Luca Cittadini, Wolfgang Mühlbauer, Randy Bush, Olaf Maennel

### *LANES: An Inter-Domain Data-Oriented Routing Architecture*

Kari Visala, Dmitrij Lagutin, Sasu Tarkoma