

Sergey Gorinsky
IMDEA Networks Institute,
Spain

Welcome!

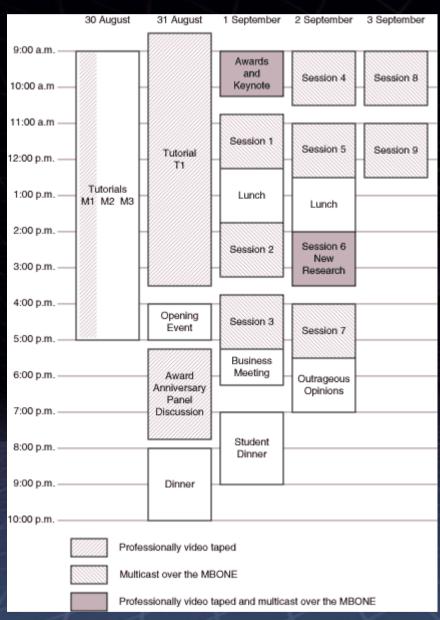


János Tapolcai Budapest University of Technology and Economics, Hungary

## Source of the idea: Lake Balaton, 3 years ago



## **SIGCOMM 1999 Program**



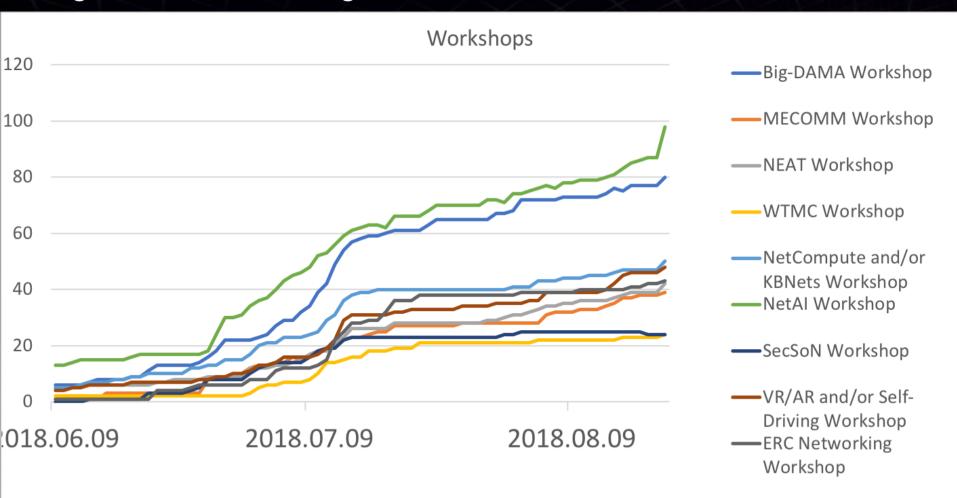
- Main conference
- Tutorials
- Outrageous opinions
- Dinner
- Open business meeting
- Student dinner

**SIGCOMM 1999 Student Dinner** 



## **SIGCOMM 2018: Workshops**

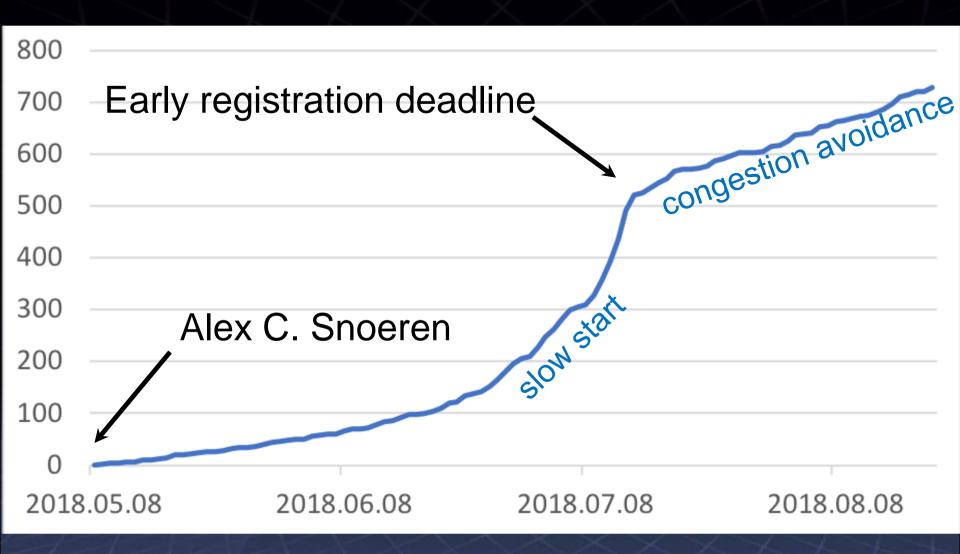
- 8 full-time and 4 half-time workshops
- Registrations: Al taking over SIGCOMM



## **Extra Events of the SIGCOMM 2018 Program**

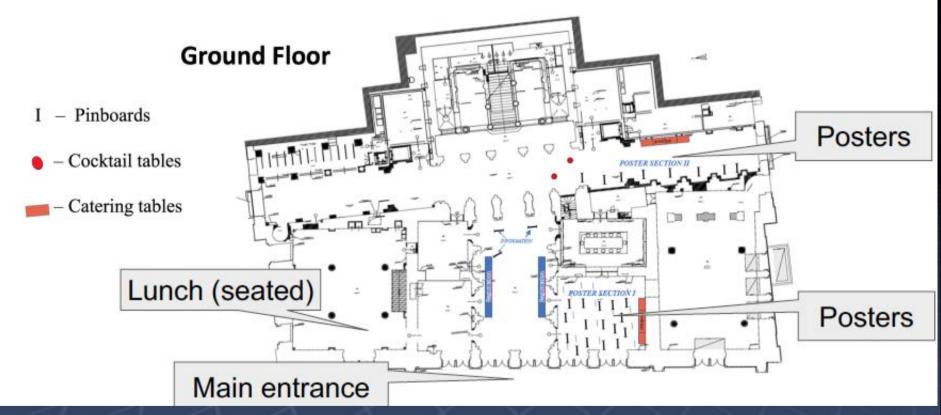
- Topic previews
- Industrial demos
- Posters and demos
- Student research competition
- Mentoring and one-on-one meetings
- Best of CCR
- (First ever) SIGCOMM hackathon on Saturday

## **Total Number of SIGCOMM 2018 Registrations**



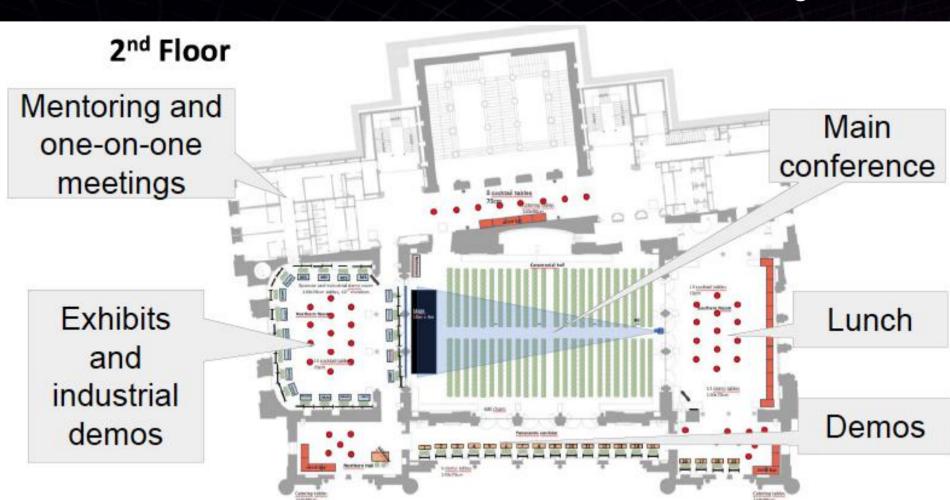
### Vigadó: Ground Floor

- Lunch distributed among 3 floors
  - Seated on the Ground Floor only, in the Restaurant
  - Lunch badges given out for pre-scheduling
- Posters in two spaces on the Ground Floor



## Vigadó: 2<sup>nd</sup> Floor

- Main-conference sessions
- Industrial demos, exhibits, demos, one-on-one meetings



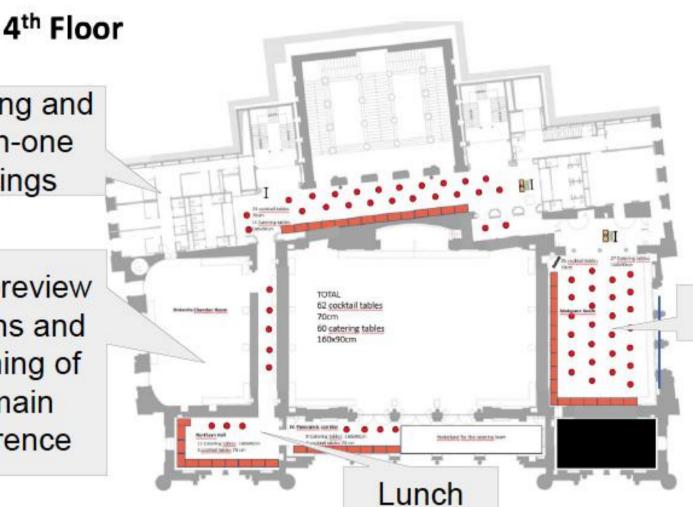
## Vigadó: 4th floor

• Topic previews, streaming, two special demos

Mentoring and

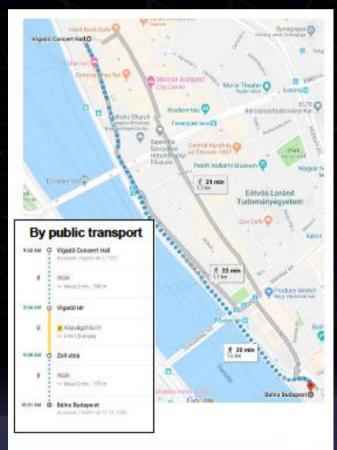
one-on-one meetings

Topic-preview sessions and streaming of the main conference



Lunch

#### **Student Dinner**



- Tuesday, 8:00 pm 11:00 pm
- Location: Bálna Building
- Free tickets: students, EC, OC, and PC members, sponsor representatives





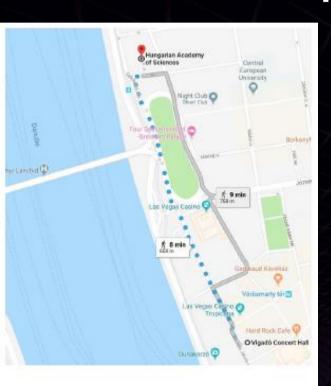


## **Banquet**

- Wednesday, 7:05 pm 11:00 pm
- Location: Vigadó Square, Pier 5, Európa Ship
- Európa Ship opens for boarding shotly after 7 pm and departs by 7:30 pm
- Don't miss the boat!

#### 13

### **N2Women Dinner**



- Thursday, 7:00 pm 10:00 pm
- Location: Akadémia Klub, Krúdy Hall (Hungarian Academy of Sciences)



### **Sponsors**



































**ACM SIGCOMM 2018** 

#### Thanks!

- OC members and student volunteers
  - Especially



K. K. Ramakrishnan



Levente Csikor



Zalán Heszberger



István Gódor



István Pelle

#### **Adhoc CARES Committee**

# Committee to Aid REporting on discrimination and haraSsment



Ellen Zegura ewz [at] cc.gatech.edu



Jennifer Rexford jrex [at] cs.princeton.edu



Craig Partridge craig.partridge [at] colostate.edu



Sujata Banerjee sujata.banerjee [at] acm.org

## **Message from the PC Chairs**

Mark Handley & Dina Katabi



### **Program Committee**

- 50 PC members
  - Single tier PC
  - Each personally reviewed on average 21 papers
  - Great mix of area of expertise, experience, and affiliation
  - Tried hard to get a good mix of gender, geography

#### **Review Process Overview**

- 222 papers submitted
  - 10% less than 2017, same as 2016
- Didn't have a separate experience track, but did have "experience paper" topic
  - Received 14 experience papers and accepted 3

#### **Review Process Overview**

#### Round 1

Papers received 3 reviews

109 papers progressed to round 2

#### Round 2

Papers received ~3 more reviews

#### Round 3

Papers that had high variance, or needed additional opinions received additional reviews

## **PC Meeting**

The whole PC met at MIT for 1.5 days

 We discussed 72 papers (out of the 109 that made it to round 2)

40 papers accepted

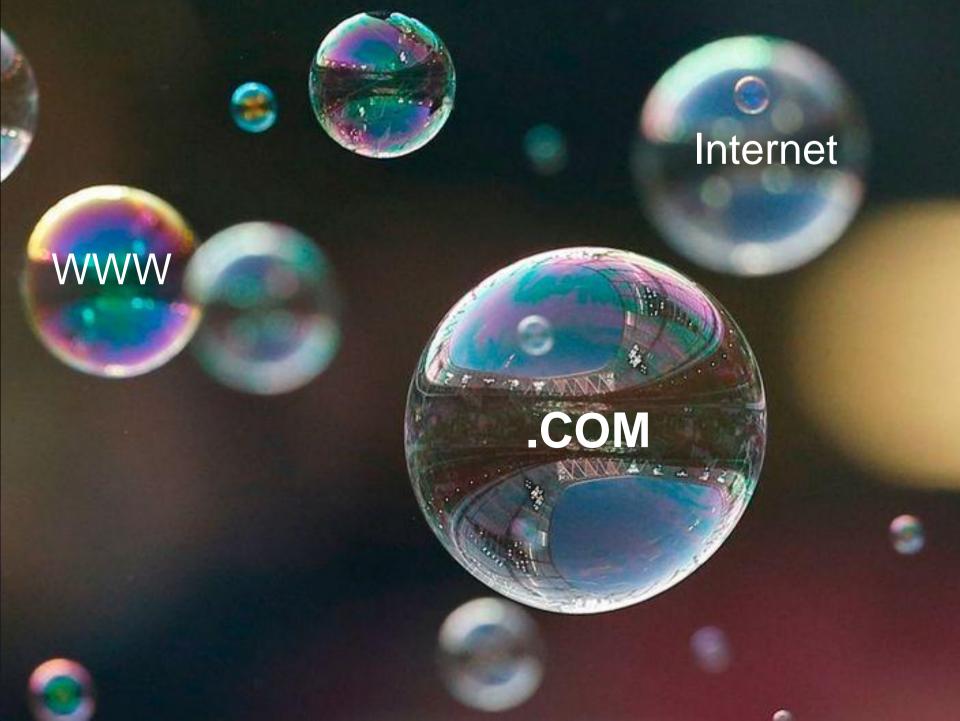
## What does Sigcomm'18 emphasize?

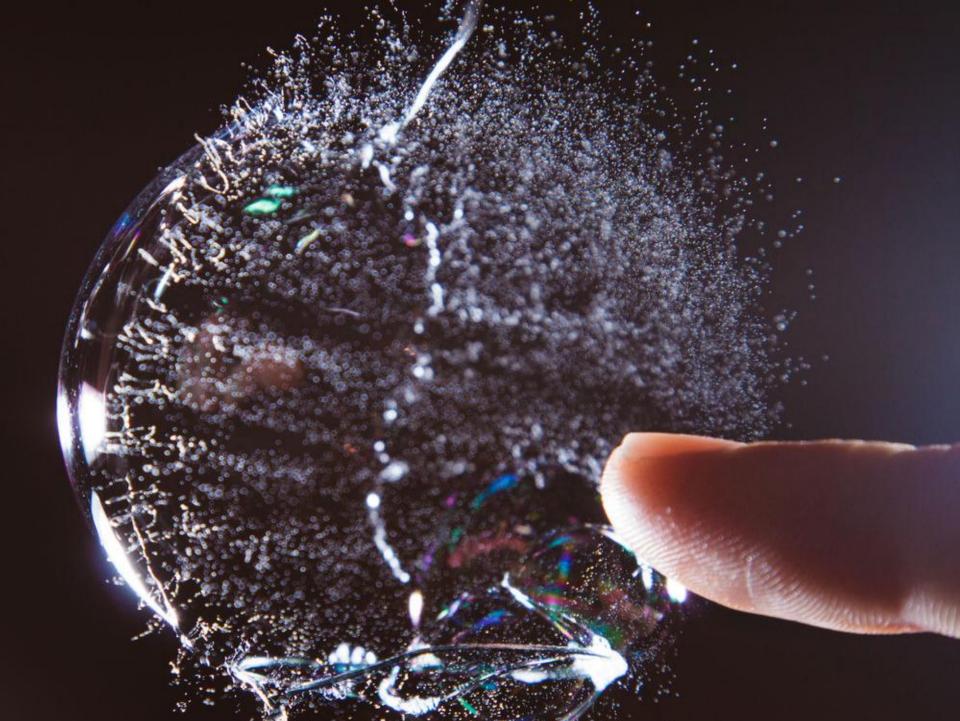
Important deep contributions

Daring novel ideas

Breadth of scope and inclusivity







## New topics kept the field hot!

Wireless





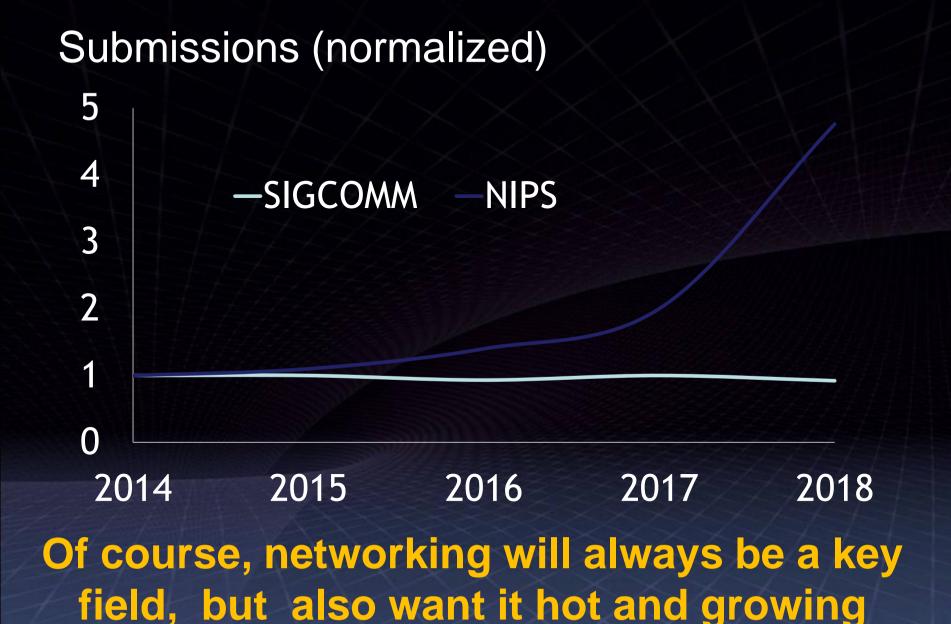
Data Centers

# The Rise of Machine



## Sigcomm 2017 Annual Report

"It appears that computer communication is no longer a 'hot' topic these days; the focus has moved to topics such as robotics, AI, big data, and deep learning"



## The Future

- We're still in early days of a connected world
- No-one knows what the future networked world will look like

 Sigcomm needs to push the envelope of what we know, believe, and are comfortable with

## The Role of Sigcomm

Communicate ideas that push the field of networking forwards faster, better, or in new directions

- Daring new ideas
  - Even if the initial version is not flawless
- Deeper understanding of fundamentals
- Cross-fertilization of ideas from the fringes



## **Best Paper Awards**

- PC voted on the Best Paper and Best Student Paper awards
- PC chair papers were not eligible

## **Best Student Paper Award**

#### Sincronia: Near-Optimal Network Design for Coflows

Saksham Agarwal (Cornell, USA),

Shijin Rajakrishnan (Cornell, USA),

Akshay Narayan (MIT, USA),

Rachit Agarwal, (Cornell, USA),

David Shmoys (Cornell, USA),

Amin Vahdat (Google, USA)

### **Best Paper Award**

#### **Inferring Persistent Interdomain Congestion**

Amogh Dhamdhere (CAIDA, USA),

David D. Clark (MIT, USA),

Alexander Gamero-Garrido (CAIDA, USA),

Matthew Luckie (Waikato, New Zealand),

Ricky K. P. Mok, (CAIDA, USA)

Gautam Akiwate, (CAIDA, USA)

Kabir Gogia (CAIDA, USA),

Vaibhav Bajpai *(TU Munich, Germany)*,

Alex C. Snoeren (UCSD, USA),

kc claffy (CAIDA, USA)



## Test of Time and Dissertation Awards

Dina Papagiannaki, Award Chair, ACM SIGCOMM

## 2018 SIGCOMM Test of Time Award

 A Scalable, Commodity Data Center Network Architecture (SIGCOMM 2008)

Mohammad Al-Fares, Alexander Loukissas, and Amin Vahdat

"This paper lucidly articulates a vision for what is today the standard structure of a data center network: commodity packet switches interconnected in a fat-tree topology. By posing and addressing practical challenges in data center networking, the authors drew attention to this thenemerging area, and propelled the community to consider the design of new networking techniques for the relatively 'green field' of the data center -- a research area that has flourished since."

 Committee: John Byers (Boston University, chair), Krishna Gummadi (MPI), Brad Karp (UCL), and Lili Qiu (University of Texas)

## 2018 SIGCOMM Test of Time Award

XORs in the air: practical wireless network coding (SIGCOMM 2006)
 Sachin Katti, Hariharan Rahul, Wenjun Hu, Dina Katabi, Muriel Médard, and Jon Crowcroft

"This paper's interdisciplinary team brought information-theoretic research on network coding to bear on the domain of wireless networks, with an ingenious new scheme for achieving capacity gains by jointly coding information from multiple flows into individual packets. This paper's design and implementation upended the networking community's understanding of limits on wireless capacity and ushered in diverse work on capacity improvement in the decade that followed."

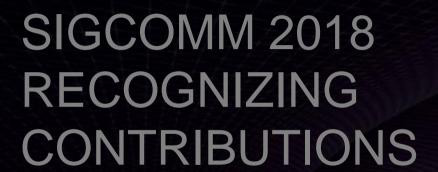
 Committee: John Byers (Boston University, chair), Krishna Gummadi (MPI), Brad Karp (UCL), and Lili Qiu (University of Texas)

## 2017 SIGCOMM Dissertation Award

Designing Fast and Programmable Routers
 Anirudh Sivaraman Kaushalram

"Sivaraman's dissertation makes pioneering and impactful contributions to the design and implementation of programmable routers that run at hardware line rates."

 Committee: Marco Mellia (Politecnico di Torino), T.S. Eugene Ng (Rice University, chair), Xiaowei Yang (Duke University), and Haifeng Yu (National University of Singapore)



Roch Guérin, Chair, ACM SIGCOMM



## Recognizing those who make it possible

- SIGCOMM 2018 General Chairs
  - Sergey Gorinsky
  - János Tapolcai
- SIGCOMM 2018 Program Chairs
  - Mark Handley
  - Dina Katabi

## Recognizing a lifetime of contributions

- 2018 ACM SIGCOMM Lifetime Achievement Award Recipient: Prof. Jennifer Rexford
  - For her fundamental and practical contributions to making the Internet more reliable and predictable, and for her outstanding mentoring and community service
    - Contributions to inter-domain routing, traffic engineering, network architecture, network programming, Internet measurements, software defined networking, and much more
    - Many previous recognitions: 2017 NCWIT Harrold and Notkin Award, Athena Lecturer award (2016), NAE member (2014), ACM Fellow (2008), SIGCOMM chair (2003-2007), ACM Grace Murray Hopper award (2004), Pyne Prize for service to Fox (1991), and numerous best paper and test-of-time awards
    - Co-author of "Web Protocols and Practice: HTTP/1.1, Networking Protocols, Caching, and Traffic Measurement," 2001, and co-editor of "She's an Engineer? Princeton Alumnae Reflect," 1993