

Asia Future Internet Forum Activities

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Overview

- AsiaFI is an Asia Future Internet research community
- Collaborates Future Internet Research in Asia
- Leadership from CJK
- Formed in December 2007
- www.asiafi.net
- discuss@asiafi.net

Goals

- Coordinates research on Future Internet among Asian countries, and with other countries
- Loose federation for tight international collaboration
- Currently focuses on education
- Fosters young researchers for future Internet research

Membership

- Individual membership open to the public
- Sponsoring organizations
 - AsiaFI signed MoUs with about 20 Universities in China (including Hongkong), Japan, Korea, and Thailand
 - such as Tsinghua Univ., Keio Univ., Seoul National Univ. , etc.

Organization

- General Assembly
 - decision making by community consensus
- Board: Chair - Jun Murai (JP)
 - develops long term plan
 - nominates SG Chair and Secretariat Director
- Steering Group- Chair: Kilnam Chon (KR)
 - technical leadership, inspired by IETF-IESG
 - Sec Director, WG chairs, at-large members
- Secretariat - Director: Jun Bi (CN)
 - administrative and operational support
 - co-directors: CS Hong (KR), Koji Okamura (JP)

Organization

- Committees
 - activity coordination
 - Testbed Committee
 - Education Committee
- Working Groups
 - research on specific research topics
 - Architecture and Building Blocks WG (Mother of all new WGs) - Chair: Mingwei Xu (CN)
 - Mobility/Wireless WG - Chair: Ted Kwon (KR)

Education Committee

- Responsible for FI educational programs
- FI related courses
 - semester courses development
 - one-week courses (biannual AsiaFI schools)
 - tutorials (1-2 day courses)
- Ph.D. program
 - Ph.D thesis committee sharing
 - student exchange programs
- Now, an *AsiaFI Student Advisory Group* working with WGs to organize schools

AsiaFI Schools

- Past AsiaFI Schools
 - 1st AsiaFI winter school, Seoul, Feb. 2008
 - 1st AsiaFI summer school, Jeju, Aug. 2008
 - 2nd AsiaFI winter school, Beijing, Jan. 2009
 - 2nd AsiaFI summer school, Jeju, Aug. 2009

AsiaFI Schools

- Future AsiaFI Schools
 - 3rd AsiaFI winter school, Seoul, Feb. 2010
 - 3rd AsiaFI summer school, Yokohama, Aug. 2010
 - 4th AsiaFI winter school, Hongkong, Feb.2011 (to be co-located with APAN/APRICOT meeting)
 - 4th AsiaFI summer school, Shanghai, Aug.2011
 - 5th AsiaFI winter school, Bangkok, Feb. 2012 (pending)
 - Are discussing to have longer summer school and shorter winter schools scheme

Testbed Committee

- Responsible for coordinating federation of testbeds
 - wired testbed
 - wireless testbed
 - planetlab testbed
- The committee was just created
- Working with APAN on testbed collaboration

Architecture WG

- Objective
 - gather the experience from current future Internet projects
 - bring out the requirements
 - discuss principles for Future Internet architecture design
 - layout the engineering of a new architecture

Architecture WG

- Scope
 - routing, forwarding, addressing, ID and locator
 - trust and security
 - network management
 - service and application management

Mobile/Wireless WG

- Objective
 - establish a forum for wireless and network mobility researchers to investigate key problems in the field for the future internet
 - establish a uniform testbed that researchers could use for experimentation as common tools, scenarios and methodologies.
 - longer-term goal is to become a catalyst for research in mobile/ wireless inter-networking for the future Internet.

Mobile/Wireless WG

- Scope
 - problems statement
 - secure and fast handover, route optimization
 - wireless mesh architecture
 - ad hoc network

Workshops

- 2008
 - Testbed Workshop during AsiaFI summer school, Jeju, Aug. 2008
 - Workshop on Fundamental Issues of Future Internet, during CERNET2008, Qingdao, Oct. 2008

Workshops

- 2009
 - Workshop on Future Internet for The Other Billions, 27th APAN, Kaohsiung, March 2009
 - Workshop on Trust and Security in the Future Internet (FIST), IEEE SAINT, Seattle, July. 2009
 - Testbed Workshop during AsiaFI summer school, Jeju, Aug. 2009
 - Workshop on Mobile Internet through Cellular Networks, ACM MobiCom, Beijing, Sep. 2009
 - The Future Internet Workshop, ACM AINTEC, Bangkok, Nov. 2009

Workshops

- 2010
 - Workshop on Identifiers in Future Internet (WIFI) during AsiaFI 2010 winter school, Feb 24
 - Future Internet Architecture Workshop during AsiaFI 2010 summer school, Aug.
 - Workshop on Trust and Security in the Future Internet (FIST10), planed to be an ACM CCS workshop.

Co-sponsored Conferences

- International Conference on Future Internet (CFI)
 - Seoul, June 2008
 - Seoul, June 2009
 - Seoul, June 2010

Remark/Issues

- International collaboration on research in Asia has more overhead than national activities. We should make AsiaFI effort more productive by focusing on some areas
- We may put high priority on educational activities in order to develop the top next generation researchers in Asia for future internet
- Many researchers don't know their peers' work in other countries, then it will be good to have workshops and build good human networks
- We may look into fair share on open research projects/testbeds on the future internet

Appendix 1: AsiaFI Participants

- 14 Countries
- 45 Institutions
- 150 Participants
- 110 Students

Appendix 2: AsiaFI 2008 Winter School Participants

- 4 Countries
- 20 Universities/Institutions
- 19 Students with Presentation
- 64 Participants(Students, Lecturers, Others)
- 133 Tutorial Participants(including Camp)

Appendix 3: AsiaFI 2008 Summer School Participants

- 7 Countries
- 25 Students with Presentation
- 55 Participants(Students, Lecturers, Others)
- 175 Tutorial Participants(including Camp)

Appendix 4: AsiaFI 2009 Winter School Participants

- 6 Countries
- 28 Students with Presentation
- 50 Participants(Students, Lecturers, Others)
- 100 Tutorial Participants(including Camp)

Appendix 5: AsiaFI 2009 Summer School Participants

- 6 Countries
- 19 Students with Presentation
- 51 Participants(Students, Lecturers, Others)
- 150~200 Tutorial Participants(including Camp)

Thank you!