



# Japanese - French Laboratory for Informatics (JFLI)

# 日仏情報学連携研究拠点

Philippe Codognet (CNRS / UPMC / University of Tokyo)

# History

- Talks started in 2004 between CNRS and Keio University for a joint lab on “Next Generation Networks”
- Several CNRS-JST collaboration projects on IT
  - call for proposals between 2006 and 2008
- Visit of CNRS directors in June 2007
  - Pierre Guillon & Veronique Donzeau-Gouge
- Sept 2007 – Sept 2008:  
negotiations for agreement between CNRS, UPMC, University of Tokyo, Keio University, NII

# Agreement and Signature Ceremony



December 2<sup>nd</sup>, 2008 @ NII

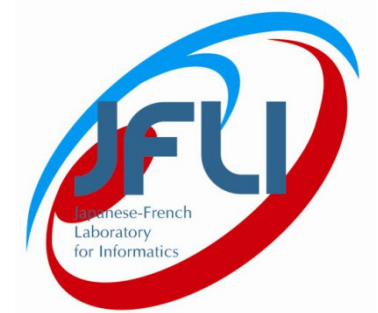
# Why JFLI ?



- To organize, strengthen and develop cooperation on IT between France and Japan
- To create a perennial structure smoothing the “n-year” project problem ...
- To have more “visibility” & unified framework e.g. for applications to funding agencies
- JFLI created on 2009/01/01 for 4 years, to be renewed after evaluation

# 5 Research Topics

based on existing F-J collaborations



- Next Generation Networks:
  - measurement and modeling, mobile networks, ad hoc networks, sensor networks, ambient intelligence & ubiquitous computing
- Grid and High-Performance Computing:
  - middleware for grids, large-scale grids, programming paradigms for next generation supercomputers, high-performance scientific computing
- Computer Security:
  - software verification and validation, formal methods, information security,
- Image and Multimedia:
  - Virtual Reality, interaction and interfaces, digital contents, programming paradigms
- Quantum Computing

# Scientific Leaders



- **Next Generation Networks**
  - Serge FDIDA (UPMC/ LIP6)
  - Jun MURAI (Keio University)
- **Grid and High-Performance Computing**
  - Serge Petiton (University of Lille / LIFL)
  - Ken MIURA (NII)
- **Computer Security**
  - Claude KIRCHNER (INRIA - Bordeaux)
  - Akinori YONEZAWA (University of Tokyo)
- **Images and Multimedia**
  - Stephane DONIKIAN (IRISA / CNRS / INRIA - Rennes)
  - Michitaka HIROSE (University of Tokyo)
- **Quantum Computing**
  - Miklos SANTHA (LRI / CNRS)
  - Kae NEMOTO (NII)

# French side ...



- Laboratoire International Associe' (LIA)
  - International Associated Laboratory - of CNRS
- Administratively , “virtual lab” of LIP6 (UMR7606)
- current cooperation within several CNRS labs
  - IRISA (Rennes)
  - LaBRI (Bordeaux)
  - LIFL (Lille)
  - LIP6 (Paris)
  - LRI (Paris)
  - LORIA (Nancy)
  - LSIIT (Strasbourg)
  - IRIT (Toulouse)
  - LSV (Cachan)
- But open to all CNRS labs

# Japanese side ...



- National Institute of Informatics
- University of Tokyo
- Keio University
  
- JFLI offices in each institution
  - to welcome foreign researchers
- Idea of “host professors” : people who are interested to collaborate with French teams

# JFLI Offices in Tokyo



← @ University of Tokyo (Hongo)



← @ NII

→ @ Keio (Mita)



# JFLI office in Paris - shared with



Laboratoire d'Informatique de Paris 6



LIP6 (8F)  
104, avenue  
du Président Kennedy,  
75016 Paris



Laboratoire d'Informatique de Paris 6  
104 Avenue du Président Kennedy 75016 Paris

# French researchers in Tokyo



- Philippe Codognet (co-director, CNRS/UPMC)
  - constraint solving, combinatorial optim., multimedia
- Bertrand Nouvel (post-doc) Sept 08 - Aug 10
  - computer vision, Image analysis
- Yves Caniou (ass. Prof /CNRS) Sept 09 – Sept 10
  - Grid Computing
- Thomas Silverston (post-doc) Oct 09 – Sept 11
  - IPTV, peer-to-peer networks
- 12/08- 6/09 : Marcelo Dias de Amorim (CNRS)
- Also short term visiting researchers

# Visiting Researchers



- Jan 09 – Mar 09 : Olivier Pasquet (IRCAM),  
JFLI@Keio
- Feb 09 – Mar 09 : 3 CNRS people, Quantum Computing,  
JFLI@NII
- Short stays (one week), JFLI@Todai
  - Serge Petiton (LIFL – CNRS / University of Lille)
  - Nahid Emad (Prism – CNRS/ University Versailles)

# Monthly Seminar



01/09: Marcelo Dias de Amorim (CNRS)

“User-centric location in wireless mesh networks”

02/09: Olivier Pasquet (IRCAM)

“Voice processing in music”

03/09: Damian Markham (CNRS / ENST)

“Quantum information processing over networks”

04/09: Serge G. Petiton (LIFL / CNRS)

“Toward Exascale Scientific Computation, Languages  
and Programming Paradigms”

# Kick-off Workshop



- **5/27**

**10:00 - 10:30 Presentation of the current status of JFLI**

*Jun Adachi (NII, JFLI co-director)*

*Philippe Codognet (CNRS/UPMC, JFLI co-director)*

**10:30 - 11:15 Topic 1 "Next Generation Networks"**

*Jun Murai (Keio University)*

*Marcelo Dias de Amorim (CNRS)*

**11:15 - 12:00 Topic 2 "Grid and High-Performance Computing"**

*Ken Miura (NII)*

*Serge Petiton (LIFL - CNRS/University of Lille)*

**12:00 - 14:00 Lunch**

**14:00 - 14:45 Topic 3 "Image & Multimedia"**

*Michitaka Hirose (University of Tokyo)*

*Stephane Donikian (IRISA - INRIA / University of Rennes / CNRS)*

**14:45 - 15:30 Topic 4 "Computer Security"**

*Akinori Yonezawa (University of Tokyo)*

*Claude Kirchner (INRIA / IMB/ LaBRI)*

**15:30 - 16:00 Coffee break**

**16:00 - 16:45 Topic 5 "Quantum Computing"**

*Kae Nemoto (NII)*

*Iordanis Kerenidis (CNRS)*

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**6:45 - 18:10 Presentation of new**

**French or Japanese labs willing to join JFLI**

*Kasumi Inoue (NII)*

*Helmut Prendinger (NII)*

*Shin'ichi Honiden / Levent Gurden (NII)*

*Zhenjiang Hu (NII)*

*LIG (Computer Science laboratory of University of Grenoble)*

*LIP6 (Computer Science laboratory of University Pierre et Marie Curie)*

**18:10 - 18:30 "Tools for bilateral cooperation"**

*Pierre Dauchez (Scientific Attaché, French Embassy)*

**19:00 - 20:30 Reception at NII Cafeteria (3<sup>rd</sup> floor)**

- **5/28**

**10:00 - 12:00 Separate sessions for each topic**

**12:00 - 14:00 Lunch**

**14:00 - 16:00 General discussion and decision on future actions**

# What can JFLI do for you ?



- Office spaces in each institution
- Can welcome French researchers  
(short stay or long stay)
- Can welcome Japanese researchers in Paris  
(short stay)
  
- Basic operational budget (from each partner)
- But no specific budget for personnel

# Funding ...



## 1. At JFLI level

JSPS core-to-core, JSPS ITP , ...

## 2. At topics level

- e.g. JST-CNRS program (now JST-ANR), or JSPS-CNRS
- Currently: “Image & Multimedia” until 2010, Quantum Computing until 2010, “NGN”: one JSPS-CNRS until 2011,

## 3. At individual/team level

- Individual researcher/team applying for funding
- Individual applying for JSPS or CNRS fellowship
- (French side) CNRS “delegation”