Cybersecurity France-Japan

Promoting and sustaining the cooperation
Funding opportunities

Cybersecurity France-Japan: Website
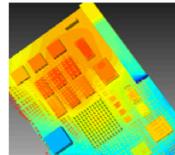
- Collaboration showcase

- Gives visibility to different WG

Cybersecurity France-Japan: WG web pages

- **WG1: Formal Methods**
- Working Group Leaders: Gergei Bana; Catuscia Palamidessi; Mitsu Okada
- Cryptographic Protocol Verification/ Privacy by Formal Methods

$\mathcal{S}$ **LOGIS**   **About**   People   Results   Publications   Meetings   Visits

LOGIS Logical and Formal Methods for Information Security

Ínria — INVENTORS FOR THE DIGITAL WORLD   Keio University   AIST NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY (AIST)   ENS CACHAN   JAIST JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY 1990

About the project

Numerous attacks have been found on cryptographic protocols that were long thought to be secure. Formal logic-based approaches to verify protocol security have helped to find such attacks; however, these approaches have limited applicability, in particular with respect to more powerful attackers as those modeled by computational complexity or those capable of detecting side channel leakage.

To solve this, our project aims at integrating the logical / formal approaches with (A) *complexity theory* and (B) *information theory*. The first direction aims at establishing the foundations of logical verification for security in the computational sense, with the ultimate goal of automatically finding attacks that probabilistic polynomial-time adversaries can carry out on protocols. The second direction aims at developing frameworks and techniques for evaluating and reducing information leakage caused by adaptive attackers.

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Cybersecurity France-Japan: Website

- **Collaborative Website** that can be **updated by all** members to keep it alive:

  -WG6 Workshop in France

Cybersecurity France-Japan
Scientific collaborations between France and Japan

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🏠 > Uncategorized > WG6 workshop January 26th and 27th 2017 in Gardanne and Cadarache (13, France).

WG6 workshop January 26th and 27th 2017 in Gardanne and Cadarache (13, France).
🗀 Uncategorized

Within **Working Group 6** framework, a two days workshop has been organized on January 26th and 27th 2017 in Gardanne a

Day 1 was dedicated to hardware security including :

• Presentation of system and architecture security labs

• Visit of the clean room and security labs

• Presentations coming from academics labs (Inria, CEA and EMSE).

Day 2 in Cadarache deal with cyber security :

• Cartography of French public research in cybersecurity

• Visit of CEA SCADA platform

• Presentations coming from industrial partners (Atos, Seclab)

Presentations:

NICT_YNU_2017

Allistene_2017

LHS-PEC_STM_OrangeLabs_2017

CEA_UVSQ_EMSE_2017

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Sustain the WG collaborations

Funding bilateral projects
- ✓ **CNRS** PICS International Programs for Scientific Cooperation
        JRP Joint Research Projects (PRC)
- ✓ **Inria - JSPS** AYAME Associate Teams
- ✓ **French Embassy** PHC SAKURA
- ✓ **JSPS** Open Partnership Joint Research Projects/Seminars

Funding students/researchers exchanges
- ✓ PhD
- ✓ Post-docs
- ✓ Senior Researchers
- ✓ Student Fellowships

From Japan to France : JSPS and French Embassy
From France to Japan : JSPS

Inria

Inria opportunities

Inria Associate Teams Program :
AYAME call for proposals

Inria Associate-Teams
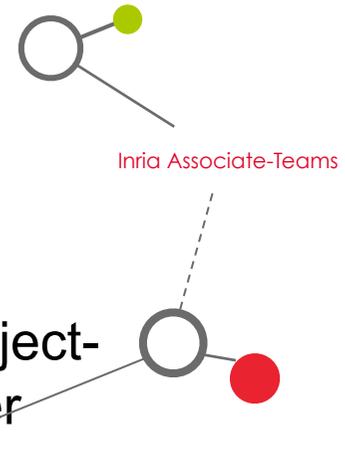
- **Jointly funded by Inria and JSPS** for a 3 years term
- **Annual call for joint research projects** between an Inria project-team and a japanese university/ research institution partner
- **Around 60.000 euros** funding per project

2017

1 on-going joint research project:
LOGIS
(Keio and Inria)
WG1

2017 Timeline

Japan: Call will be launched by JSPS by June 2017.
Deadline for submissions: **September 6th, 2017**
France: Call will be launched by Inria on June 28th.
Deadline for submissions: **September 27th, 2017**
Proposals have to be submitted to Inria and universities.

Mobility programs
Researchers Exchanges

France ->Japan

Sabbaticals
- *Supporting Inria scientists for a long research stay in a lab abroad*

EU programs
European Marie Curie Actions and ERC grants

Inria
International
Chairs
- *Hosting International scientists 12 months on 5 years*

Invited researchers
- *Inviting international scientists in one of the 8 Inria research Centers in France*

Japan -> France

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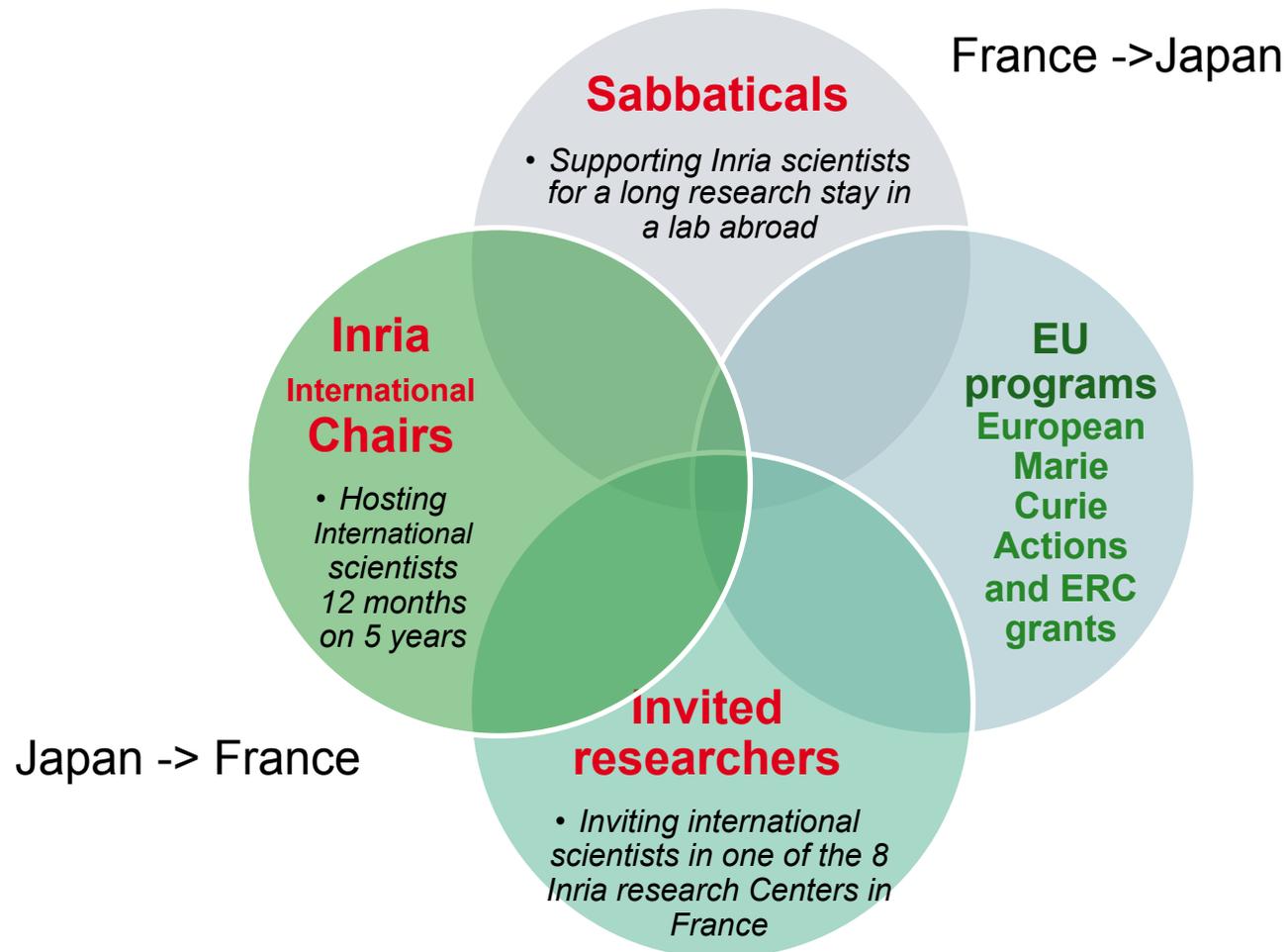
CNRS opportunities
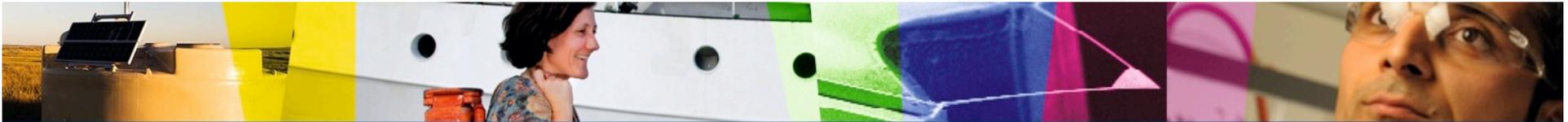
The CNRS plays a key role in global structuration & has developed a range of cooperative tools functioning on a competitive basis

Structuration

Excellence	
Structuring	
Prospective	

UMI
Mirror UMI
LIA
GDRI
PICS & JRP

International joint units + "Mirror" structures / joint units abroad (humanities & social sciences)
5+5 years

International associated laboratories
4+4 years

International research networks
4+4 years

International scientific cooperation projects / joint research projects
3 years

Inria

https://www.cnrs.fr/derci/

CNRS International cooperation tools

They are structured at multiple levels:

- **Joint Research Projects (PRC)** make it possible to set up co-financed collaboration between teams from the CNRS and specific international partners.

- **International Programs for Scientific Cooperation (PICS)** deal with financing initiatives between teams that have already established links through joint publications or student training programs.

- **International Associated Laboratories (LIA)** lay the bases of cooperation around a joint project, mostly between one or several French teams and a main partner abroad. They sometimes foreshadow the creation of an International Joint Unit.

- **International Research Networks (GDRI)** allow teams from two or more countries to collaborate on a joint scientific project.

- **International Joint Units (UMI)**, which are proper joint laboratories, have the same status as CNRS joint research units (UMR) in France. These UMIs are most often backed by one or several French laboratories, making up a "mirror UMI".

Inria

ANR opportunities

Generic call for proposals

Generic call for proposals : open to all scientific disciplines and types of research, from basic research through to applied research carried out in partnership with private companies, including SMEs.

International Collaborative Research Projects "PRCI" : ANR agreement with JST and MEXT

Selection procedure in two stages (5-page **pre-proposal**, then full proposal)
Key dates (for 2017):
- submission of pre-proposals: **October 2016,**
- Closing date for pre-registration of "International collaborative research projects" (PRCI): **October 2016**
- Closing date for submission of full proposals (for the coordinators invited to submit a full proposal and for the coordinators of the "International collaborative research projects" (PRCI)): **April 2017**

Inria

# Setting up European or International Scientific Networks (MRSEI)

To prepare the coordination of a proposal submitted to a large-scale European or international call for proposals. The projects must propose the construction of a network of a high scientific level on subjects of strategic importance and proposing actions having a major scientific, technological or societal impact.

Release date of the call (2016): Tuesday 19 April 2016
Deadline for submission of proposals: Monday 6 June 2016

Two calls announced in 2017

Expected funding per project: €30-50k in funding over an 18-month period.
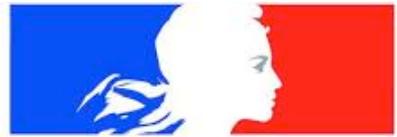
Diplomatic representations and other opportunities

French Embassy in Japan

■ **PHC SAKURA**, with JSPS : to foster new collaborations
  - Funding per year/project :6000 € (France) 1.000.000 yens
(Japan)
  - Call in june, deadline in september

http://www.jsps.go.jp/english/e-bilat/index.html

■ **French Government Grants**: Fellowship for Japanese
  students (Masters, PhD, Post-doc level).
  -Launched around June (annual basis)
  -Support for Japanese students or young researchers (10 -12
  months)

https://jp.ambafrance.org/Reglement-des-Bourses-du-Gouvernement-Francais-
Disciplines-Scientifiques

Inria

JSPS opportunities

Open Partnership Joint Research Projects/Seminars

- **What's this scheme for?** to conduct bilateral joint research projects or seminars with funded Japanese colleagues.

- **How does the scheme work?** Fund Japanese colleagues to participate to a joint research project or seminar

- **What expenses does the scheme support?** Supports the costs of the Japanese teams, mainly their travel and accommodations.
  - ✓ Joint Project (1-2 years) : Up to JPY 2,500,000 /a year/ a project
  - ✓ Joint Seminar (up to 1 week): Up to JPY 2,500,000 /a year/ a seminar

  Contact: nikokukan@jsps.go.jp

Core-to-Core Program: Advanced Research Networks

To create world-class research hubs in research fields considered to be cutting-edge and establish sustainable collaborative relations among research/education institutions in Japan and around the world.

- **Eligibility of Japanese applicants**

   (1) Japanese universities and research institutions or departments are eligible as a Japanese core institution.

   (2) A full-time researcher employed at the Japanese core institution who is appointed as a co-chair of the project.

- **Project Period:** 5 years

- **At least 2 countries outside Japan with matching funding**

Program for Advancing Strategic International Networks to Accelerate the Circulation of Talented Researchers (Japan -> France)

To foster excellent young Japanese researchers engaged in world-level international joint research.

- **Eligible Young Researchers**

   (1) Researchers and doctoral students affiliated with an eligible Japanese university or research institute (up to 45 years of age in principle)

   (2) Tenure of visits overseas: more than 1 year in principle

- **Project Period:** 1 to 3 years

International Programs for Individual Researchers (France -> Japan)

The "JSPS International fellowships for research in Japan" consists of two programs:

- **Postdoctoral Fellowships for Research in Japan** for young researchers

- **Invitation Fellowship for Research in Japan** for mid-career and senior researchers.

http://www.jsps.go.jp/english/e-inv_researchers/index.html

Deadlines: April 2017

European Union opportunities

General principles for H2020 participation of third countries

➢ General rule of at least 3 participants from 3 different EU Member States or Associated countries

➢ International cooperation is a cross-cutting priority in H2020, participation from non-european countries welcome
  ▪ Participation in any regular call of the H2020 programme
  ▪ Targeted openings
  ▪ Horizontal actions on international cooperation
  ▪ Coordinated calls

➢ Eligibility for H2020 funding: only in exceptional circumstances, industrialised and emerging economies can receive EU funding => no automatic EC funding
  ▪ existence of a bilateral agreement/arrangement
  ▪ identification of the country in the relevant work programme or call for proposal as being eligible for funding
  ▪ Participation deemed to be essential for carrying out the action

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Relevant calls 2017 on cybersecurity

➢ DS-06-2017: Cybersecurity PPP: Cryptography

Planned Opening: 8 Decembre 2016
Deadline: 25 April 2017
Research and Innovation Actions, TRL 3-5, Budget available: 20,5 M€ (projects 3-5 M€)

➢ DS-07-2017: Cybersecurity PPP: Addressing Advanced Cyber Security Threats and Threat Actors

Planned Opening: 1 March 2017
Deadline: 24 August 2017
Research& Innovation Actions (TRL 3-5, budget available: 10 M€, projects 2-3 m€), Innovation Actions (TRL 6-7, budget available: 8 M€, projects 4-5 m€)

➢ DS-08-2017: Cybersecurity PPP: Privacy, Data Protection, Digital Identities

Planned Opening: 1 March 2017
Deadline: 24 August 2017
Innovation Actions (TRL 6-7, budget available: 17,6 M€, projects 2-3 M€)

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Mobility through european programmes

Erasmus Mundus TEAM scholarship – cf Pr. Kadobayashi's talk

Marie-Skłodowska-Curie-Actions – Programme for transnational, intersectoral and interdisciplinary mobility with different types of actions, among which

✓ **Individual fellowships (IF): support for experienced researchers undertaking mobility between countries** (optionally to the non-academic sector) Next call MSCA-IF-2017 (Opening date: 11 April 2017, Deadline: 14 Septembre 2017)

✓ **International and inter-sectoral cooperation through the Research and Innovation Staff Exchanges (RISE)** Next call MSCA-RISE-2017 (Opening date: 1 Decembre 2016, Deadline: 5 April 2017)

Opening ERC teams to the world - with the aim to encourage young top scientists from non-european countries to join research teams of ERC grantees A specific agreement has been signed in 2015 between ERC and JSPS

Inria

Promote the global collaboration

Networks
- ✓ CNRS GDRI
- ✓ EU FP7 projects
- ✓ ANR MRSEI
- ✓ **Contribution to EUNITY**

Structured Lab
- ✓ UMI JFLI
- ✓ JSPS Core-to-Core program

Any other idea ?

Thank you

www.inria.fr