

# Cooperative Agreement

In the framework of the Memorandum of Understanding to promote academic cooperation between UNIVERSIDAD POLITÉCNICA DE MADRID, hereafter UPM, and BEIHANG UNIVERSITY, hereafter BUAA, the undersigned parties, Prof. Dr. José Fernán Martínez, deputy director of the UPM Group of Next-Generation Telematic Networks and Services, hereafter GRyS, and Prof. Dr. Xiong Zhang, director of Ecole Centrale de Pékin of BUAA, hereafter ECPkn, come to a cooperative agreement as stated below:

## 1. Field and Topics of Interest

To deeply and efficiently strengthen the short-term, mid-term and long-term cooperation between UPM and BUAA, we agree that the contents for student and academic exchange, cooperation and project application shall be chosen from the field of Computer Science, Networks, Telematic (Telecommunications and Informatics) Systems and Services, Smartcity, etc. The list of specific topics we agree in is collected in Annex I.

## 2. Student Exchange

2.1. We agree to promote the exchange of graduate, master and PhD students for short stays and project cooperation according to the *Sino-Español* and *Hispano-Chino* programs.

1. The intended duration of each exchange between BUAA and UPM shall be six months.
2. BUAA shall provide the cost of international travel and living for students whose destination is UPM and GRyS shall provide the cost of international travel and living for students whose destination is BUAA.
3. GRyS shall make its best efforts to provide BUAA students the suitable living and research conditions during their stay at UPM and BUAA shall make its best efforts to provide UPM students the suitable living and research conditions during their stay at BUAA.

**2.2.** We agree to promote the exchange of students for long stays for studying master and PhD according to the Spanish-government funded programs and/or Chinese-government funded programs or by means of founded research projects where GRyS and BUAA work together.

1. The intended duration of each exchange between BUAA and UPM shall be at maximum of four years.
2. GRyS shall make its best efforts to provide BUAA students the suitable living and research conditions during their stay at UPM and BUAA shall make its best efforts to provide UPM students the suitable living and research conditions during their stay at BUAA.
3. BUAA and GRyS shall promote research projects where were possible to send students to do Master and PhD.

### **3. Academic Exchange**

To enhance each other technical knowledge on the common topics of interest, we agree to promote academic exchange between UPM and BUAA.

1. BUAA shall invite UPM professors to visit China for academic exchange and UPM shall invite BUAA professors to visit Spain for academic exchange.
2. BUAA shall provide the cost of international travel and living for professors whose destination is UPM and GRyS shall provide the cost of international travel and living for professors whose destination is BUAA.
3. GRyS shall make its best efforts to provide BUAA professors the suitable living and research conditions during their stay at UPM and BUAA shall make its best efforts to provide UPM professors the suitable living and research conditions during their stay at BUAA.
4. BUAA and GRyS shall apply to promote the professors exchange to Spanish-government funded programs and/or Chinese-government funded programs or by means of founded research projects where GRyS and BUAA work together.



#### 4. Cooperation and Project Application

To foster technological cooperation between the Peoples's Republic of China and the Kingdom of Spain that shall enhance their citizens living conditions and welfare, we agree to cooperate and jointly apply to national and international projects.

1. UPM shall assist BUAA to develop international relationships with other universities and research institutes in Europe and BUAA shall assist UPM to develop international relationships with other universities and research institutes in China.
2. BUAA and UPM may organize jointly international conferences or workshops.
3. UPM and BUAA may publish papers jointly in international journals and conferences.
4. BUAA and UPM may act as contact points for Spanish and Chinese companies willing to introduce their products into the Chinese and Spanish markets.
5. BUAA and UPM may jointly apply to projects of the Sino-EU international cooperation program, China technological cooperation program, Spanish-government funded programs and Chinese-government funded programs.

#### 5. Duration, Revision and Termination of the Agreement

We both agree to review this Cooperative Agreement after two years following the date of signing, and acknowledge that this Agreement is subject to revision and termination at any time by mutual consent or by three months' notice by either party.

UPM: Prof. Dr. <b>José-Fernán Martínez</b> , Deputy Director, Group of Next-Generation Telematic Networks and Services, Universidad Politécnica de Madrid, Spain Signature:  Date: 26/10/2011	BUAA: Prof. <b>Xiong Zhang</b> , Director, Ecole Centrale Pékin, Beihang University P.R. China Signature:  Date: 2011-10-27
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*EUIT Telecommunications,  
Universidad Politécnica de Madrid*



Signature

Date:

29/10/2011

*Ecole Centrale de Pékin,  
Beihang University*



Signature

Date:

2011-10-27

## **ANNEX I. Topics of Interest**

This annex classifies a set of topic of interests, which represent research (areas) lines establishing the cooperation framework we agree in. This are described as follows:

- Next-Generation Telematic Networks and Services
- Ubiquitous - Pervasive Computing and Internet of Things
- Networks and Services Security
- Data Vitalization
- Wireless Sensor & Actuator Networks (WSN and WSAN).
- Embedded computing: Applications, networks and services for low capability devices
- Video Processing
- Content & Service Recommendation, Context Awareness
- Cloud Computing, Distributed Computing
- Distributed Applications and intermediation platforms
- Internet of Contents, Internet of Data, Internet of Things
- High performance and fault tolerant systems
- Telematic Services Software Engineering and Architectures
- Smartcity