



LABORATORIO NACIONAL DE INFORMÁTICA AVANZADA, A.C.

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First Workshop LAEMI Presentation

**Xalapa, Veracruz, Mexico
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1. LAFMI: Cooperation background

Since 1998, LANIA proposed to CONACYT and the French Embassy in Mexico, to start negotiations with the most important French academic institutions focused on Information Technologies (IT) in order to find effective mechanisms for promoting collaboration between each country while sharing common interests. LANIA was encouraged to lead the negotiations and, as a result, an agreement was signed with a four-year period to settle the creation of the French-Mexican Informatics Laboratory (LAFMI, Laboratorio Franco-Mexicano de Informática). The involved institutions for the Mexican side were CONACYT and LANIA, with the accordance of the Mexican International Relations Office (Secretaria de Relaciones Exteriores) and the support of the Mexican Embassy in France. On the French side the institutions involved were the *Centre National de la Recherche Scientifique (CNRS)*, the *Institut National de Recherche Informatique Automatique (INRIA)* and the *Université Joseph Fourier de Grenoble (UJF)*, with the accordance of the French Research Office, the French International Relations Office and the French Embassy in Mexico.

LAFMI is created with the primary objective of organizing cooperation between France and Mexico in a well focused strategic area, in the mutual interest of both countries, and with the objective to: 1) Promote research and development between the two countries, 2) Supporting bilateral training in human resources, 3) Strength graduate programs in Mexico, 4) Promote the creation of research networks and 5) Promote the implementation of quality bilateral projects, including enterprises participation.

LAFMI is conceived as a virtual laboratory between Mexico and France, with a set of research groups federation of more than 50 institutions and about 200 researchers involved. The project was conducted by Cristina Loyo, LANIA-Mexico and Michel Adiba, IMAG-France, with a Bilateral Scientific Committee, constituted as the Laboratory regulator, and consisting of 5 members from each country.

The cooperation established between France and Mexico through LAFMI generated a very positive impact on the Mexican IT community and encouraged a higher national academic competition that is reflected in the scientific quality of 23 projects approved in four bilateral calls from 2002 to 2005. The cooperation results up to 2007 are: 122 refereed publications, with an average productivity of 1.90 publications per year per Mexican researcher, and 36 prototypes developed. It is important to mention the outstanding participation in Mexico of Volkswagen Company and the National Institute of Cardiology in two of the approved projects.

The cooperation involved a total of 56 groups and academic institutions that formed three thematic networks working in the fields of: 1) Image and Robotics, 2) Database and Distributed Systems, and 3) Telecommunications. Also important was the impact on the human resources formation with 27 Phd students within the 23 research projects approved, and more than 700 graduate students trained in the 17 thematic schools, from 2000 to 2007, oriented to introduce them in a research field.

2. LAEMI: Proposal for a new cooperation framework

Based on the results obtained by the international cooperation in Information and Communications Technology (ICT's), within the French-Mexican Informatics Laboratory (LAFMI) framework, as well as the cooperation background with Spain and Germany, CONACyT decided to explore a novel cooperation program among Mexico and these three countries aforementioned. The new international cooperation program expect to set a similar framework mechanism to the one adopted in LAFMI, now called, European-Mexican Informatics Laboratory, **LAEMI (Laboratorio Euro-Mexicano de Informática)**.

In the first phase of the cooperation framework proposed, LAEMI should include three European countries: France, Germany and Spain, besides Mexico, in order to promote and organize scientific, technological and industrial relationships in ICT's, as well as to make a strategy for the inclusion of Mexico in projects with the European Union through the Seventh Framework Programmed (FP7).

Some of the specific aims within the LAEMI are: 1) to create and consolidate networks of excellence, 2) to encourage the creation of an innovative consortium, and 3) to elevate the training quality of specialized human resources.

The main functions of LAEMI will be described as follows:

1. To set up thematic networks of excellence among the four countries
2. To encourage the training of specialized human resources and to create cooperative graduate programs.
3. To promote the implementation of projects between Mexico and Europe
4. To introduce the concept of innovation in Mexican enterprises by promoting the formation of consortiums in order to present projects to the ICT-FP7.
5. To coordinate and manage the cooperation in ICT's among Mexico, France, Germany and Spain.

3. Proposal of the First Workshop LAEMI

As the first action according to the strategy creation of LAEMI, the First European-Mexican Workshop is being organized as to bring together around fifty senior researchers from the best research centers of each country.

3.1. Objectives

The objectives of the workshop are summarized in the following broad categories:

1. To encourage the formation of working thematic groups among Spain, France, Germany and Mexico, in order to establish a new cooperation framework that allows actions with a highest international impact on ICT's
2. To detect working group themes of common interest among the four countries, trying to align their research interests with the themes presented on the FP7.
3. To involve, since the beginning, enterprises located in Mexico and Europe in order to establish new partnership and cooperation points to ensure innovation in Mexican participant enterprises.
4. To promote the definition of the first common projects to start cooperation among Mexico and the three European countries involved.
5. To establish a strategy for the establishment of LAEMI as well as cooperation mechanism.



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As a result of this first workshop, and possibly a second one in Europe during 2008, the sign of LAEMI's cooperation agreement is expected. This agreement should allow researchers and enterprises from the aforementioned countries, during a period of two or three years, to interact each other better through joint collaborative actions. The aim is to obtain quality results to ensure the viability and success of their proposals to the calls of FP7, as well as to consolidate the formation of thematic networks and promoting human resource training among participant countries.

3.2. Steering Committee

The First LAEMI workshop is being organized in Mexico by LANIA, who coordinated the cooperation between France and Mexico within the LAFMI collaboration, in France by the Institut National de Recherche en Informatique et en Automatique (INRIA), who also participated in the cooperation agreement LAFMI; in Spain by the University of Castilla La Mancha (UCLM), and in Germany by the University of Technology in Berlin. All organizers are committed with the participation of the best institutions in their countries in the field of ICT's and in the topics of common interest.

3.3. Work Mechanism

The LAEMI workshop will be held in Xalapa, Veracruz, Mexico, from April 9th to 12th 2008, being hosted by LANIA. The schedule program, which is presented in chapter IV, includes lectures given by researchers from the four participant countries and representatives of the International Cooperation on ICT in the European Union, as well as working group sessions in which researchers will discuss projects related to the interests among Mexico and at least two of the three European countries.

4. Preliminary Program Schedule

First European-Mexican IT Workshop – April 9th-11th, 2008 Xalapa, Veracruz, Mexico

WEDNESDAY, APRIL 9 th , 2008		
09:00	10:00	Opening: Welcoming Remarks and Introduction
10:00	10:45	Keynote Speaker: <i>Dr. Jesús Favela</i> , Centro de Investigación Científica y de Educación Superior de Ensenada, CICESE, México
10:45	11:30	Keynote Speaker: <i>Dr. François Xavier Le Dimet</i> , INRIA Rhône-Alpes, France
11:30	11:45	Coffee Break
11:45	12:00	Working Groups Integration
12:00	13:30	Thematic Working Groups Meetings (In Parallel)
13:30	15:00	Lunch
15:00	17:00	Thematic Working Groups Meetings (In Parallel)
17:00	17:15	Coffee Break
17:15	18:00	Keynote Speaker: <i>Dr. Stefan Jaehnichen</i> , Technische Universität Berlin/FIRST - Fraunhofer President of Gesellschaft für Informatik, Germany
18:00	19:30	Preliminary Conclusions of Thematic Working Groups
20:30	-	Free Dinner

THURSDAY, APRIL 10 th , 2008		
09:00	11:00	Panel Session: Cooperation Mechanisms and Financial Support <i>Dr. Klaus Pendl</i> : ICT - European Commission ; <i>Eng. Agustín Segovia</i> : FONCICYT, <i>Dr. Luis Gil</i> : Human Resources and scholarships, CONACyT; <i>Dr. Neil Hernández</i> : NCP-ICT – Mexico ; <i>Dr. Michel Jambu</i> : INRIA - France ; <i>Dr. Joachim Steffen</i> : DAAD - Germany ; Spain (not yet defined)
11:00	11:15	Coffee Break
11:15	12:00	Keynote Speaker: <i>Dr. Mateo Valero</i> , Universidad Politécnica de Cataluña, UPC, Spain
12:00	13:30	Working Groups Meetings – Projects and Applications (In Parallel)
13:30	15:00	Lunch
15:00	17:00	Working Groups Meetings – Projects and Applications (In Parallel)
17:00	17:15	Coffee Break
17:15	17:45	Organization of the Mexican participation in the ICT 2008 Exhibition
17:45	18:45	Preliminary Conclusion of Project and Application Working Groups
20:30	-	Welcoming Dinner

FRIDAY, APRIL 11 th , 2008		
09:00	10:45	Summary of the Thematic as well as Projects and Applications Working Groups in the Framework of the future LAEMI
10:45	11:00	Coffee Break
11:00	12:30	Final Conclusions: Presentation by Groups
12:30	13:00	Conclusions by Country Participants
13:00	13:15	Speech by <i>M.B.A Juan Carlos Romero Hicks</i> , CONACyT's General Director
13:15	13:20	Closing Ceremony
13:30	15:00	Farewell Lunch (Everybody)

Arrival: Tuesday April 8th afternoon for the welcoming cocktail from 20:30 to 22:30 hrs. at LANIA.

5. Participants Groups

5.1 First day: thematic proposal groups

1. Network and hardware architectures
 - a. Network and Distributed systems
 - b. Mobile computing
 - c. Computer architectures
2. Computer systems
 - a. Software engineering
 - b. Databases and web computing
 - c. Mathematical modeling
 - d. Bio-informatics
3. Artificial Intelligence
 - a. Machine learning
 - b. Natural Language Processing
 - c. Soft computing
4. Image processing, and robotics
 - a. Image processing, and Robotics

5.2 Second day: Applications and projects definition proposal groups

1. Pervasive and Trusted Network and Service Infrastructures
 - 1.1. The Network of the Future
 - 1.2. Service and Software Architectures, Infrastructures and Engineering
 - 1.3. Secure, dependable and trusted Infrastructures
2. Cognitive Systems, Interaction, Robotics
 - 2.1. Cognitive Systems, Interaction, Robotics
3. Digital Libraries and Content
 - 3.1. Digital libraries and technology-enhanced learning
 - 3.2. Intelligent Content and Semantics
4. Towards sustainable and personalized healthcare
 - 4.1. Personal Health Systems for Monitoring and Point-of-Care diagnostics
5. ICT for Mobility, Environmental Sustainability and Energy Efficiency
 - 5.1. ICT for Intelligent Vehicles and Mobility Services
 - 5.2. ICT for Cooperative Systems
 - 5.3. ICT for Environmental Management and Energy Efficiency
6. Future and Emerging Technologies
 - 6.1. Pervasive adaptation
 - 6.2. Bio-ICT convergence

6. Invited Participants

6.1 Germany

No.	Name	Institution	Area
1	Avanes, Artin	Humbold University Berlin	Networks and Hardware Architectures
2	Bangemann, Thomas	Institut fur Automation und Kommunikation	Networks and Hardware Architectures
3	Burmeister, Rodger	Fraunhofer FIRST, Technische Universität Berlin	Computer Systems
4	Flor, Michael	Forschungszentrum Informatik (FZI)	Image processing and robotics
5	Freitag, Johann C.	Humbold University Berlin	Computer Systems
6	Jaehnichen, Stefan	Fraunhofer FIRST, Technische Universität Berlin	Computer Systems
7	Tapia, Ernesto	Freie Universitaet Berlin	Computer Systems
8	Zoellner, Marius J.	Research Centre for Computer Science Karlsruhe	Computer Systems

6.2 Spain

No.	Name	Institution	Area
1	Cortés, Ulises	Universidad Politécnica de Cataluña	Artificial Intelligence
2	Cuartero, Fernando	Universidad de Castilla La Mancha en Albacete	Networks and Hardware Architectures
3	García, José M.	Universidad de Murcia	Networks and Hardware Architectures
4	Llana, Luis	Universidad Complutense de Madrid	Computer Systems
5	Orozco, Luis	Universidad de Castilla La Mancha	Networks and Hardware Architectures
6	Pavón, Juan	Universidad Complutense de Madrid	Computer Systems
7	Peña, Anselmo	Universidad Nacional de Educación a Distancia	Artificial Intelligence
8	Puigjaner, Ramón	Universitat de les Illes Balears	Networks and Hardware Architectures
9	Quiles, Francisco	Universidad de Castilla La Mancha en Albacete	Networks and Hardware Architectures
10	Redondo, Luis	Metodos y Tecnologias	Computer Systems
11	Sierra, Carles	Instituto de Investigación en Inteligencia Artificial	Artificial Intelligence
12	Valero, Mateo	Universidad Politécnica de Cataluña	Networks and Hardware Architectures

6.3 France

No.	Name	Institution	Area
1	Ahuactzin, Juan M.	Probayes SAS	Image processing and robotics
2	Laugier, Christian	Inria Rhône-Alpes	Image processing and robotics
3	Le Dimet, François	INRIA Rhone Alpes	Computer Systems
4	Louchet, Jean	INRIA-SACLAY	Image processing and robotics
5	Miele, Vincent	INRIA Rhone-Alpes	Computer Systems
6	Perdiere, Guy	INRIA Rhone-Alpes	Computer Systems
7	Vargas, Genoveva	CNRS	Computer Systems

6.4 Mexico

No.	Name	Institution	Area
1	Acosta, Gabriel	Universidad Veracruzana, UV - Xalapa, Veracruz	Image processing and robotics
2	Andrade, Héctor	Instituto Tecnológico de Veracruz, ITV	Computer Systems
3	Ayala, Víctor	Universidad de Guanajuato, UGTO - Guanajuato, Guanajuato	Image processing and robotics
4	Benítez, Edgard	Laboratorio Nacional de Informática Avanzada, LANIA - Xalapa, Veracruz	Computer Systems
5	Benítez, Héctor	Universidad Nacional Autónoma de México, UNAM-IIMAS	Networks and Hardware Architectures
6	Camacho, Ilse	Instituto Potosino de Investigación Científica y Tecnológica A.C., IPICYT	Networks and Hardware Architectures
7	Campuzano, Gabriel	Instituto Tecnológico y de Estudios Superiores de Monterrey, ITESM - Campus Monterrey	Networks and Hardware Architectures
8	De la O, José A.	Universidad Autónoma de Nuevo León	Networks and Hardware Architectures
9	Díaz, Arturo	Centro de Investigación y de Estudios Avanzados, CINVESTAV-IPN, Tamaulipas	Networks and Hardware Architectures
10	Excelente, Cora	Laboratorio Nacional de Informática Avanzada, LANIA - Xalapa, Veracruz	Artificial Intelligence
11	Favela, Jesús	Centro de Investigación Científica y de Educación Superior de Ensenada, CICESE - Ensenada, Baja California	Networks and Hardware Architectures
12	Gelbukh, Alexander	Instituto Politécnico Nacional IPN	Artificial Intelligence
13	Fernández, Juan	Universidad Veracruzana, UV - Xalapa, Veracruz	Computer Systems
14	Hernández, Arturo	Centro de Investigación en Matemáticas, CIMAT - Guanajuato, Guanajuato	Artificial Intelligence
15	Hernández, Neil	Instituto Tecnológico y de Estudios Superiores de Monterrey, ITESM - Campus Estado de México	Artificial Intelligence
16	Mezura, Carmen	Universidad Veracruzana, UV - Xalapa, Veracruz	Networks and Hardware Architectures
17	Mezura, Efrén	Laboratorio Nacional de Informática Avanzada, LANIA - Xalapa, Veracruz	Artificial Intelligence
18	Montes, Manuel	Instituto Nacional de Astrofísica, Óptica y Electrónica, INAOE - Puebla, Puebla	Artificial Intelligence
19	Morett, Enrique	Universidad Nacional Autónoma de México, UNAM	Computer Systems
20	Murrieta, Rafael	Centro de Investigación en Matemáticas, CIMAT - Guanajuato, Guanajuato	Image processing and robotics
21	Ramírez, Fernando	Instituto Tecnológico Autónomo de México, ITAM	Networks and Hardware Architectures
22	Ramos, Víctor	Universidad Nacional Autónoma de México, UNAM	Computer Systems
23	Rodríguez, Francisco	Centro de Investigación y de Estudios Avanzados, CINVESTAV-IPN	Networks and Hardware Architectures
24	Sansores, Candelaria	Universidad del Caribe	Artificial Intelligence
25	Solís, Margarita	Instituto Jalisciense de Tecnologías de la Información, IJALTI	Computer Systems
26	Torres, José	Centro de Investigación y de Estudios Avanzados, CINVESTAV-IPN, Tamaulipas	Computer Systems
27	Urrutia, Jorge	Universidad Nacional Autónoma de México, UNAM-IMATE	Computer Systems
28	Villa, Luís	Instituto Politécnico Nacional IPN-CIC	Networks and Hardware Architectures
29	Zechinelli, José L.	Universidad de las Américas, UDLAP - Puebla, Puebla	Computer Systems

6.5 Private and Public Mexican enterprises

No.	Country	Name	Institution
1.	Cuernavaca	Reyes, Alberto	Instituto de Investigaciones Eléctricas, IIE
2.	Jalisco	Medina, Francisco	COECYJAL
3.	Mexico City	Hernández, Jorge	Sector Eléctrico, Miembro del ex-Comité Científico del LAFMI
4.	Mexico City	Rousselet, Julien	THALES
5.	Monterrey	Coronado, Manuel	Grupo OPEN, Miembro del exComité Científico del LAFMI
6.	Monterrey	Leal, Martha	Consultor, Miembro del ex-Comité Científico del LAFMI
7.	Monterrey	Soto, Gonzalo	WSS
8.	Monterrey	Safa, Guillermo	Consejo de Software de Monterrey
9.	Monterrey	López, Gerardo	TOWA
10.	Monterrey	Treviño, Blanca	SOFTTEK
11.	Monterrey	Rodríguez, Arnoldo	Grupo TCA
12.	Monterrey	Alvarez, Guillermo	Grupo TCA
13.	Monterrey	Ortiz, Hector	Cross Horizon
14.	Monterrey	González, Héctor	Kernel
15.	Monterrey	Siller, Andreina	PRACTUM
16.	Monterrey	Sánchez, Ignacio	ESSEI
17.	Monterrey	Ruíz, Eduardo	CANIETI
18.	Monterrey	Rodríguez, Alfredo	MEDIATEC
19.	Monterrey	Valdez, Oscar	Servicio de Consultoría en Informática Aplicada, SCAI
20.	Veracruz	Alcaraz, Víctor	COVEICYDET
21.	Veracruz	Placencia, Alejandro	ICAVE

6.6 Steering Committee

No.	Country	Name	Institution
1.	France	Jambu, Michel	Institut National de Recherche en Informatique et en Automatique, INRIA
2.	Germany	Jaehnichen, Stefan	Technische Universität Berlin/FIRST
3.	Mexico	Cervantes, Ofelia	Universidad de las Américas Puebla, UDLAP
4.	Mexico	Loyo, Cristina	Laboratorio Nacional de Informática Avanzada, LANIA
5.	Spain	Orozco, Luis	Universidad de Castilla La Mancha en Albacete
6.	Spain	Quiles, Francisco	Universidad de Castilla La Mancha en Albacete

6.7 Invited Observes

No.	Country	Name	Institution
1.	France	Bertrand de Hartingh	Embajada de Francia en México
2.	France	Vargas, Genoveva	Centre National de la Recherche Scientifique
3.	France	De Schuyter, Lyggie	Cónsul Honorario de Francia en México
4.	Germany	Steffen, Joachim	DAAD
5.	Germany	Sielemann, Friedo	Embajada de Alemania
6.	Mexico	Balderas, Gustavo	Secretaría de Educación del Estado de Veracruz
7.	Mexico	Parra, Ramón	Director General de Tecnología de Información, UV
8.	Mexico	Casal, Germán	Delegado de CDTI en México
9.	Mexico	Garza, David	Director de Investigación y Posgrados, ITESM
10.	Mexico	Carrera, Sergio	PROSOFT: Secretaría de Economía
11.	Mexico	Nieto, Jana	TECHBA: Secretaría de Economía
12.	Mexico	Vilchis, Leopoldo	Consejo Nacional de Ciencia y Tecnología, CONACyT
13.	Mexico	Aguilar, Guillermo	Consejo Nacional de Ciencia y Tecnología, CONACyT
14.	Mexico	Gil, Luis	Consejo Nacional de Ciencia y Tecnología, CONACyT
15.	Mexico	Segovia, Agustín	FONCICYT: European Commission & CONACyT
16.	Mexico	Torres, Rita	UEMEXCYT : European Commission & CONACyT
17.	Mexico	Flores, Rogelio	Fomento a las Empresas de la Nueva Economía
18.	Mexico	Centeno, Hannah	Vicerrectoría de Internacionalización, ITESM-Brusela
19.	European Union	Pendl, Klaus	ICT European Commission