



European Association on Antennas and Propagation

Laboratoire d'Electronique et
Electromagnétisme
Campus de Jussieu, Aile 65-66, 1er et 2ème
étages, Boîte courrier 252, 4 place Jussieu
75252 PARIS CEDEX 05, France



Web page:

<http://www.l2e.upmc.fr/en/index.html>

Contact: Prof. Aziz Benlarbi-Delai

Phone: +33.1.44.27.96.71

Fax:

E-Mail: aziz.benlarbi_delai@upmc.fr

Research Topics:

Propagation for BAN

Mm wave propagation

HF propagation

Laboratoire d'Electronique, SYstèmes de
Communications et Microsystèmes
Université Paris-Est Marne-la-Vallée - Cité
Descartes - Bât Copernic - 5 bd Descartes -
Champs-sur-Marne - 77454 Marne-la-Vallée
Cedex 2, France



Web page:

<http://esycom.u-pem.fr/>

Contact: Prof. Jean-Marc Laheurte

Phone: +33.1. 60 95 75 55

Fax: +33.1. 60 95 75 57

E-Mail: laheurte@univ-mlv.fr

Research Topics:

Simulation of Propagation channels by deterministic methods
Radio channel measurements for BAN, LTE and sensor networks
UHF RFID: Localization and singulation issues

Comments :

Laboratory splits into 3 groups

1/ Electromagnetism, applications and measurements

2/ Sensors and microsystems for measurements

3/ Communication systems

Other topics related to 1/

Tag designs for RFID

Numerical modelling for Electromagnetics(FDTD, FEM)

Antenna design from 13.56 MHz to 60 GHz

Energy harvesting

New architectures of RF front ends

Modelling of chaotic reverberation chambers



European Association on Antennas and Propagation

RF, Microwaves and Mm waves Group
Telecom Paris/Comelec, 19 place Marguerite
Perey, 91120 Palaiseau, France



Web page:

<https://www.telecom-paris.fr/en/research/laboratories/information-processing-and-communication-laboratory-ltci/research-teams/radio-frequency-microwaves-millimeter-waves>

Contact: Prof. Alain Sibille

Phone: +33.1.75.31.93.13

E-Mail: alain.sibille@telecom-paris.fr

Research Topics:

Statistical radio channel modeling
Propagation aspects of indoor wireless systems
Propagation for BAN and RFID
mm and THz propagation

Comments :

Specialization in joint antenna-channel statistical modeling



Télécommunication, Interférences et
Compatibilité Electromagnétique
USTL - TELICE, Bâtiment P3, F-59655,
Villeneuve d'Ascq, France



Web page:

<http://telice.univ-lille1.fr/>

Contact: Prof. Martine Liénard

Phone: +33.320337134

Fax:

E-Mail: martine.lienard@univ-lille1.fr

Research Topics:

Radio channel measurements

Radio channel parameter estimation

Radio channel modeling

Propagation for MIMO systems



DGA Maîtrise de l'information



DGA Maîtrise de l'information, BP 5 7419 –
35174 Bruz Cedex, France

Web page:

<http://www.defense.gouv.fr/dga/innovation2/recherche-technologie>

Contact: Dr. Thierry Marsault

Phone: +33.2.99.42.98.90

Fax: +33.2.99.42.97 26

E-Mail: thierry.marsault@intradef.gouv.fr

Research Topics:

Propagation for terrestrial military communications
systems



IETR UMR CNRS 6164

INSA Rennes

20 avenue des Buttes de Coësmes

CS 70839

35708 Rennes Cedex 7

Web page:

<http://www.ietr.fr/>

Contact: Prof. Ghais El Zein

Phone: +33.2 23 23 86 04

Fax : +33.2 23 23 84 39

E-Mail: Ghais.El-Zein@insa-rennes.fr

Research Topics:

MIMO and UWB channel sounding

MIMO and UWB channel modelling and characterization

Diversity techniques

Time reversal

Comments :

Applications for different wireless networks

(WMAN, WLAN, WPAN, WBAN)

and different frequency bands (up to 60 GHz)

SIRADEL

SIRADEL SAS

3, allée Adolphe Bobierre, CS 24343, 35043 RENNES cedex France

Web page:

<http://www.siradel.com>

Contact: Dr. Yves Lostanlen

Phone: +33 2 23 480 500

Fax : +33 2 23 480 599

E-Mail: yves.lostanlen@ieee.org

Research Topics:

Radio channel modelling and simulation

Interference mitigation technique modelling

Mesh network

Self Organizing network

Channel sounding and RF measurements



CSTB

Adresse : 24 rue Josphe Fourier 38400 saint Martin d'Hères

Web page:

www.cstb.fr

Contact: Dr. Francois Gaudaire

Phone: +33 (0)4 76 76 25 25 / + 33 (0)6 60 64 89 38

Fax : -+33 (0)1 64 68 89 38

E-Mail: francois.gaudaire@cstb.fr

Research Topics:

Radio propagation modelling and simulation

Electromagnetic field measurements

Measurement methods for building and material electromagnetic characteristics



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SILICOM

15 boulevard des chenes, 78284 GUYANCOURT, France



Web page:

<http://www.silicom.biz/fr>

Contact: Mr. Jacques Saint-Martin

Phone: +33.1.39.30.46.00

Fax:

E-Mail: jsaintmartin@silicom.fr

Research Topics:

Deterministic simulation tools for wireless communications propagation



European Association on Antennas and Propagation

Laboratoire d'Electronique, Signal,
Télécommunications et Propagation
Écoles de Saint-Cyr Coëtquidan - 56381 GUER
Cedex, France



Web page:

<http://www.st-cyr.terre.defense.gouv.fr/index.php/crec>

Contact: Dr. Jacques CLAVERIE

Phone: +33.2.90.40.40.34

Fax: +33.2.90.40.40.05

E-Mail: jacques.claverie@st-cyr.terre-net.defense.gouv.fr

Research Topics:

HF Propagation

Propagation for MIMO systems

Deterministic propagation channel modelling
(indoor, outdoor, WBAN,...)

Meteorological models and RF propagation



Telecom Bretagne

Web page:

<http://departements.telecom-bretagne.eu/mo/>

Contact: Dr. Patrice Pajusco

Phone: +33.2 29 00 14 62

Fax : +33. 2 29 00 13 43

E-Mail: patrice.pajusco@telecom-bretagne.eu

Research Topics:

MIMO channel sounding

Space time channel modelling

Radio planning

RF underwater and oversea communication

Wind Turbine influence

BAN

HF channel modeling



XLIM

Web page:

www.xlim.fr

Contact: Pr. Rodolphe VAUZELLE

Phone: +33.5 49 49 65 67

Fax : +33. 5 49 49 65 70

E-Mail: rodolphe.vauzelle@univ-poitiers.fr

Research Topics:

dynamic MIMO radio channel modelling and simulation in complex environments

deterministic and hybrid radio propagation modelling

radio channel characterization

radio channel sounding

radio channel emulation in controlled environment

On The Air techniques

mesh and ad'hoc networks applications (WSN, VANETS,...)



CITI

Laboratoire CITI, INSA Lyon , INRIA, Batiment Claude Chappe,
6 avenue des Arts, 69621 Villeurbanne

Web page:

<http://www.citi-lab.fr/>

Contact: Pr. Jean Marie Gorce

Phone: +33 4 72 43 64 15

Fax : +33 4 72 43 62 27

E-Mail: jean-marie.gorce@insa-lyon.fr

Research Topics:

wireless networks modeling and simulation

Indoor radio propagation modeling

Body area networks

multi-antennas systems

cognitive radio / software radio

Comments :

CITI Laboratory develops research activities

bringing together computer science,

networking, and digital communications

to address the challenging issues related

to the development of Internet of Things.

This world scale network offers a seamless

communication path between heterogeneous

nodes (persons,objects, sensors, phones,...)

in an heterogeneous architecture including wireless access,

offering mobility, ubiquity and adaptability.

ONERA
The French Aerospace Lab



Centre de Toulouse
2 avenue Edouard Belin, BP 74025
31055 Toulouse CEDEX 4, France

Web page:

<http://www.onera.fr>

Contact: Dr Laurent CASTANET, Head of Radio-Communication and Propagation research unit (RCP), Electromagnetics & Radar department

Phone: +33 5 6125 2729

Fax: +33 5 6225 2577

E-Mail: Laurent.Castanet@onera.fr

Research Topics:

Propagation for Satcom, GNSS, UAVs, terrestrial coms, radars, electronic warfare

Propagation experiments, propagation modelling, propagation effect mitigation

- Ionospheric propagation for GNSS and satellite links: frequencies < 5 GHz, from HF to C bands

- **Mobile propagation for Satcom and GNSS: centimetric frequencies, from UHF to Ka bands**

- Tropospheric propagation for Satcoms, Earth observation data downlinks, atmosphere remote sensing: high frequencies, from C to W bands

- **Terrestrial and low-altitude propagation for fixed and mobile telecommunications (and radar): all frequencies, from LF to V bands**

- Optical propagation for Satcoms, UAV and terrestrial links (Optical department: DOTA)

Comments :