



SECTION FRANÇAISE DE
L'UNION RADIO SCIENTIFIQUE INTERNATIONALE

COMITÉ NATIONAL FRANÇAIS DE RADIOÉLECTRICITÉ SCIENTIFIQUE

RAPPORT D'ACTIVITÉ 2006 / 2009

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MAI 2009

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- IC(2) Al Ghouwayel, Yves Louët, J. Palicot, "A Reconfigurable Butterfly Architecture for Fourier and Fermat Transforms", 4th Karlsruhe Workshop On Software Radios (Wsr'06) , Karlsruhe (Germany), March 22-23, 2006 .
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- IC(66) Yves Lostanlen, Grégory Gougeon, Serge Bories, & Alain Sibille *A deterministic indoor UWB space-variant multipath radio channel modelling compared to measurements on basic configurations*. EuCAP. Nice. 6-10 Nov. 2006
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COMMISSION D : ELECTRONIQUE ET PHOTONIQUE

Publications significatives

Le nombre de publications dans des journaux scientifiques à comité de lecture est très important, on ne donne ici qu'une **sélection de livres** édités par quelques membres correspondants.

Sélection de livres ou dossiers édités dans le cadre de la commission D

- O. BOUCHET, H. SIZUN, C. BOISROBERT, F. de FORNEL, P.-N. FAVENNEC, *Free space optics*, Wiley/ISTE, 214 pages, 2007
- H. RIGNAULT, J.-M. LOURTIOZ, C. DELALANDE, A. LEVENSON, *Nanophotonics*, ISTE, 317 pages, 2006
- J.-M. LOURTIOZ, *Photonic crystals*, 2nde édition enrichie, Springer, 514 pages, 2009,
- MOLITON, *Electronique et photoélectronique des matériaux et composants 1 : électronique des matériaux*, Hermès-Lavoisier, Collection TELECOM, 304 pages, 2008
- MOLITON, *Physique des matériaux pour l'électronique*, Hermès – Lavoisier, Collection TELECOM, 436 pages, 2007
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- MOLITON, *Applied electromagnetism and materials*, Springer, 346 pages, 2007
- F. de FORNEL, P.-N. FAVENNEC, *Mesures en électromagnétisme*, Lavoisier, Collection I2M, 232 pages, 2008
- P.-N. FAVENNEC, G. POULAIN, *Science, technologies et territoire*, Hermès – Lavoisier, 300 pages, 2008
- P.-N. FAVENNEC, *Communication et territoire*, Hermès – Lavoisier, Collection TELECOM, 300 pages, 2006
- BOUDRIOUA, *Optique intégrée*, Hermès - Lavoisier, 340 pages, 2006
- F. de FORNEL, New concepts for nanophotonics and nanoelectronics, 100 pages, C. R. Physique, tome 7, fascicule 1, 2008
- M. BELLANGER, P.-N. FAVENNEC, E. SPITZ, *Towards reconfigurable and cognitive communications*, 115 pages, C. R. Physique, tome 6, fascicule 7, 2006

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New concepts for nanophotonics and nanoelectronics

Sommaire :

Avant propos :

- 1- Photonic Crystals and metamaterials by Jean-Michel Lourtioz, IEF , Orsay
- 2- Propagation Constants of Guided Waves in Surface Plasmon Polariton Gap Waveguides Excited through an I-shaped Aperture by Kazuo Tanaka, Gifu University, Japan
- 3- Nano-manipulation of confined electromagnetic fields with a near-field probe by Benoît Cluzel, ICB, Dijon
- 4- Metamaterials for Applications in Microwave and Infrared Telecoms by Boubacar Kante, IEF, Orsay
- 5- Molecular-scale electronics by Dominique Vuillaume , IEMN, Lille
- 6- Influence of capacitive effects on the dynamic of a CNTFET by Monte Carlo method by Hugues Cazin d'Honinchtun, IEF, Orsay
- 7- Microwave Applications of Carbon Nanotubes: Nano-antennas and Nano-switches by Sébastien Demoustier , Thalès
- 8- From transistor to nanotube by Jean-Claude Boudenot , Thalès
- 9- Challenges and potentialities of new approaches for reliability assessment of nanotechnologies by Laurent Béchou, IXL, Bordeaux
- 10- Hybrid Bulk Heterojunction Solar cells based on blends of TiO₂ nanorods and P3HT by Johann Bouclé, Imperial College London, London

COMMISSION E : BRUITS ET BROUILLAGES ÉLECTROMAGNÉTIQUE

Ouvrages

- "Compatibilité électromagnétique : des concepts de base aux applications (2 volumes)", sous la direction de Pierre Degauque (Univ. Lille 1) et Ahmed Zeddam (FTR&D Lannion), [Collection Technique et Scientifique des télécommunications](#), [Hermes-Lavoisier vol.1](#) [vol.2](#), 2007
- "La compatibilité électromagnétique des systèmes complexes", Olivier Maurice (PSA), [Hermes-Lavoisier](#), 2007, ISBN 978-2-7462-1824-6

COMMISSION F : PROPAGATION DES ONDES ET TÉLÉDÉTECTION

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- P. PAJUSCO "Modèles de propagation pour les systèmes radio-mobiles"; Journées Scientifiques du CFNRS 2006 ; Paris ; 28-29 mars 2006.
- P. PAJUSCO and N. MALHOUROUX, "Relation entre canal de propagation et canaux virtuels MIMO, étude et expérimentation" Journées Scientifiques du CFNRS 2009 ; Paris ; 24-25 mars 2009.
- P. PAJUSCO, P. PAGANI, "Frequency Dependence of The UWB Indoor Propagation Channel," presented at Eucap, Edinbourg, 2007.
- G. EL ZEIN, "Emerging Wireless Access Technologies", 2nd IEEE International Conference on Information & Communication Technologies : From Theory to Applications, ICTTA'06, Damascus, Syria, April 24 - 28, 2006
- G. EL ZEIN, A. TOURIN, "Multiple-Input Multiple-Output, Ultra Wide Band and Time Reversal Methods in Telecommunications", International Summer School : Imaging, Communication, and Disorder, IMCODE'06, Institut d'Études Scientifiques de Cargèse, France, June 12-17, 2006
- Y. LE ROUX, P. LASSUDRIE-DUCHESNE (ENST Bretagne) & G. EL ZEIN (IETR), "Etude du canal de propagation et l'impact sur les systèmes de transmission et les systèmes de localisation". Conférence Invitée, "La navigation par satellite : Travailler en réseau pour réussir...", MEITO - ENST Bretagne, Technopôle Brest Iroise, 18 Janvier, 2007

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- L. RAKOTONDRAINIBE, G. ZAHARIA, G. EL ZEIN "Indoor Channel Measurements and Communications System Design at 60 GHz", XXIX General Assembly of the International Union of Radio Science (URSI), August 07-16, 2008, Chicago, USA
- G. EL ZEIN, H. FARHAT, Y. LOSTANLEN, R. VAUZELLE, Y. POUSET, "Characterization, Modeling, Simulation and Capacity of MIMO Transmission Channel", Journées Scientifiques CNFRS-URSI "Propagation et Télédétection", sous le Haut Patronage de l'Académie des Sciences, CNAM, Paris, 24 - 25 Mars, 2009
- J.-M. LAHEURTE, "Conception et caractérisation d'antennes pour des systèmes MIMO", Réunion générale du GDR Interférences d'Ondes - ENSTB Pessac, 21-23 novembre 2007.
- JM. LAHEURTE, "Diversity Measurements of a re-configurable antenna with switched polarization and patterns", APSYM 2006, December 14-16, 2006, Cochin, India.
- K. CHEHDI, « Imagerie Multi et hyperspectrale dans la gestion de l'environnement ». Séminaire organisé par le Secrétariat Commun du Programme Européen Interreg IIIB Espace Atlantique sur la gestion de la ressource en eau, 8 et 9 novembre 2006.
- B. VOZEL, K. CHEHDI, « Blind preprocessing of degraded images », WISPA (First Workshop on Visual Signal Processing and its Applications), Paris (2008).
- M. FING, Ondes, Information et renversement du temps, URSI-France, JS'09, 24-25 mars 2009
- G. EL ZEIN, H. FARHAT, Y. LOSTANLEN, R. VAUZELLE, Y. POUSET, « Caractérisation, modélisation, simulation et capacité du canal de transmission MIMO », URSI-France, JS'09, 24-25 mars 2009
- D. MASSONNET, « Application de l'interférométrie radar », URSI-France, JS'09, 24-25 mars 2009
- F. LE CHEVALIER, « Insertion des systèmes RF multifonctions (actifs et passifs) dans l'environnement », URSI-France, JS'09, 24-25 mars 2009
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- M. DECHAMBRE , « L'observation des surfaces continentales et océaniques par radars aéroportés et spatiaux », URSI-France, JS'09, 24-25 mars 2009
- T.J. TANZI, F. LEFEUVRE, « Apports des Radio-Sciences à la gestion des catastrophes », URSI-France, JS'09, 24-25 mars 2009
- L. CASTANET, "Rain Impairment Mitigation", EUCAP, Berlin, 2009

Liste des Comités scientifiques et autres assimilés (expertises...)

- G. EL ZEIN, Membre du Comité Scientifique des *Journées Scientifiques CNFRS-URSI "Vers des Radiocommunications Reconfigurables et Cognitives"*, sous le Haut Patronage de l'Académie des Sciences et de l'Académie des Technologies. Président de la Session "Propagation et Modèles", CNAM, Paris, 28 - 29 Mars, 2006.
- G. EL ZEIN, Membre du Comité de Lecture de "International Conference on Information & Communication Technologies : From Theory to Applications", ICTTA'06, Damascus, Syria, April 24 - 28, 2006. Tutorial & Invited Talk on "Emerging Wireless Access Technologies". Président de trois Sessions : "TEL08 : Digital Communications-Modulation-I-", "TEL13 : Mobile Communications & Cellular Networks" et "TEL19 : Communication Systems-IV-".
- G. EL ZEIN, Membre du Comité de Programme et du Comité de Lecture de "Manifestation des Jeunes Chercheurs francophones dans les domaines des STIC" (MajecSTIC '06), Lorient, 22 - 24 Novembre 2006.
- G. EL ZEIN, Membre du Comité de Lecture du "18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC '07)", Athens Hilton, Greece, 3-7 September 2007.
- M G. EL ZEIN, membre du Comité de Programme et du Comité de Lecture de "Manifestation des Jeunes Chercheurs francophones dans les domaines des STIC" (MajecSTIC '07), Caen, 29 - 31 Octobre 2007.
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- G. EL ZEIN, Membre du Comité Technique de "The 3^d International Conference on Information & Communication Technologies : From Theory to Applications" (ICTTA '08), Damascus, Syria, April 7 - 11, 2008.
- G. EL ZEIN, Membre du Comité de Lecture du "19th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications" (PIMRC '08), Cannes, France, 15-18 September 2008.
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- G. EL ZEIN, Membre du Comité Scientifique des *Journées Scientifiques CNFRS-URSI "Propagation et Télédétection"*, sous le Haut Patronage de l'Académie des Sciences, CNAM, Paris, 24 - 25 Mars, 2009. Conférence Invitée sur la "Caractérisation et la Modélisation du canal de propagation MIMO".
- G. EL ZEIN, Expert auprès de l'ANRT (Association Nationale de la Recherche et de la Technologie) Rapporteur sur des dossiers de recherche CIFRE (Conventions Industrielles de Formation par la Recherche).
- G. EL ZEIN, Expert auprès de l'ANR (Agence Nationale de la Recherche). Rapporteur sur des projets STIC (Sciences et Technologies de l'Information et de la Communication).
- M G. EL ZEIN, membre du Comité de Rédaction de l'« ietr.com ». Lettre d'information trimestrielle de l'IETR – UMR CNRS 6164.
- R. VAUZELLE, Chargé de mission par le Ministère des Affaires Etrangères dans le cadre d'un appui à l'Université de Tunis II.

- R. VAUZELLE, expert européen projet TEMPUS CD_JEP-31069-2003: mise en place d'une formation d'enseignement biotechnologique à l'institut supérieur de biotechnologie de Sfax (Tunisie)
- R. VAUZELLE, expert auprès de la Région Bretagne, de l'INRETS, de l'ANRT.
- G. EL ZEIN, Rapporteur de revues internationales :
 - o *IEEE Transactions on Communications*,
 - o *IEEE Transactions on Wireless Communications*,
 - o *IEEE Transactions on Antennas and Propagation*,
 - o *IEEE Geoscience and Remote Sensing Letters*,
 - o *IEE Proc. Microwaves, Antennas & Propagation*,
 - o *Radio Science*,
 - o *Comptes Rendus de l'Académie des Sciences (CRAS)*,
 - o *Annales des Télécommunications*.
- R. VAUZELLE, Rapporteur de revues internationales :
 - o *Annals of Telecom, elsevier*
 - o *Int. Journal of Modelling*
- J.P. WIGNERON, Membre du Comité Scientifique International & Président de session au RAQRS'06, Second International Symposium on "Recent Advances in Quantitative Remote Sensing", Torrent, Spain, 25-29 Sept. 2006.
- J.P. WIGNERON, Co Chairman à l'IGARSS-2007 dans les sessions orale "Passive Microwave Remote Sensing of Soil et Moisture I" avec Jasmeet Judge (Univ. Florida) et "Soil properties avec A. Monneris (Univ. Barcelona, UPC)"
- J.P. WIGNERON, membre expert du ESA category-1 Advisory Group, SMOS panel, 2007
- J.P. WIGERON, Membre du comité scientifique du colloque de la SHF, « Utilisation de l'imagerie satellite pour l'étude de l'eau au sol et dans le proche sous-sol », 193ème session du Comité Scientifique et Technique de la Société Hydrotechnique de France
- K. CHEHDI, Participation aux comités de programme des colloques internationaux suivants
 - o IEEE Int. Symposium on Signal Processing and its Application (ISSPA) IEEE/EURASIP, PARIS 2007
 - o IEEE International Conference on Signal Processing and Multimedia Applications (SIGMAP): 2006 / 2007/2008, 2009.
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 - 7-10 August, 2006, Lisboa, Portugal.
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- G. EL ZEIN, Membre du Conseil Scientifique du *GIS "TECHNET"* (Groupement d'Intérêt Scientifique IETR, INSA, UR1, ENSTB, SUPELEC, UBS, UBO, ENIB, ENSIETA, DGA).
- G. EL ZEIN, Membre du Conseil Scientifique et Technique du projet *CPER PALMYRE* (2001-2006) "Plate-forme de développement et d'évaluation de systèmes radioélectriques". Partenaires : LEST (MO-UBO, TAMCIC-ENST Bretagne), IETR (INSA, Supélec, Univ. Rennes 1) et LESTER (UBS).
- G. EL ZEIN, Membre du Comité Scientifique du *GDR 2253 IMCODE* (*Imagerie, Communication et Désordre*) – Co-animateur des deux thématiques "*Perception et Traitement de l'Information en Milieu Désordonné*" et "*Nouveaux Outils & Applications*".
- G. EL ZEIN, Membre correspondant du *CNFRS-URSI* (Comité National Français de Radioélectricité Scientifique – Section française de l'Union Radio Scientifique Internationale), rattaché aux *Commissions C (Signaux et Systèmes)* et *F (Propagation des Ondes et Télédétection)*.
- G. EL ZEIN, Membre du Comité de Suivi et d'Evaluation (CSE) du Pôle de Compétitivité « Images & Réseaux », Rennes, depuis le 01 Janvier 2006.

- G. EL ZEIN, Membre du Comité d'Evaluation CNRS - Département Ingénierie, du Laboratoire d'Electronique et des Systèmes de Télécommunications, (LEST - UMR 6165), ENST-Bretagne Technopole de Brest Iroise, 17 Janvier 2007.
- G. EL ZEIN, Membre du Comité de Pilotage du Projet "Techim@ges" (Futurs Réseaux Domestiques) – Pôle de Compétitivité « Images & Réseaux ». Partenaires : France Telecom Thomson R&D France, LEA, SIRADEL, BBs One, Acome, IETR, IREENA, ENSSAT, ENSTB. (2006-2008).
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- G. EL ZEIN, Membre du Comité Technique de "*The 3rd International Conference on Information & Communication Technologies : From Theory to Applications*" (ICTTA '08), Damascus, Syria, April 7 - 11, 2008.
- J. SAILLARD, Expert DGA dans le domaine « Ondes » depuis mars 2006
- J. SAILLARD, Vice président au CNU 63ème section depuis 2008
- J. SAILLARD, Membre de Comités de sélection pour le recrutement d'enseignants chercheur
- C. BOURLIER, Membre du comité scientifique des JNM depuis 2005
- C. BOURLIER, Membre du Comité d'experts de l'AERES pour l'évaluation du Laboratoire d'Océanographie Spatiale (LOS) de l'IFREMER, à Brest
- R. VAUZELLE, Membre du comité Scientifique, ou de programme, aux Workshops TAIMA (Traitement et analyse d'Images) à Hammamet depuis 2003
- R. VAUZELLE, Co organisateur des conférences SETIT en Tunisie, depuis 2003
- R. VAUZELLE, Co-organisateur d'une session à WMSCI'07 Orland
- R. VAUZELLE, Reviewer pour IEEE VTC, IEEE PIRMC, IEEE ECWT, SETIT
- R. VAUZELLE, Participation à des Groupements de Recherche : Ondes, STIC-Santé, MCS, ISIS
- R. VAUZELLE, Président du Groupe Régional Centre-Atlantique de la SEE (Société des Electriciens et Electroniciens et des technologies de l'information et de la communication) depuis 2007
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- J.P. WIGNERON, membre du comité éditorial de Remote Sensing of Environment, 2005-2009
- J.P. WIGNERON, sélectionné par l'ESA au sein de l'ESL SMOS (ESA Expert Support Laboratory) 2004-2009; structure portant l'expertise dans le développement de l'algorithme opérationnel d'inversion des observations SMOS
- K. CHEHDI, "*General Chair*" de la conférence AECRIS 2006 (Atlantic Europe Conference on Remote sensing Imaging and Spectroscopy), 11-12 September, Preston, UK, conférence supportée par IAPR (www.uclan.ac.uk/aecris).
- K. CHEHDI, *Organisation d'atelier*, 2^d Workshop on multispectral and hyperspectral imagery analysis, Aberystwyth, 8th and 9th March 2006.

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- C. PEREIRA, « Etude avancée des canaux de transmission radio en contexte MIMO: environnements complexes et couplage inter-antennes très large bande », Univ. Poitiers 2008.
- R. DELAHAYE , « Simulation réaliste et efficace de la couche physique pour l'aide au routage des réseaux ad'hoc », Univ. Poitiers juin 2007.
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Remerciements

H. Heddebaud, P. Wigneron (INRA, Bordeaux), J.M. Conrat (Orange Labs), J.C. Imbeaux (Orange Labs), P. Pajusco (ENST-Bretagne), G. El Zein (IETR, Rennes), R. Vauzelle (Université de Poitiers), C. Bourlier (Université de Nantes)) , M. Sylvain (Université de Marne La Vallée), K. CHEHDI (ENSSAT, Lannion) pour leur contributions respectives.

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COMMISSION H : ONDES DANS LES PLASMAS

Bibliographie non exhaustive

Afin de reporter l'activité de la commission H durant la période 2006-2009, il a été établi une liste bibliographique assez complète des différents correspondants (68 au total) de notre commission. Cette tache n'a pas été aisée et ne peut être complète. En particulier, la liste des livres et ouvrages n'a pu être faite dans des conditions optimales et seuls quelques ouvrages de références ont été reportés. Beaucoup d'autres ouvrages apparaissent dans la liste bibliographique mais n'ont pas été reporté ou mis dans cette section particulière.

De la même façon, il n'a pas été reporté les conférences invités et ceci, pour deux raisons, (i) d'une part faute d'informations fiables et complètes sur ces conférences, intitulées, dates et lieux pour chaque correspondants et d'autre part, leur nombres excéderaient le format de ce rapport.

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