

## Publications

**Liste classée des publications****Articles de revue internationale à comité de lecture**

- [1] F. Costa, C. Gautier, B. Revol, J. Genoulaz, and B. Demoulin, "Modeling of the near-field electromagnetic radiation of power cables in automobiles or aeronautics," *IEEE Transactions on Power Electronics*, accepted, available online, to be published, 2013.
- [2] P.-E. Levy, C. Gautier, F. Costa, B. Revol, and C. Labarre, "Accurate Modeling of Radiated Electromagnetic Field by a Coil With a Toroidal Ferromagnetic Core," *IEEE Transactions on Electromagnetic Compatibility*, accepted, available online, to be published, 2013.
- [3] C. Gautier, F. Adam, E. Laboure, D. Labrousse, and B. Revol, "Multicell Interleaved Converter with ICTs : dynamic balancing of currents," *European Journal of Electrical Engineering*, accepted, to be published, 2013.
- [4] D. Labrousse, B. Revol, C. Gautier, and F. Costa, "Fast Reconstitution Method (FRM) to Compute the Broadband Spectrum of Common Mode Conducted Disturbances," *IEEE Transactions on Electromagnetic Compatibility*, no. Cm, pp. 1–9, 2012.
- [5] C. Labarre, F. Costa, and C. Gautier, "Wiener filtering applied to magnetic near field scanning," *Progress In Electromagnetics Research*, vol. 96, pp. 63–82, 2009.
- [6] C. Labarre, P. Philippe, F. Costa, and C. Gautier, "Printed Circuit Board (PCB) model using the thin-wire method to compute conducted EMI in power electronics systems," *The European Physical Journal Applied Physics*, vol. 1998, no. 3, pp. 169–181, 1998.
- [7] F. Costa, E. Laboure, F. Forest, and C. Gautier, "Wide bandwidth, large AC current probe for power electronics and EMI measurements," *IEEE Transactions on Industrial Electronics*, vol. 44, no. 4, pp. 502–511, 1997.

**Conférences internationale à comité de lecture**

- [1] S. Hrigua, F. Costa, C. Gautier, and B. Revol, "New modeling method based on transfer functions for EMI analysis in power electronic converters," *International Symposium on Electromagnetic Compatibility - EMC EUROPE*, pp. 1–6, Sep. 2012.
- [2] C. Chastang, C. Gautier, A. Amedeo, and F. Costa, "Crosstalk Analysis of Multigigabit Links on High Density Interconnects PCB using IBIS AMI Models," in *IEEE Electrical Design of Advanced Packaging and Systems Symposium*, Taipei, Taiwan, 2012, pp. 226–229.
- [3] M. Ali, E. Labouré, F. Costa, B. Revol, and C. Gautier, "Hybrid Integrated EMC filter for CM and DM EMC suppression in a DC-DC Power converter," in *Integrated Power Electronics Systems (CIPS), 2012 7th International Conference on*, Nuremberg, 2012, pp. 4–9.
- [4] S. Hrigua, F. Costa, C. Gautier, and B. Revol, "New Method of EMI analysis in power electronics based on semiconductors transient models : Application to SiC MOSFET-Schottky diode," in *IECON 2012 - 38th Annual Conference on IEEE Industrial Electronics Society*, 2012, pp. 590–595.
- [5] C. Gautier, F. Adam, and E. Laboure, "EMC behavior of PWM inverter structure based on coupled interleaved cells using Intercell Transformers," in *Power Electronics and Applications (EPE 2011), Proceedings of the 2011-14th European Conference on*, vol. 1, 2011.
- [6] D. Labrousse, B. Revol, C. Gautier, and F. Costa, "Minimizing temporal simulation time to estimate common mode disturbances," in *Power Electronics and Applications (EPE 2011)*, vol. 1, 2011.

- [7] C. Chastang, C. Gautier, A. Amedeo, F. Costa, M. Brizoux, A. Grivon, and V. Tissier, "Electrical Behavior of Stacked Microvias Integration Technologies for Multi-gigabits Applications Using 3D Simulation," in *15th IEEE Workshop on Signal Propagation on Interconnects (SPI 2011)*, Naples, 2011.
- [8] A. Amedeo, C. Gautier, F. Costa, and L. Bernard, "Signal Integrity Ensured Through Impedance Characterization of Advanced High-Speed Design," *2009 20th International Zurich Symposium on Electromagnetic Compatibility*, pp. 249–252, Jan. 2009.
- [9] J. B. H. Slama, S. Hrigua, F. Costa, B. Revol, and C. Gautier, "Relevant parameters of SPICE3 MOSFET model for EMC analysis," *2009 IEEE International Symposium on Electromagnetic Compatibility*, pp. 319–323, Aug. 2009.
- [10] A. Guena, C. Labarre, C. Gautier, and F. Costa, "Unified technique in power electronics : the thin wire method," in *Proceedings of CEM 2002 - 4th International Conference on Computation in Electromagnetics*, vol. 2002, no. 3. IEE, 2002, pp. 73–73.
- [11] A. Guena, C. Labarre, C. Gautier, and F. Costa, "New developments techniques to model PCB in power electronic systems," in *13th conference on the Computation of Electromagnetic Field, July 2001, Lyon-Evian*, vol. 2001, no. 2, 2001, pp. 120–121.
- [12] C. Gautier, E. Labouré, F. Costa, P. Petit, and C. Labarre, "Influence of passive components stray behaviours on smps conducted electromagnetic interferences," in *EPE 1997*, Trondheim, 1997.
- [13] E. Laboure, C. Gautier, F. Costa, and W. Melhem, "Accurate simulation of conducted interferences," in *PESC 1996*, 1996, pp. 1973–1978.

## Conférences nationales à comité de lecture

- [1] F. Adam, C. Gautier, B. Revol, and E. Labouré, "Onduleur multicellulaire à ICT : équilibrage par la commande," in *Electronique de puissance du futur (EPF 2012)*, Toulouse, 2012.
- [2] P.-e. Lévy, C. Gautier, F. Costa, and B. Revol, "Mesure et modélisation des hétérogénéités de distribution du rayonnement magnétique des inductances toriques," in *CEM 2012, 16th symposium sur la compatibilité électromagnétique*, vol. 1, 2012.
- [3] L. Hoffmann, C. Gautier, F. Costa, and S. Lefebvre, "Caractérisation CEM d'une cellule de commutation à base de transistors Mosfet GaN," in *Electronique de puissance du futur (EPF 2012)*, Toulouse, 2012.
- [4] S. Hrigua, B. Revol, C. Gautier, and F. Costa, "Nouvelle méthode d'analyse des interférences électromagnétiques (IEM) dans les convertisseurs statiques 1," in *Electronique de puissance du futur (EPF 2012)*, Toulouse, 2012.
- [5] C. Gautier, A. Amedeo, and F. Costa, "Etude de la diaphonie dans les cartes numériques à haute densité d'intégration," in *CEM 2010, 15th symposium sur la compatibilité électromagnétique*, Limoge, 2010.
- [6] F. Adam, C. Gautier, B. Revol, and E. Labouré, "Modelisation cem d'un convertisseur électronique d'énergie hautes performances multi-cellulaire entrelace couple par transformateurs intercellules," in *CEM 2010, 15th symposium sur la compatibilité électromagnétique*, Limoge, 2010.
- [7] S. Hrigua, C. Gautier, B. Revol, and F. Costa, "Using of VHDL-AMS to model power semiconductors for EMI simulation," in *2EMC 2010. Workshop on embeded EMC*, vol. 1, Rouen, 2010.
- [8] A. Amedeo, C. Gautier, and F. Costa, "Maîtrise de l'intégrité de signal à travers la caractérisation d'une carte numérique rapide à forte densité d'intégration," in *CEM 2008, 14th colloque sur la compatibilité électromagnétique*, Saint-Malo, 2008.
- [9] B. Revol, F. Adam, C. Gautier, and F. Costa, "Modele generique de cables de puissance : une premiere approche vers une modélisation systeme," in *CEM 2008, 14th colloque sur la compatibilité électromagnétique*, Saint-Malo, 2008.

- [10] C. Gautier, A. Guena, and F. Costa, "Modelisation des fils de bonding utilises en electronique de puissance," in *CEM 2006, 13th symposium sur la compatibilité électromagnétique*, 2006.
- [11] C. Gautier, F. Costa, A. Guena, and C. Labarre, "Modelisation du circuit imprime pour la simulation oriente c.e.m. des convertisseurs de puissance," in *CEM 2002, 11th symposium sur la compatibilité électromagnétique*, 2002.