

CHADEBEC Olivier

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Name: Olivier Nicolas CHADEBEC
Birth date: March,18th 1973 (Sens, France)
Nationality: French
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Current position

Directeur de Recherche CNRS (CNRS Senior Scientist) at «Grenoble Electrical Engineering Laboratory » (G2ELab - UMR CNRS 5269, Univ. Grenoble Alpes, Grenoble INP), Grenoble, France

Education

- 2011 French « **Habilitation à Diriger les Recherches** » of Université Grenoble Alpes
Committee : F. Piriou (president), L. Nicolas (referee), J-P. Assumpção Bastos (referee), P. Massé (referee), G. Meunier, J-L. Coulomb.
- 2001 **PhD.** in Electrical Engineering (Grenoble INP, France)
Advisor: J-L. Coulomb, Committee: F. Rioux-Damidau (président et referee), L. Krähenbühl (referee), P. Penven, H. Henocq, J-L. Coulomb, G. Cauffet (with highest honour)
- 1997 **Engineer Degree** in Electrical Engineering (Grenoble INP, France)

Past positions

- 2015 – Directeur de Recherche CNRS (CNRS Senior Scientist), Grenoble Electrical Engineering Laboratory (G2ELab – Grenoble, France)
- 2012 –13 Invited reseacher at Universidade Federal de Santa Catarina (Florianopolis, Brasil)
- 2003 – 15 Chargé de Recherche CNRS (CNRS Scientist), Grenoble Electrical Engineering Laboratory (G2ELab – Grenoble, France)
- 2001 –03 Post-Doctoral Fellowship with Schneider Electric (Grenoble, France)
- 1998 –01 PhD at Laboratoire de Magnétisme du Navire (Grenoble, France).
Thesis title : « Immunisation en boucle fermée des navires à coque ferromagnétique » in collaboration with GESMA -DGA (Brest, France)

A – Scientific production

- Publications (scholar H-index : 23)
 - 98 international journal papers
 - 8 invitations in international conferences
 - 151 papers in international conferences
 - 4 patents
- Distinctions
 - PhD. Award of Grenoble INP (2001).
 - PhD. Award of Délégation Générale de l'Armement awarded by the French Minister of Defence and the French Minister for Higher Education and Research.
 - "Highly commended award 2005" of COMPEL (The International Journal for Computation and Mathematics in Electrical Engineering) for "Magnetization Identification Problem - Illustration of an Effective Approach".
 - "Best poster award" of CEFC 2004 (11th Biennial IEEE Conference on Electromagnetic Field Computation) for "Automatic Cuts for Magnetic Scalar Potential Formulation", Seoul, Korea.
 - "Best paper award 2009" of IEEE-ICONIC conference (4th International Conference on Electromagnetic Near-Field Characterization and Imaging) for "External Magnetic Anomaly Prediction of Double Hull Submarine from Internal Sensors Measurements", Taipei, Taiwan.
 - "Prêmio SBMag para os melhores artigos do MOMAG 2012" for "A hybrid method BEM-NRM for magnetostatic problems", Joao Pessoa, Brazil.
- CNRS research and doctoral supervision grants (PEDR) in 2010-2014, 2014-2018 & 2019-2023

B – Research supervision and teaching:

- Supervision :
 - (Co-)supervision of PhD thesis: 37 (28 defended)
 - Masters of Science: 26
 - Post-doctorates: 14
- Participation to PhD. Committee: 18 (4 as president, 11 as referee, 4 as member)
- Teaching at Univ. Grenoble Alps (Grenoble, France)
Oriented object programming concepts, modelling and optimization, computational electromagnetism, numerical methods.

C- Scientific responsibilities

- Participation to international conference steering committees
 - International steering committee of IEEE-CEFC (Conference on Electromagnetic Field Computation), 2019-...
 - International Steering Committee of IEEE-ICONIC (International Conference on Electromagnetic Near-Field Characterization and Imaging), 2009-2011
- Editorial activities

- Associate Guest Editor of IEEE Transaction on Magnetics (Volume: 57, Issue: 6, June 2021)
- Associate Guest Editor of IEEE Transaction on Magnetics (special issue on electromagnetic field computation, Compumag 2019)
- Guest Editor of IEEE Transaction on Magnetics (Volume: 51, Issue: 3, March 2015)
- Participation to conference editorial board
 - Track-chair of IEEE-CEFC'2020 conference (22-24 April, Pisa)
 - Track-chair and Advisory Committee member of Compumag'2019 conference (15-19 July, Paris)
 - Editorial co-Chair of IEEE-CEFC'2014 (16th Biennial IEEE Conference on Electromagnetic Field Computation), Annecy, France
 - Program committee member of ISEM'2017 (Chamonix, September 2017)
 - Member of the Compumag editorial board (since 2011)
- Cooperation with conference editorial boards
 - Numelec 2006, IEEE-CEFC 2006, OIPE 2006, IEMDC 2007, Numelec 2008, IEEE-CEFC 2008, Compumag 2009, IEEE-CEFC 2010, IEEE-ICONIC 2011, Compumag 2011, Compumag 2013, Compumag 2015, Compumag 2017, CEFC'2018

D – Projects

- Patents: 4
- Funded research (as responsible):
 - Scientific responsible of 20 research contracts: 17 with private fundings, 5 public fundings as partner (2 ANR, 1 H2020, 2 CCTP DGA)
- Softwares :
 - Author of MIPSE software (co-ownership Grenoble INP - CNRS – Université Grenoble Alpes) commercialized by Altair Engineering as a module of FLUX software.
 - Author of several softwares: Locapi (patented APP – licensing to Schneider Electric, DGA, DCNS), Locapi Navy (patented APP), Corons (patented APP – licensing to DGA)

E - Administration and responsibilities

- Responsible of “Models, Methods and Methodologies Applied to Electrical Engineering” research group (G2ELab) - ~40 people, 12 permanent researchers, 20 PhD students - (2014-...)
- “Micro & Nano Electronics - Electrical Engineering” scientific director of Grenoble INP (2017-2020)
- Responsible of Associated International Laboratory « James Clerk Maxwell 2 » (LIA CNRS 817) between France and Brazil (CNRS, Grenoble Institute of Technology, Université Grenoble Alpes, INSA Lyon, Ecole Centrale de Lyon, Université Claude Bernard Lyon I, CNPq, Universidade Federal de Minas Gerais, Universidade de São Paulo, Universidade Federal de Santa Catarina) (co-responsible in 2009-2015, responsible in 2015-2020)
- Member of IRT NanoElec steering committee (2018 -2020)

- Member CIME Nanotech council (2017-2020)
- Member of Grenoble INP scientific council (2007-2012)
- Member of the Grenoble Electrical Engineering Laboratory council (2007-2013)