

## Listes des publications communes aux laboratoires de l'institut Farman (2013-2018)

### Classement par projets

#### Projet HYDEM(SATIE/LMT) :

A. El Fellahi, M. Ferhat, T. Bore, K. Abahri, F. Benboudjema, E. Vourc'h, "Moisture Measurement for Green Civil Engineering Materials Using Dielectric spectroscopy", 12th International Workshop on Electromagnetic Nondestructive Evaluation, paper 77, Saclay, France, 2017.

#### Projet INVERSYM (LSV/SATIE) :

C. Cai, T. Bore, F. Delaine, N. Gasnier, R. Soulat and E. Vourc'h ,  
"3D reconstruction of surface cracks using bi-frequency eddy current images and a direct semi-analytic model"  
Journal of Physics: Conference Series, IOP Publishing ,Volume 904, 2017

E. Vourc'h, T. Bore, C. Cai, C., and R. Soulat.  
"Surface crack reconstruction from eddy current images using a direct semi-analytic model".  
Journal of Physics: Conference Series, Vol. 657, No. 1, IOP Publishing, 2015.

C. Cai, T. Bore, F. Delaine, N. Gasnier, R. Soulat, E. Vourc'h.  
"3D reconstruction of surface cracks using bi-frequency eddy current images and a direct semi-analytic model".  
Conference on New Computational Methods for Inverse Problems, NCMIP 2017, Cachan.

E. Vourc'h, T. Bore, C. Cai, and R. Soulat.  
"Surface crack reconstruction from eddy current images using a direct semi-analytic model".  
Workshop on New Computational Methods for Inverse Problems, NCMIP2015, Cachan.

#### Projet IDEFIX (LMT/SATIE) :

M. Daro Fall, O. Hubert, F. Mazaleyrat, K. Lavernhe-Taillard, A. Pasko.  
"A Multi-scale Modeling of Magnetic Shape Memory Alloys: Application to NiMnGa Single Crystal".  
IEEE Transactions on Magnetics, Institute of Electrical and Electronics Engineers 52, pp.1-4, 2016.

#### Projet SWITCHDESIGN (CMLA/LMT/LSV) :

A. Le Coënt, J. Alexandre dit Sandretto, A. Chapoutot and L. Fribourg. "An improved algorithm for the control of nonlinear sampled switched systems". Formal Methods in System Design, To appear.

A. Le Coënt, L.Fribourg,N. Markey, F. De Vuyst and L. Chamoin. "Compositional synthesis of state-dependent switching control". Theoretical Computer Science. To appear.

A. Le Coënt, L.Fribourg and J. Vacher. "Control Synthesis for Stochastic Switched Systems using the Tamed Euler Method". In ADHS'18, IFAC-PapersOnLine. Elsevier Science Publishers. To appear.

A. Le Coent, F. De Vuyst, C. Rey, L. Chamoin, L. Fribourg. "Control of mechanical systems using set based methods". International Journal of Dynamics and Control, 5(3):496-512, 2017.

F. De Vuyst, A. Le Coent, L. Chamoin, L. Fribourg. "Guaranteed stability control synthesis of coupled ODE-PDE switched systems". 3rd International Conference on Multiscale Computational Methods for Solids and Fluids, 2017

A. Le Coent, F. De Vuyst, L. Chamoin, L. Fribourg. "Guaranteed control synthesis of nonlinear switched systems using Euler method". 3rd International Workshop on Symbolic and Numerical Methods for Reachability Analysis, 2017

A. Le Coënt, J. Alexandre dit Sandretto, A. Chapoutot and L. Fribourg. « Control of Non Linear Switched Systems ». In SNR'16, pages 1-6. IEEE Computer Society Press, 2016.

A. Le Coent, L. Fribourg, N. Markey, F. De Vuyst, L. Chamoin, "Distributed synthesis of state-dependent switching control". Reachability Problems (RP 2016), Lecture Notes in Computer Sciences, Springer 9899, 119-133, 2016.

A. Le Coent, F. De Vuyst, C. Rey, L. Chamoin, L. Fribourg. "Guaranteed control of switched control systems using model order reduction and state-space bisection". Open Access Series in Informatics, 44:32-46,2015.

#### Projet SIMSURF (LURPA/LMT) :

M. Jachym, S. Lavernhe, C. Tournier, C. Euzenat, P.-A. Boucard, "Evaluation of the OptiX ray tracing engine for machining simulation" CAD'17, Okayama (Japan), pp. 138-142, 2017.

F. Abecassis, S. Lavernhe, C. Tournier, P-A. Boucard  
"Performance evaluation of CUDA programming for 5-axis machining multi-scale simulation". Computers in Industry, 71, pp. 1-9, 2015.

F. Abecassis, S. Lavernhe, C. Tournier, P.-A. Boucard  
"Performance Evaluation of CUDA programming for machining simulation". International Conference on Graphics Engineering, Madrid (Spain), 2013.

#### Projet MOSTRA (LMT/LURPA) :

L. Dubreuil, J.-E. Dufour, Y. Quinsat, F. Hild.  
"Mesh-Based Shape Measurements with Stereocorrelation". Experimental Mechanics 56 (7), 1231-1242

#### Projet MIOA (LMT/SATIE) :

M. Ruellan, H. Park, N. Martaj, R. Bennacer, E. Monmasson. "Modeling of a Building System and its Parameter Identification". Journal of Electrical Engineering and Technology, 8 (5), pp.975-983,2013.

M. Ruellan, H. Park, N. Martaj, R. Bennacer, E. Monmasson.  
“Generic thermal model of electrical appliances in thermal building: Application to the case of a refrigerator”. *Energy and Buildings* 62, Elsevier, pp.335-342, 2013.

Projet BONELABS (LMT/LBPA) :

E. Budyn, M. Bensidhoum, N. Gaci, B. Cinquin, P. Tauc, E. Deprez, H. Petite.  
“Bone-on-chip to study mechanotransduction and ECM formation”.  
*European Cell and Materials Conference, TCES, vol. 32, Suppl. 4, p. 32, 2016.*

E. Budyn, M. Bensidhoum, S. Sanders, E. Schmidt, P. Tauc, E. Deprez, H. Petite.  
“Stem cell derived osteocytes in situ characterization in bone-on-chip”.  
*European Cell and Materials conferences, Manschester, UK, 2015.*

E. Budyn, M. Bensidhoum, T. Marsan, F. Mainnemaire, P. Tauc, E. Deprez, H. Petite.  
“How the morphology of progenitor and mature osteocytes contributes to their mechanotransduction”.  
*6th International Conference on Computational Methods for Coupled Problems in Science and Engineering, pp.566-575, 2015.*

E. Budyn, M. Bensidhoum, T. Marsan, F. Mainnemaire, P. Tauc, S. Sasnouski, E. Schmidt, E. Deprez, H. Petite.  
“Mechano-Transduction of Osteocytes in Live Allograft Bone Systems (LABS).”  
*Proceeding CMBE 2015, ZetaComputational Resources Ltd., vol. 1, p. 124-127, 2015.*

E. Budyn, M. Bensidhoum, S. Sanders, S. Sasnouski, P. Tauc, E. Schmidt, N. Roubier, D. Aubry, E. Deprez, H. Petite.  
“Live allograft bone systems to quantify osteocyte calcium response to mechanical load at successive differentiation stages”.  
*Medical Engineering Centres Annual Meeting and Bioengineering15, Vol. 1, p. 180, 2015.*

E. Budyn, Patrick Tauc, Morad Bensidhoum, Herve Petite, Eric Deprez.  
“Back to life: fresh osteocytes spreading their processes for optimum mechanotransduction near microdamage in dead bone”.  
*Medical Engineering Centres Annual Meeting and Bioengineering14, 1, pp.63-64, 2014.*

Projet TOPDYN (CMLA/LBPA) :

A. Allain, I.Chauvot de Beauchêne, F. Langenfeld, Y. Guarracino, E. Laine, and L.Tchertanov. “Allosteric Pathway Identification through Network Analysis from Molecular Dynamics Simulations to Interactive 2D and 3D Graphs”.  
*FaradayDisc.,DOI:10.1039/C4FD00024B.169, pp1-18, 2014.*

Chauvot de Beauchêne, A. Alain, N.Panel , E.Laine , A.Trouvé , P. Dubreuil and L.Tchertanov. “Oncogenic mutations of KIT receptor differentially modulate tyrosine kinase activity and drug susceptibility”. *PLOS Comput. Biol.;10(7), 2014.*

F. Langenfeld , Y. Guarracino, M. Arock, A. Trouvé and L.Tchertanov.  
“How intrinsic molecular dynamics controls intramolecular communication in Signal Transducers and Activators of Transcription Factor STAT5”. *PLOS ONE. 2015.*

Projet BOOST (LSV/SATIE) :

G. Feld, L. Fribourg, D. Labrousse, B. Revol and R. Soulat. “Correct-by-design Control Synthesis for Multilevel Converters using State Space Decomposition“. *In* FSFMA’14, Electronic Proceedings in Theoretical Computer Science 156, pp 5-16, 2014.

R. Soulat, G. Hérault, D. Labrousse, B. Revol, G. Feld, S. Lefebvre, L. Fribourg. “Use of a full wave correct-by-design command to control a multilevel modular converter”. Proc. 15<sup>th</sup> European Conf. on Power Electronics and Applications, Lille, France. IEEE Power Electronics Society, 2013.