Conference
Caldas, A.; Micaelli, A.; Grossard, M.; Makarov, M.; Rodríguez-Ayerbe, P. & Dumur, D.
New metric for wrench space reachability of multifingered hand with contact uncertainties
*IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM, Institute of Electrical and Electronics Engineers Inc.*, 2014, 1236-1242
url | doi

Conference
Castaño-Cano, D. b.; Grossard, M. & Hubert, A.
Multi-axis force sensing with pre-stressed resonant composite plates: An alternative to strain gauge force sensors
*IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM, Institute of Electrical and Electronics Engineers Inc.*, 2014, 1361-1367
url | doi

Article
David, O.; Russotto, F.-X.; Da Silva Simoes, M. & Measson, Y.
Collision avoidance, virtual guides and advanced supervisory control teleoperation techniques for high-tech construction: Framework design
*Automation in Construction, Elsevier*, 2014, 44, 63-72
url | doi

Article
El Khoury Moussa, R.; Grossard, M.; Boukallel, M.; Hubert, A. & Chaillet, N.
Modeling and control of a piezoelectric microactuator with proprioceptive sensing capabilities
*Mechatronics, 2014*
url | doi

Article
Lopez, T.; Chevaillier, P.; Gouranton, V.; Evrard, P.; Nouviale, F.; Barange, M.; Bouville, R. & Arnaldi, B.
Collaborative virtual training with physical and communicative autonomous agents
*Computer Animation and Virtual Worlds, 2014*
url | doi

Conference
Lopez, T.; Chevaillier, P.; Gouranton, V.; Evrard, P.; Nouviale, F.; Barange, M.; Bouville, R. & Arnaldi, B.
Collaborative virtual training with physical and communicative autonomous agents
*Computer Animation and Virtual Worlds, John Wiley and Sons Ltd, 2014, 25, 487-495*
url | doi

Article
Magistris, G.; Micaelli, A.; Evrard, P. & Savin, J.
A human-like learning control for digital human models in a physics-based virtual environment
*The Visual Computer, 2014*
url | doi

Article
Makarov, M.; Caldas, A.; Grossard, M.; Rodríguez-Ayerbe, P. & Dumur, D.
Adaptive filtering for robust proprioceptive robot impact detection under model uncertainties
Article
Fingertip finite element modelling - on choosing the right material property
*Computer Methods in Biomechanics and Biomedical Engineering, Taylor and Francis Ltd.*, **2014**, 17, 30-31
url | doi

Conference
Makarov, M.; Grossard, M.; Rodríguez-Ayerbe, P. & Dumur, D.
Comparison of two robust predictive control strategies for trajectory tracking of flexible-joint robots
*IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM, Institute of Electrical and Electronics Engineers Inc.*, **2014**, 1704-1709
url | doi

Article
Martin, J. & Grossard, M.
Design of a fully modular and backdrivable dexterous hand
url | doi

Article
Sylla, N. b.; Bonnet, V.; Colledani, F. & Fraisse, P.
Ergonomic contribution of ABLE exoskeleton in automotive industry
url | doi

Conference
Bakkali, M.; Lhémery, A.; Baronian, V. & Berthelot, F.
Guided wave propagation and scattering in pipeworks comprising elbows
url | doi

Article
Caire, F.; Granet, G.; Prémel, D.; Rubinacci, G.; Tamburrino, A. e. & Ventre, S.
The symposium project: Numerical modeling of a carbon on steel manufacturing benchmark case
url | doi

Article
Caire, F.; Prémel, D. & Granet, G.
Semi-analytical computation of a quasi-static field induced by a 3D eddy current probe scanning a 2D layered conductor with parallel rough interfaces
*International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014*
url | doi

Article
Chapuis, B.; Jenson, F.; Calmon, P.; Dicrisci, G.; Hamilton, J. & Pomié, L.
Simulation supported POD curves for automated ultrasonic testing of pipeline girth welds
*Welding in the World, Springer Verlag*, **2014**, 58, 433-441
**Article**
Costin, M.; Vabre, A. & Moch, L.
Measurement of the mass concentration of flowing powder by fast X-ray CT
*Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2014*
url | doi

**Article**
Doinikov, A.; Novell, A.; Calmon, P. & Bouakaz, A.
Simulations and measurements of 3-D ultrasonic fields radiated by phased-array transducers using the westervelt equation
*IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Institute of Electrical and Electronics Engineers Inc., 2014, 61, 1470-1477*
url | doi

**Conference**
Dominguez, N. b.; Reverdy, F. & Jenson, F.
POD evaluation using simulation: A phased array UT case on a complex geometry part
*AIP Conference Proceedings, American Institute of Physics Inc., 2014, 1581 33, 2031-2038*
url | doi

**Conference**
El Bakkali, M.; Lhémery, A.; Baronian, V. & Grondel, S.
A modal formulation for the propagation of guided waves in straight and curved pipes and the scattering at their junction
url | doi

**Article**
Ferrand, A.; Darmon, M.; Chatillon, S. & Deschamps, M.
Modeling of ray paths of head waves on irregular interfaces in TOFD inspection for NDE
*Ultrasonics, 2014*
url | doi

**Conference**
Ferrand, A.; Darmon, M.; Chatillon, S. & Deschamps, M.
Modeling of ray paths of head waves on irregular interfaces in TOFD inspection for NDE
*Ultrasonics, Elsevier, 2014, 54, 1851-1860*
url | doi

**Conference**
Ferrand, A.; Darmon, M.; Chatillon, S. & Deschamps, M.
Modelling of waves propagation on irregular surfaces using ray tracing and GTD approaches: Application to head waves simulation in TOFD inspections for NDT
url | doi

**Conference**
Fradkin, L.; Harmer, M. & Darmon, M.
Edge diffraction coefficients around critical rays
url | doi

**Conference**
Paraxial ray-tracing approach for the simulation of ultrasonic inspection of welds
*AIP Conference Proceedings, American Institute of Physics Inc., 2014, 1581 33, 529-536*
url | doi

**Conference**
Gardahaut, A.; Jezzine, K.; Cassereau, D. c. & Leymarie, N.
Simulation of ultrasonic wave propagation in welds using ray-based methods
url | doi

**Article**
Hassan, W. b.; Barre, S. & Legoupil, S.
Study of the behavior of vapor fraction in a turbopump inducer using an X-ray measurement technique
*Experiments in Fluids, Springer Verlag, 2014, 55*
url | doi

**Conference**
Iakovleva, E.; Chatillon, S.; Bredif, P. & Mahaut, S.
Multi-mode TFM imaging with artifacts filtering using CIVA UT forwards models
*AIP Conference Proceedings, American Institute of Physics Inc., 2014, 1581 33, 72-79*
url | doi

**Conference**
Lambert, J.; Rougeron, G.; Lacassagne, L. & Chatillon, S.
A fast ultrasonic simulation tool based on massively parallel implementations
*AIP Conference Proceedings, American Institute of Physics Inc., 2014, 1581 33, 1999-2006*
url | doi

**Conference**
Le Bourdais, F. & Marchand, B.
Development of electromagnetic acoustic transducer (EMAT) phased arrays for SFR inspection
*AIP Conference Proceedings, American Institute of Physics Inc., 2014, 1581 33, 1022-1029*
url | doi

**Article**
Leroy, E.; Lozada, J. & Hafez, M.
A curved ultrasonic actuator optimized for spherical motors: Design and experiments
*Ultrasonics, 2014*
url | doi

**Article**
Miorelli, R.; Dubois, A.; Bilicz, S.; Theodoulidis, T. & Reboud, C.
Simulation of pulsed eddy current testing via surrogate models
url | doi
Miorelli, R.; Reboud, C.; Lesselier, D.; Poulakis, N. & Theodoulidis, T.  
ECT simulation of complex narrow cracks in planar multi-layered structures  
*Studies in Applied Electromagnetics and Mechanics*, 2014, 38, 103-110  
url | doi

Miorelli, R.; Reboud, C. & Theodoulidis, T.  
2013 eddy current benchmark problem: Solution via a coupled integral approach  
*AIP Conference Proceedings, American Institute of Physics Inc.*, 2014, 1581 33, 2086-2092  
url | doi

Miorelli, R.; Reboud, C.; Theodoulidis, T.; Martinos, J.; Poulakis, N. & Lesselier, D.  
Coupled approach VIM-BEM for efficient modeling of ECT signal due to narrow cracks and volumetric flaws in planar layered media  
*NDT and E International*, 2014, 62, 178-183  
url | doi

Rouge, C.; Lhémery, A. & Aristégui, C.  
EMAT generation of bulk forces in a ferromagnetic plate and their equivalent surface stresses  
url | doi

Rouge, C. b.; Lhémery, A. & Aristégui, C.  
Frequency spectra of magnetostrictive and Lorentz forces generated in ferromagnetic materials by a CW excited EMAT  
url | doi

Rouge, C. b.; Lhémery, A.; Aristégui, C. & Walaszek, H.  
Calculation of ultrasonic fields radiated in a ferromagnetic medium by an EMAT of arbitrary bias field driven by a current of arbitrary intensity  
*AIP Conference Proceedings, American Institute of Physics Inc.*, 2014, 1581 33, 450-457  
url | doi

Rougeron, G.; Lambert, J.; Iakovleva, E.; Lacassagne, L. & Dominguez, N.  
Implementation of a GPU accelerated total focusing reconstruction method within CIVA software  
url | doi

Sergeeveya-Chollet, N.; Decitre, J.-M.; Fermon, C.; Pelkner, M.; Reimund, V. & Kreutzbruck, M.  
Development of eddy current probes based on magnetoresistive sensors arrays  
*AIP Conference Proceedings, American Institute of Physics Inc.*, 2014, 1581 33, 1374-1379  
url | doi
Article
Skarlatos, A.; Demaldent, E.; Vigneron, A. & Reboud, C.
Modelling of specimen interaction with ferrite cored coils by coupling semi-analytical and numerical techniques

Conference
Skarlatos, A. & Reboud, C.
Numerical modelling of eddy-current testing in tubes with non-canonical wall profile using modal description of the sources

Conference
Skarlatos, A. & Theodoulidis, T.
Eddy-current interaction between a probe coil and a conducting plate with a cylindrical borehole

Article
Skarlatos, A. & Theodoulidis, T.
Semi-analytical calculation of the low-frequency electromagnetic scattering from a near-surface spherical inclusion in a conducting half-space

Article
Sollier, T.; Cattiaux, G.; Marchand, B.; Demaldent, E. & Skarlatos, A.
Modeling the X-Probe® and the +Point® eddy current probes

Conference
Tisseur, D.; Costin, M.; Mathy, F. & Schumm, A.
Simulation of computed radiography with imaging plate detectors
AIP Conference Proceedings, American Institute of Physics Inc., 2014, 1581 33, 1861-1867

Conference
Toullelan, G.; Raillon, R.; Chatillon, S. & Lonne, S.
Results of the 2013 UT modeling benchmark obtained with models implemented in CIVA
*AIP Conference Proceedings, American Institute of Physics Inc.*, **2014**, 1581 33, 2093-2100
url | doi

**Article**
Trannoy, G.; Nikolovski, J.-P.; Holé, S. & Périno, D.
Temperature dependency comparison of ultrasonic wave propagation between injected and sintered thermoplastics
*Polymer Testing, Elsevier Ltd*, **2014**, 35, 34-44
url | doi

**Conference**
Trillon, A.; Deneuville, F.; Prémel, D.; Djafa, S. & Pichon, L.
A fast 3D semi-analytical model for simulating flaw responses provided by a magnetic flux leakage NDT system inspecting ferromagnetic pipes
*AIP Conference Proceedings, American Institute of Physics Inc.*, **2014**, 1581 33, 1421-1427
url | doi

**Conference**
Trillon, A.; Deneuville, F.; Reboud, C.; Foucher, F.; Lesselier, D. & Maurice, L.
Comparison of two modeling approaches of eddy current industrial non-destructive testing of steel pipes
*AIP Conference Proceedings, American Institute of Physics Inc.*, **2014**, 1581 33, 1471-1474
url | doi

**Article**
Vigneron, A.; Demaldent, E. & Bonnet, M.
Surface integral equations for electromagnetic testing: The low-frequency and high-contrast case
*IEEE Transactions on Magnetics, 2014*, 50
url | doi

**Article**
Zaidi, H. b.; Santandrea, L.; Krebs, G.; Le Bihan, Y. & Demaldent, E.
FEM technique for modeling eddy-current testing of ferromagnetic media with small skin depth
*IEEE Transactions on Magnetics, 2014*, 50
url | doi

**Article**
Efficient Pump Photon Recycling via Gain-Assisted Waveguiding Energy Transfer
*ACS PHOTONICS, AMER CHEMICAL SOC, (2014)*, {1}, {246-253}
doi

**Article**
Bertrand, G.; Sguerra, F.; Dehé-Pittance, C.; Carrel, F.; Coulon, R.; Normand, S.; Barat, E.; Dautremer, T.; Montagu, T. & Hamel, M.
Influence of bismuth loading in polystyrene-based plastic scintillators for low energy gamma spectroscopy
url | doi
Article
Bisch, C.; Mougeot, X.; Bé, M.-M. & Nourreddine, A.-M.
Development of a System for Measuring the Shape of $^{137}$I Spectra Using a Semiconductor Si Detector
*Nuclear Data Sheets, Academic Press Inc.*, 2014, 120, 95-98
url | doi

Article
Blanc, P. b.; Hamel, M.; Dehé-Pittance, C.; Rocha, L.; Pansu, R. & Normand, S.
Neutron/gamma pulse shape discrimination in plastic scintillators: Preparation and characterization of various compositions
url | doi

Article
Intrinsic evaluation of n/γ discrimination in plastic scintillators
*IEEE Transactions on Nuclear Science, Institute of Electrical and Electronics Engineers Inc.*, 2014, 61, 1995-2005
url | doi

Article
Bobin, C.; Bouchard, J.; Thiam, C. & Ménesguen, Y.
Digital pulse processing and optimization of the front-end electronics for nuclear instrumentation
*Applied Radiation and Isotopes, Elsevier Ltd*, 2014, 87, 195-199
url | doi

Conference
Caire, F.; Prémel, D. & Granet, G.
Semi-analytical computation of a quasi-static field induced by a 3D eddy current probe scanning a 2D layered conductor with parallel rough interfaces
*International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, John Wiley and Sons Ltd*, 2014, 27, 600-613
url | doi

Article
Cassette, P. & Tartès, I.
Experimental study of the influence of the counter and scintillator on the universal curves in the cross-efficiency method in LSC
*Applied Radiation and Isotopes, 2014*
url | doi

Article
Chechev, V. & Bé, M.-M.
Radioactive equilibrium: 99Mo/99mTc decay characteristics
url | doi

Article
Coulon, R.; Kondrasovs, V.; Boudergui, K. & Normand, S.
Moving sources detection algorithm for radiation portal monitors used in a linear network
*IEEE Transactions on Nuclear Science, Institute of Electrical and Electronics Engineers Inc.*, 2014, 61, 2189-2194
Article
Damian, V.; Resmerita, E.; Stoica, I.; Ibanescu, C.; Sacarescu, L.; Rocha, L. & Hurduc, N.
Surface relief gratings induced by pulsed laser irradiation in low glass-transition temperature azopolysiloxanes
Journal of Applied Polymer Science, 2014

Article
Ferreux, L.; Lépy, M.-C.; Bé, M.-M.; Isnard, H. & Lourenço, V.
Photon emission intensities in the decay of 108mAg and 110mAg

Article
First TDCR measurements at low energies using a miniature x-ray tube
Applied Radiation and Isotopes, 2014

Article
Hamel, M.; Frelin-Labalme, A.-M. & Normand, S.
The influence of the solvent in fast neutron/gamma discrimination

Article
Hamel, M.; Sibczynski, P.; Blanc, P. c.; Iwanowska, J.; Carrel, F.; Syntfeld-Kazuch, A. & Normand, S.
A fluorocarbon plastic scintillator for neutron detection: Proof of concept

Article
Direct observation of athermal photofluidisation in azo-polymer films
Soft Matter, Royal Society of Chemistry, 2014, 10, 4640-4647

Article
Kellett, M. & Bé, M.-M.
148g,mPm: Evaluation of the decay schemes for two important reactor poisons
Applied Radiation and Isotopes, Elsevier Ltd, 2014, 87, 95-100

Article
Lépy, M.-C.; Ibrahima Cissé, O. & Pierre, S.
Comparison of digital signal processing modules in gamma-ray spectrometry
Article
Implementation of an imaging spectrometer for localization and identification of radioactive sources

Article
Loidl, M.; Le-Bret, C.; Rodrigues, M. & Mougeot, X.
Evidence for the exchange effect down to very low energy in the beta decays of 63Ni and 241Pu

Article
Loidl, M.; Rodrigues, M.; Navick, X.-F.; Fleischmann, A.; Gastaldo, L. & Enss, C.
Concept of metallic magnetic calorimeters for rare event search in the LUMINEU project
*Journal of Low Temperature Physics, Springer New York LLC, 2014, 176, 624-630*

Article
Lourenço, V.; Ferreux, L.; Lacour, D.; Le Garrérès, I. & Morelli, S.
Preparation of spiked grass for use as an environmental radioactivity reference material
*Applied Radiation and Isotopes, Elsevier Ltd, 2014, 87, 456-460*

Article
Luca, A. & Lépy, M.-C.
Correction to the recommended $\gamma$-ray emission intensity of the 255.13keV photons in the decay of 113Sn

Article
Mass transport in low Tg azo-polymers: Effect on the surface relief grating induction and stability of additional side chain groups able to generate physical interactions
*Applied Surface Science, 2014, 290, 172-179*

Article
NHC copper(I) complexes bearing dipyridylamine ligands: Synthesis, structural, and photoluminescent studies
*Inorganic Chemistry, American Chemical Society, 2014, 53, 9181-9191*

Article
Mougeot, X.; Bé, M.-M.; Bisch, C. & Loidl, M.
Corrections for Exchange and Screening Effects in Low-energy Beta Decays


**Article**
Mougeot, X. & Bisch, C.
Consistent calculation of the screening and exchange effects in allowed $\beta^-$-Transitions
*Physical Review A - Atomic, Molecular, and Optical Physics, American Physical Society*, **2014**, 90

**Conference**
Peyret, T.; Corre, G.; Thevenin, M.; Martin, K. & Coussy, P.
Efficient application mapping on CGRAs based on backward simultaneous scheduling/binding and dynamic graph transformations
*Proceedings of the International Conference on Application-Specific Systems, Architectures and Processors, Institute of Electrical and Electronics Engineers Inc.*, **2014**, 169-172

**Article**
Rodrigues, M.; Lépy, M.-C.; Cassette, P.; Mougeot, X. & Bé, M.
Standardization of xenon-127 and measurement of photon emission intensities

**Article**
Rodrigues, M.; Loidl, M.; Pies, C.; Fleischmann, A. & Enss, C.
Development of Large Bismuth Absorbers for Magnetic Calorimeters Applied to Hard X-ray Spectrometry
*Journal of Low Temperature Physics, 2014*, 1-7

**Article**
Fluorescent polymeric aggregates for selective response to Sarin surrogates
*Chemical Communications, Royal Society of Chemistry*, **2014**, 50, 9965-9968

**Article**
Sampaio, J.; Madeira, T.; Marques, J.; Parente, F.; Costa, A.; Indelicato, P.; Santos, J.; Lépy, M.-C. & Méneguen, Y.
Approaches for theoretical and experimental determinations of K-shell decay rates and fluorescence yields in Ge
*Physical Review A - Atomic, Molecular, and Optical Physics, 2014*, 89
**Article**
Sari, A.; Carrel, F.; Lainé, F. & Lyoussi, A.
Design of a neutron interrogation cell based on an electron accelerator and performance assessment on 220 Liter nuclear waste mock-up drums
*IEEE Transactions on Nuclear Science, Institute of Electrical and Electronics Engineers Inc.*, 2014, 61, 2144-2148
url | doi

**Article**
BOOSTER: Development of a toolbox for triage of large groups of individuals exposed to radioactive material
*IEEE Transactions on Nuclear Science, Institute of Electrical and Electronics Engineers Inc.*, 2014, 61, 2210-2216
url | doi

**Article**
Sguerra, F.; Marion, R.; Bertrand, G.; Coulon, R.; Sauvageot, À.; Daniellou, R.; Renaud, J.-L.; Gaillard, S. & Hamel, M.
Thermo- and radioluminescent polystyrene based plastic scintillators doped with phosphorescent iridium(iii) complexes
*Journal of Materials Chemistry C, Royal Society of Chemistry*, 2014, 2, 6125-6133
url | doi