

Liste des communications scientifiques

- **Revue scientifique avec comité de lecture**

- 2014 Target localization through a data-based sensitivity kernel: A perturbation approach applied to a multistatic configuration, S. Yildiz, C. Marandet, **S. T. Rakotonarivo**, P. Roux, and W. A. Kuperman, *Journal of Acoustical Society of America*, vol. 135, 1800 – 1807.
- 2013 Prediction of a body's structural impedance and scattering properties using correlation of random noise, **S. T. Rakotonarivo**, W. A. Kuperman and E. Williams, *Journal of Acoustical Society of America*, vol. 134, 4401 – 4411.
- 2012 Model-independent range localization of a moving source in shallow water, **S. T. Rakotonarivo** and W. A. Kuperman, *Journal of Acoustical Society of America*, vol. 132, 2218 – 2223.
- 2011 Localization of a small change in a multiple scattering environment without modeling the actual medium, **S. T. Rakotonarivo**, S. C. Walker, W. A. Kuperman, P. Roux, *Journal of Acoustical Society of America*, vol. 130, 3566 – 3573.
- 2011 Forward modeling for marine sediment characterization using chirp sonars, **S. T. Rakotonarivo**, M. Legris, R. Desmare , J.-P. Sessarégo, J.-F. Bourillet, *Geophysics*, vol. 76 , no. 4 , T91-T99.
- 2005 Termites assess wood size by using vibration signals, T. A. Evans, J. C. S. Lai, E. Toledano, L. Mcdowall, **S. Rakotonarivo**, M. Lenz, *Proceedings of the National Academy of Sciences*, vol. 102, no. 10, 3732-3737.

- **Congrès internationaux avec comité de sélection**

- 2015 Ultrasonic Imaging In Liquid Sodium: A Differential Method For Damages Detection, E. Lubeigt, S. Mensah, J.-F. Chaix, **S. T. Rakotonarivo**, G. Gobillot, F. Bacqué, 2015 International Congress on Ultrasonic: Metz, France
- 2015 Ultrasonic Imaging In Liquid Sodium: A Differential Method For Damages Detection, E. Lubeigt, S. Mensah, J.-F. Chaix, **S. T. Rakotonarivo**, G. Gobillot, Conference ANIMMA, Lisboa, Portugal
- 2014 (Papier invité) Model tank experiments and using a random noise field to determine scattering properties of an object, **S. T. Rakotonarivo**, S. Yildiz, P. Roux, E. Williams and W. A. Kuperman, 2nd International conference on Underwater Acoustics, Rhodes island, Grèce
- 2014 Prediction of a body's structural impedance and scattering properties using correlation of random noise, **S. T. Rakotonarivo**, W. A. Kuperman and E. Williams, 167th Meeting of the Acoustical Society of America, Providence, Etats-Unis.
- 2013 Data-based sensitivity kernel in a highly reverberating cavity, S. Yildiz, C. Marandet, **S. T. Rakotonarivo**, P. Roux, and W. A. Kuperman, 166th Meeting of the Acoustical Society of America, San Francisco, Etats-Unis.
- 2012 Invariant-Based Range-Localization from a Frequency-Time Spectrogram, **S. T. Rakotonarivo**, W. A. Kuperman, *Proceedings of the 11th European Conference on Underwater Acoustics*, vol. 1, 956 - 961, Edinburgh, Écosse.

- 2010 Remote localization of a moving target in a random scattering medium based on the Born approximation, **S. T. Rakotonarivo**, S. C. Walker, W. A. Kuperman, P. Roux, *2nd Pan-American Meeting on Acoustic, Cancun, Mexique.*
- 2010 (Papier invité) Estimation of sediment parameters from subbottom profiling data using genetic algorithms, **S. T. Rakotonarivo**, J.-F. Bourillet, C. Yardim, *10th European Conference on Underwater Acoustics, Istanbul, Turquie.*
- 2008 Theoretical justification of a coherent forward model for subbottom profiler data inversion, **S. Rakotonarivo**, M. Legris, R. Desmare, F. Jean, *Proceedings of the 9th European Conference on Underwater Acoustics, vol. 1, 219 - 224, Paris.*

- **Congrès nationaux avec comité de sélection**

- 2006 Impact of measurement geometry on quantitative characterisation of sediment with high-resolution sub-bottom profiling systems (1 kHz – 15 kHz), **S. Rakotonarivo**, M. Legris, R. Desmare, F. Jean, *Caractérisation du Milieu Marin, Proceedings Sea Tech Week, Brest*

- **Communications orales**

- 2011 Localization of a small change in a multiple scattering environment without modeling the actual medium, **S. T. Rakotonarivo**, S. C. Walker, W. A. Kuperman, P. Roux, *Workshop Recent Developments in Wave Physics of Complex Media, Cargèse, Corse.*
- 2011 Laboratory experiments for the study of wave propagation in complex media, **S. Rakotonarivo** et W. A. Kuperman, *Comité de revue de projet de l'Office américain des Recherches Navales (ONR), Arlington, Etats-Unis*
- 2009 Caractérisation du béton par ultrasons: estimation de l'atténuation à partir de la rétrodiffusion, **S. Rakotonarivo**, *Rapport scientifique, Pôle Contrôle Non destructive du LMA (ex-LCND), Aix-en-Provence.*
- 2007 Impact de la rugosité sur la rétrodiffusion des signaux de sondeur de sédiment: résultats d'expériences en laboratoire, **S. Rakotonarivo**, *Conférence du groupe Ixmarine, IxTechDay'07, Marly.*