

1. Publications choisies des 5 dernières années (dernière promotion CNU en 2020), par catégories

Dans la liste des auteurs mon nom en gras et en souligné le nom des collaborateurs que j'ai encadrés (Master, Phd, et Postdoc)

1.1 Revues internationales

Chavin, **Glotin**, Best, Ourmières, Spatiotemporal innovation dynamics of Humpbackwhale songs in breeding areas, a 2 year study, submitted to Nature Communication, february 2025, preprint in <https://cian.lis-lab.fr/pub/chavin2025b.pdf>

Chavin, Simard, Jette, **Glotin**, Large scale bird cocktail parties automatic annotations, from Boreal to St Laurent Quebec regions over 60 bioacoustic stations and 5 years, in submission to Nature Communication, april 2025, <https://cian.lis-lab.fr/pub/chav2025a.pdf>

Paul Best, Marion Poupard, Ricard Marxer, Paul Spong, Helena Symonds, Hervé **Glotin**, Analysing vocal complexity in relation to sociality in orcas of British Columbia : an application of long-term computational passive acoustics, in Ecological Informatics, in minor revision, 2025, <https://cian.lis-lab.fr/pub/best2025.pdf>

Sara Erlor, Fabien de Varenne, Lima Soussa, Hervé **Glotin**, Mutual information in eDNA and bioacoustical observation at the North West Mediterrean bassin, the Sphyna Odyssey mission, in Ecological Informatics, in revision, 2025, preprint <https://cian.lis-lab.fr/pub/erler2025.pdf>

Poupard M., Best P., Pavan G., **Glotin** H, Vocal repertoire and bioacoutics analyses in Globicephala melas (long-finned pilot whale) from Mediterranean Sea. November 2024, <https://royalsocietypublishing.org/doi/full/10.1098/rsos.231973>

Ferrari M, Trinh-Hafner M , Sarano F., Sarano V, Giraudet P., **Glotin** H., Age and inter-pulse interval relation from newborn to adult sperm whale (Physeter macrocephalus) off Mauritius, August 2024, in Scientific Report, Nature Springer Ed. <https://www.nature.com/articles/s41598-024-51194-5>

Best P., Paris S., **Glotin** H., Marxer R., Deep audio embeddings for vocalisation clustering, in minor revision to Plos One, February 2023 <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0283396>

Balestrierio R., **Glotin** H. and B. Richard. "Interpretable and learnable super-resolution time-frequency representation." In Mathematical and Scientific Machine Learning, pp. 118-152. PMLR, 2022. <https://proceedings.mlr.press/v145/balestrierio22a>

Lehnhoff L., **Glotin** H., Bernard S., Dabin W., le Gall Y. et al.. (2022). Behavioural Responses of Common Dolphins Delphinus delphis to a Bio-Inspired Acoustic Device for Limiting Fishery By-Catch. Sustainability. <https://hal.umontpellier.fr/hal-03820889/document>

Malige F., Patris J., Hauray M., Giraudet P., **Glotin** H., et al.. Mathematical models of long term evolution of blue whale song types' frequencies. Journal of Theoretical Biology, Elsevier, 2022, 548, pp.111184. <https://hal.archives-ouvertes.fr/hal-03632687v2/document>

Best, P., Marxer R., Paris S. and **Glotin** H. Temporal evolution of the Mediterranean fin whale song. Scientific reports, 2022 <https://doi.org/10.1038/s41598-022-15379-0>

Poupard,M., Ferrari M., Best P., **Glotin** H. (2022), Passive acoustic monitoring of sperm whales and anthropogenic noise using stereophonic recordings in the Mediterranean Sea, North West Pelagos Sanctuary. In Scientific reports <https://doi.org/10.1038/s41598-022-05917-1>

Poupard M., Symonds H., Spong P., **Glotin** H. (2021) Intra-Group Orca Call Rate Modulation Estimation Using Compact Four Hydrophones Array. Frontiers in Marine Science <https://doi.org/10.3389/fmars.2021.681036>

Marie A. Roch, Scott Lindeneau, Gurisht Singh Aurora, Kaitlin E. Frasier, John A. Hildebrand, **Glotin** H., and Simone Baumann-Pickering , "Using context to train time-domain echolocation click detectors", The Journal of the Acoustical Society of America 149, 3301-3310 (2021) <https://asa.scitation.org/doi/pdf/10.1121/10.0004992>

Malige F., Djokic D., Patris J., Sousa-Lima R., **Glotin** H.. Use of recurrence plots for identification and extraction of patterns in humpback whale song recordings. Bioacoustics, Taylor and Francis, 2020, pp.1 – 16. <https://hal.archives-ouvertes.fr/hal-03008908/document>
Jenkins J., Paiement A., Ourmières Y., Sommer J., Verron J., Ubelmann C. and **Glotin** H. (2022). A DNN Framework for Learning Lagrangian Drift With Uncertainty, Applied Intelligence int. J. 53(20) 23729-23739 <https://arxiv.org/pdf/2204.05891v1.pdf>

1.2 INVITED INTERNATIONAL CHALLENGE

Mahé P., Ferrari M., Best P. et **Glotin** H. (2023). Biosonar ENS Collège de France Data Challenge, Rapport scientifique LISDYNI202301, <http://sabiiod.univ-tln.fr/pub/biosonardatachallenge2023.pdf>

1.3 INTERNATIONAL CONFERENCES

[c160] Deverin, Adrien; Gies, Valentin; Marzetti, Sebastián; Barchasz, Valentin; H. **Glotin**; Reducing AI complexity using ear bio-inspired primitives, European Signal Processing Conference, EUSIPCO 2024

[c159] Sebastián Marzetti, Valentin Gies, Valentin Barchasz, Hervé Barthélemy, H. **Glotin** : Analog Features Extractor for Ultra-Low Power Embedded AI Listening and Keyword Spotting. AICAS 2024 : 1-5

Chavin S.,..., H. **Glotin** (2023) Automatic classification of humpback whale (*Megaptera novaeangliae*) vocalization in the Caribbean. Humpback Whale World Congress march 2023 [http://sabiiod.lis-lab.fr/pub/\protect\relax\\$\@underline{\hbox{Chavin}}\mathsurround\z@\\$ \relax-HWWC.mp4](http://sabiiod.lis-lab.fr/pub/\protect\relax$\@underline{\hbox{Chavin}}\mathsurround\z@$ \relax-HWWC.mp4)

Best P., Marxer R., Paris S., **Glotin** H., Probing the Fin Whale Song Evolution, LSPM inauguration, CPPM, Marseille, february 2023 http://sabiiod.lis-lab.fr/pub/Fin_Whale_Song_LSPM_inauguration2023.pdf

Marzetti S., Gies V., Barchasz V., Barthelemy H., **Glotin** H., Kussener E., et al. (2020) Embedded Learning for Smart Functional Electrical Stimulation, 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) https://hal.archives-ouvertes.fr/hal-03386618/file/ITMS-2019-TENS_Learning.pdf

Poupard M., Best P., Ferrari M., Spong P., Symonds H., Prevot J-M., Soriano T., **Glotin** H. (2020) From massive detections and localisations of orca at orcalab over three years to real-time survey joint to environmental conditions in Eu. Forum Acusticum <https://hal.science/hal-03230841/document>

Ferrari M., **Glotin** H., Marxer R., Asch (2020) End to end raw audio deep learning of transients, application to bioacoustics, Eu. Forum Acusticum <https://hal.archives-ouvertes.fr/hal-03078665/document>

Ferrari M. et al. (2020) 3D diarization of a sperm whale click cocktail party by an ultra high sampling rate portable hydrophone array for assessing individual cetacean growth curves, Eu. Forum Acusticum <https://hal.archives-ouvertes.fr/hal-03078655/document>

Ferrari M. et al. (2020) DOCC10 : Open access dataset of marine mammal transient studies and end-to-end CNN classification, in 2020 International Joint Conference on Neural Networks (IJCNN). IEEE <https://hal.archives-ouvertes.fr/hal-02866091/document>

Marzetti, Gies V., Barchasz V., Best P., Paris S., Barthelemy H., **Glotin** H. (2020) Ultra-Low Power Wake-Up for Long-Term Biodiversity Monitoring, in proc. IEEE IoTAIS <http://dx.doi.org/10.1109/iotais50849.2021.9359710>

Best P., Marzetti S., Poupard M., Ferrari M., Paris S., Marxer R., Philippe O., Gies V., Barchasz V., **Glotin** H. (2020) Stereo to five channels Bombyx sonobuoys : from four years cetacean monitoring to real-time whale ship anti-collision system. Eu. Forum Acusticum <https://hal.archives-ouvertes.fr/hal-03199965/document>

Barchasz V., Gies V., Marzetti S., **Glotin** H. (2020) A novel low-power high speed accurate and precise DAQ with embedded artificial intelligence for long term biodiversity survey, Eu. Forum Acusticum <https://hal.archives-ouvertes.fr/FA2020/hal-03230835v1>

Best P., Ferrari M., Poupard M., Paris S., Marxer R., Symonds H., **Glotin** H. (2020) Deep Learning and Domain Transfer for Orca Vocalization Detection. In International joint conference on neural networks. IEEE IJCNN, International joint conference on neural networks, Jul 2020, glasgow, United Kingdom <https://hal.archives-ouvertes.fr/hal-02865300/document>

1.4 MANUSCRIPTS RESEARCH REPORTS

Gaëtan Patenôte, Hervé **Glotin**, Sébastien Paris, Stéphane Jaspers, Adeline Paiment (2024). SeGaMas : Serious Game for Marine mammals Survey, Une modélisation complète de scènes acoustiques sous-marines pour l'étude des cétacés http://sabiody.lis-lab.fr/pub/CIAN_LIS_CNRS_UTLN_Patenotre_2024_Rapport_de_recherche_SeGaMas.pdf

Viethen Salomé, Giraudet P., Jamet D. (2024), Mémoire de stage de master 1ere année – Etude comparée du répertoire de codas de deux groupes de cachalots récemment séparés (Ile Maurice) [http://sabiody.lis-lab.fr/pub/S-\protect\relax\\$\@underline{\hbox{Viethen}}\mathsurround\z@\\$ \relax_Maurice2023_Rapport_Stage-2024.pdf](http://sabiody.lis-lab.fr/pub/S-\protect\relax$\@underline{\hbox{Viethen}}\mathsurround\z@$ \relax_Maurice2023_Rapport_Stage-2024.pdf)

Deloustal N., Chavin S., **Glotin** H. (2023), Rapport de recherche V1 Suivi et identification temps-fréquence bioacoustique par transfert deep learning sur YOLO : gestion des chorus http://sabiody.lis-lab.fr/pub/YOLO_DYNI.pdf

Chavin S., Mahé P., Hermet T., Deloustal N. and **Glotin** H., (2023), Rapport de recherche, Analyse automatisée de la diversité acoustique, de la détection d'espèces aux indices bioacoustiques http://sabiody.lis-lab.fr/pub/LIS_QUEBEC_RR.pdf

Glotin et al., (2022) ADAPREDAT, mission arctique ADSIL, rapport recherche LIS DYNI, MITI CNRS et ADSIL, décembre 2022 http://sabiody.lis-lab.fr/pub/ADAPREDAT/ADAPT-VIVANT-20230201_ADAPREDAT.pdf

Ferrari M., **Glotin** H., (2022), Mesure du bruit ambiant sous-marin par la bouée stéréophonique BOMBYX au Sud du Parc National Port-Cros de 2015 à 2018 http://sabiody.lis-lab.fr/pub/BOMBYX_CNRS_LIS_RR202210_Mesure_bruit_ambiant_Toulon_2015_2018.pdf

Deloustal N., **Glotin** H., (2022), Rapport de recherche, Veille bioacoustique de l'avifaune en Guadeloupe http://sabiody.lis-lab.fr/pub/LIS_OFB_GUADELOUPE_RAPPORT-1.pdf

Chavin S., **Glotin** H., Poupard M., Best, P. Ferrari M., et al.. Automatic classification of humpback whale (*Megaptera novaeangliae*) vocalization in the Caribbean. Master thesis, Université de Toulon, Aix Marseille Univ, CNRS, LIS, Marseille, France. 2022 [http://sabiody.lis-lab.fr/pub/\protect\relax\\$\@underline{\hbox{Chavin}}\mathsurround\z@\\$ \relax_master_thesis.pdf](http://sabiody.lis-lab.fr/pub/\protect\relax$\@underline{\hbox{Chavin}}\mathsurround\z@$ \relax_master_thesis.pdf)

Glotin H., Ferrari M., Best P., Poupard M., Thellier N., et al.. CARIMAM Report Bioacoustic Data Processing. [Research Report] DYNI LIS. 2021. <https://hal.archives-ouvertes.fr/hal-03629286>

Glotin H., Poupard M., Best P., Ferrari M. (2021). Observations Stéréophoniques sur 4 ans de la Bouée BOMBYX au Sud du Parc National de Port-Cros : Méga-faune et pollution anthropophonique. LOT 2 : Le cas du rorqual et du globicéphale http://sabiody.lis-lab.fr/pub/BOMBYX/RAPPORT_ENGIE_LOT2_rorqual_CNRS_BOMBYX.pdf

Glotin H., Poupard M., Best P., Ferrari M. (2021). Observations Stéréophoniques sur 4 ans de la Bouée BOMBYX au Sud du Parc National de Port-Cros : Méga-faune et pollution anthropophonique. LOT 1 : Le cas du cachalot http://sabiody.lis-lab.fr/pub/BOMBYX/RAPPORT_ENGIE_LOT1_cachalot_CNRS_BOMBYX.pdf

Patris J., Malige F., Hamame M., Buchan S., Barchasz V., **Glotin** H., (2021) Etude des productions sonores des dauphins du canal de Puyuhuapi, Région de Aysen, Chili http://sabiody.lis-lab.fr/pub/rapport_projet_DYNI_CIEP.pdf

Balestriero R. and **Glotin**, H. and Baraniuk, R.G (2020) Interpretable Super-Resolution via a Learned Time-Series Representation, arxiv <https://arxiv.org/pdf/2006.07713.pdf>

1.5 Thèses dans les 5 dernières années dont je fus directeur de thèse (50 à 60 % de direction)

Ferrari M. (2020) Study of a Biosonar Based on the Modeling of a Complete Chain of Emission-Propagation-Reception with Validation on Sperm Whales, Phd Thesis, Université Picardie Jules Verne, (dir **Glotin** Asch) <https://hal.archives-ouvertes.fr/tel-03078625/document> soutenance novembre 2023, 36 mois

Poupard M. (2020) Contributions en Méthodes Bioacoustiques Multiéchelles : Spécifiques, populationnelles, individuelles et comportementale, Phd Thesis, Université de Toulon (dir **Glotin** Soriano Lengagne) [http://sabiody.univ-tln.fr/pub/\protect\relax\\$\@@underline{\hbox{Poupard}}\mathsurround\z@\relax/cv/m_\protect\relax\\$\@@underline{\hbox{Poupard}}\mathsurround\z@\relax_phd_08012021.pdf](http://sabiody.univ-tln.fr/pub/\protect\relax$\@@underline{\hbox{Poupard}}\mathsurround\z@\relax/cv/m_\protect\relax$\@@underline{\hbox{Poupard}}\mathsurround\z@\relax_phd_08012021.pdf) soutenance novembre 2023, 37 mois

Best P. (2022). Automated Detection and Classification of Cetacean Acoustic Signals. Machine Learning. Phd Thesis, Université de toulon (dir **Glotin**). <https://hal.archives-ouvertes.fr/tel-03826638/document>

Jenkins J. co dir Paiement A., Ourmières Y. DNN Framework for Learning Lagrangian Drift With Uncertainty, soutenance avril 2024, 42 mois.

2. Toutes mes publications, choisies, classées par année avec indice des catégories

c : conference, *j journal, i : reports or workshop, BC Book Chapter. I do not list the collective journal in our KM3 observatory as they include too much collaborators

2.1 2024

*[j48] M. Poupard, P. Best, J. P. Morgan, G. Pavan and H. **Glotin**, A first vocal repertoire characterization of long-finned pilot whales (*Globicephala melas*) in the Mediterranean Sea : a machine learning approach, Royal Society Open Science 11(11), 231973

*[j47] M Ferrari, M Trinh, F Sarano, V Sarano, P Giraudet, A Preud'homme, R Heuzet, H. **Glotin** : Age and interpulse interval relation from newborn to adult sperm whale (*Physeter macrocephalus*) off Mauritius, Scientific Reports 14 (1), 18474, 2024

[c163] Lehnhoff, Loïc ; Mérigot, Bastien ; H. **Glotin** ; Automated whistle extraction for precise scaled annotations 35th European Cetacean Society Conference 2024

[c163] Deverin, Adrien ; Gies, Valentin ; Marzetti, Sebastián ; Barchasz, Valentin ; H. **Glotin** ; Reducing AI complexity using ear bio-inspired primitives, European Signal Processing Conference, EUSIPCO 2024

[c161] Sebastián Marzetti, Valentin Gies, Valentin Barchasz, Hervé Barthélemy, H. **Glotin** : Analog Features Extractor for Ultra-Low Power Embedded AI Listening and Keyword Spotting. AICAS 2024 : 1-5

[c160] Lehnhoff, B Mérigot, H **Glotin** Axis dependence of SNR and frequency of whistles of free-ranging *D. delphis* assessed by a portable hydrophone array DCLDE 2024

[c159] C Fontana, H **Glotin**, C Brandini Alternative migration strategies of fin whales in the Mediterranean sea : evidence of a lunar influence EGU24

[c158] Alexis Joly, Lukás Pícek, Stefan Kahl, Hervé Goëau, Vincent Espitalier, Christophe Botella, Diego Marcos, Joaquim Estopinan, César Leblanc, Théo Larcher, Milan Sulc, Marek Hruz, Maximilien Servajean, H. **Glotin**, Robert Planqué, Willem-Pier Vellinga, Holger Klinck, Tom Denton, Ivan Eggel, Pierre Bonnet, Henning Müller : Overview of LifeCLEF 2024 : Challenges on Species Distribution Prediction and Identification. CLEF (2) 2024 : 183-207

[c157] Stefan Kahl, Tom Denton, Holger Klinck, Vijay Ramesh, Viral Joshi, Meghana Srivathsa, Akshay Anand, Chiti Arvind, Harikrishnan Cp, Suyash Sawant, Robin Vv, H. **Glotin**, Hervé Goëau, Willem-Pier Vellinga, Robert Planqué, Alexis Joly : Overview of BirdCLEF 2024 : Acoustic identification of under-studied bird species in the Western Ghats. CLEF (Working Notes) 2024 :1948-1957

[c156] Alexis Joly, Lukás Pícek, Stefan Kahl, Hervé Goëau, Vincent Espitalier, Christophe Botella, Benjamin Deneu, Diego Marcos, Joaquim Estopinan, César Leblanc, Théo Larcher, Milan Sulc, Marek Hruz, Maximilien Servajean, Jiri Matas, H. **Glotin**, Robert Planqué, Willem-Pier Vellinga, Holger Klinck, Tom Denton, Andrew M. Durso, Ivan Eggel, Pierre Bonnet, Henning Müller : LifeCLEF 2024 Teaser : Challenges on Species Distribution Prediction and Identification. ECIR (6) 2024 : 19-27

[i] H **Glotin**, J Girardet, JM Prévot, F Sarano, V Sarano, P Giraudet, V Gies, et al. Seconde exploration bioacoustique en fjord arctique : mise en évidence de chorus inédits de quatre superprédateurs étude de leurs interactions University of toulon, CIAN ; Laboratoire d'informatique et des Systèmes-LIS, <https://www.youtube.com/watch?v=pIDeGgSnNXU> in HAL MNHN

2.2 2023

*[j46] P Best, S Paris, H. **Glotin**, R Marxer, Deep audio embeddings for vocalisation clustering Plos one 18 (7), e0283396, 2023

*[j45] Joseph Jenkins, Adeline Paiement, Yann Ourmières, Julien Le Sommer, Jacques Verron, Clément Ubelmann, H. **Glotin** : A DNN Framework for Learning Lagrangian Drift With Uncertainty. int J. of Appl. Intell. 53(20) : 23729-23739 (2023)

[c155] Alexis Joly, Christophe Botella, Lukás Pícek, Stefan Kahl, Hervé Goëau, Benjamin Deneu, Diego Marcos, Joaquim Estopinan, César Leblanc, Théo Larcher, Rail Chamidullin, Milan Sulc, Marek Hruz, Maximilien Servajean, H. **Glotin** Robert Planqué, Willem-Pier Vellinga, Holger Klinck, Tom Denton, Ivan Eggel, Pierre Bonnet, Henning Müller : Overview of LifeCLEF 2023 : Evaluation of AI Models for the Identification and Prediction of Birds, Plants, Snakes and Fungi. CLEF 2023 : 416-439

[c154] Stefan Kahl, Tom Denton, Holger Klinck, Hendrik Reers, Francis Cherutich, H. **Glotin**, Hervé Goëau, Willem-Pier Vellinga, Robert Planqué, Alexis Joly : Overview of BirdCLEF 2023 : Automated Bird Species Identification in Eastern Africa. CLEF (Working Notes) 2023 : 1934-1942

[c153] Alexis Joly, Hervé Goëau, Stefan Kahl, Lukás Pícek, Christophe Botella, Diego Marcos, Milan Sulc, Marek Hruz, Titouan Lorieul, Sara Si-Moussi, Maximilien Servajean, Benjamin Kellenberger, Elijah Cole, Andrew Durso, H. **Glotin**, Robert Planqué, Willem-Pier Vellinga, Holger Klinck, Tom Denton, Ivan Eggel, Pierre Bonnet, Henning Müller : LifeCLEF 2023 Teaser : Species Identification and Prediction Challenges. ECIR (3) 2023 : 568-576

*[j44] Sarano, François ; Sarano, Véronique ; Tonietto, Modan-Lou ; Yernaux, Adrien ; Jung, Jean-Luc ; Arribart, Marion ; Girardet, Justine ; Preud'Homme, Axel ; Heuzey, René ; Delfour, Fabienne ; **Glotin**, Charrier, Adam ; Nursing behavior in sperm whales (*Physeter macrocephalus*) Animal Behavior and Cognition 10 2 105-131 2023

*[j43] M Poupard, M Ferrari, P Best, H **Glotin**, Passive acoustic monitoring of sperm whales and anthropogenic noise using stereophonic recordings in the Mediterranean Sea, North West Pelagos Sanctuary, Scientific reports 12 (1), 2023

2.3 2022

*[j42] Malige, Franck ; Patris, Julie ; Hauray, Maxime ; Giraudet, Pascale ; H **Glotin** (Noûs) Mathematical models of long term evolution of blue whale song types' frequencies, Journal of theoretical biology 548 111184 2022 Academic Press

*[j41] Véronique, Sarano ; François, Sarano ; Justine, Girardet ; Axel, Preud'homme ; Hugues, Vitry ; René, Heuzey ; Marion, Sarano ; Fabienne, Delfour ; H **Glotin** Olivier, Adam ; Underwater photo-identification of sperm whales (*Physeter macrocephalus*) off Mauritius Marine Biology Research 18 1-2 131-146 2022 Taylor Francis

[BC8] Pavan, Gianni; Budney, Gregory; Klinck, Holger; H **Glotin** Clink, Dena J; Thomas, Jeanette A; History of sound recording and analysis equipment Exploring Animal Behavior Through Sound : Volume 1 : Methods 1-36 2022 Springer International Publishing Cham

*[j40] Lehnhoff, Loïc; H **Glotin** Bernard, Serge; Dabin, Willy; Le Gall, Yves; Menut, Eric; Meheust, Eleonore; Peltier, H  l  ne; Pochat, Alain; Pochat, Krystel; Behavioural Responses of Common Dolphins *Delphinus delphis* to a Bio-Inspired Acoustic Device for Limiting Fishery By-Catch Sustainability 14 20 13186 2022 MDPI

[B2] H **Glotin** Schneider, Le Bruit en Mer, Quae Ed 2022

[c152] Marzetti, Sebasti  n; Gies, Valentin; Barchasz, Valentin; Barth  lemy, H **Glotin** Comparing Analog and Digital Processing for Ultra Low-Power Embedded Artificial Intelligence 2022 IEEE International Conference on Internet of Things and Intelligence Systems (IoTais)

*[j39] P Best, R Marxer, S Paris, H **Glotin** Temporal evolution of the Mediterranean fin whale song, Scientific Reports 12, 2022

[c151] Alexis Joly, Herv   Go  au, Stefan Kahl, Luk  s Picek, Titouan Lorieul, Elijah Cole, Benjamin Deneu, Maximilien Servajean, Andrew Durso, H **Glotin** Robert Planqu  , Willem-Pier Vellinga, Amanda Navine, Holger Klinck, Tom Denton, Ivan Eggel, Pierre Bonnet, Milan Sulc, Marek Hr  z : Overview of LifeCLEF 2022 : An Evaluation of Machine-Learning Based Species Identification and Species Distribution Prediction. CLEF 2022 : 257-285

[c150] Stefan Kahl, Amanda Navine, Tom Denton, Holger Klinck, Patrick Hart, H **Glotin** Herv   Go  au, Willem-Pier Vellinga, Robert Planqu  , Alexis Joly : Overview of BirdCLEF 2022 : Endangered bird species recognition in soundscape recordings. CLEF (Working Notes) 2022 : 1929-1939

[c149] Alexis Joly, Herv   Go  au, Stefan Kahl, Luk  s Picek, Titouan Lorieul, Elijah Cole, Benjamin Deneu, Maximilien Servajean, Andrew Durso, Isabelle Bolon, H **Glotin** Robert Planqu  , Willem-Pier Vellinga, Holger Klinck, Tom Denton, Ivan Eggel, Pierre Bonnet, Henning M  ller, Milan Sulc :Life-CLEF 2022 Teaser : An Evaluation of Machine-Learning Based Species Identification and Species Distribution Prediction. ECIR (2) 2022 : 390-399

[c148] Sebasti  n Marzetti, Valentin Gies, V. Barchasz, Herv   Barth  lemy, H **Glotin** Comparing Analog and Digital Processing for Ultra Low-Power Embedded Artificial Intelligence. IoTais 2022 : 112-116

[i18] Joseph Jenkins, Adeline Paiement, Yann Ourmi  res, Julien Le Sommer, Jacques Verron, Cl  ment Ubelmann, H **Glotin** A DNN Framework for Learning Lagrangian Drift With Uncertainty. CoRR abs/2204.05891 (2022)

2.4 2021

*[j38] Malige, Franck; Djokic, Divna; Patris, Julie; Sousa-Lima, Renata; H **Glotin**; Use of recurrence plots for identification and extraction of patterns in humpback whale song recordings Bioacoustics 30 6 680-695 2021 Taylor

*[j37] Francis Sarano, Francois; Girardet, Justine; Sarano, V  ronique; Vitry, Hugues; Preud'Homme, Axel; Heuzey, Ren  ; Garcia-Cegarra, Ana M; Madon, B  n  dicte; Delfour, Fabienne; H **Glotin** Kin relationships in cultural species of the marine realm : case study of a matrilineal social group of sperm whales off Mauritius island, Indian Ocean., J Royal Society Open Science 2 201794 2021

[c147] Marzetti, Sebasti  n; Gies, Valentin; Barchasz, Valentin; Best, Paul; Paris, S  bastien; Barth  lemy, Herv  ; H **Glotin**; Ultra-Low Power Wake-Up for Long-Term Biodiversity Monitoring, 2020 IEEE International Conference on Internet of Things and Intelligence System (IOTAIS) 188-193

*[j36] Marzetti, Sebasti  n; Gies, Valentin; Best, P., Barchasz, V. Paris, S  bastien; Barth  l  my, Herv  ; H **Glotin** A 30 W Embedded Real-Time Cetacean Smart Detector Electronics 10 7 819 2021 MDPI

*[j35] Roch, Marie A; Lindeneau, Scott; Aurora, Gurisht Singh; Frasier, Kaitlin E; Hildebrand, John A; H **Glotin** Baumann-Pickering, Simone; Using context to train time-domain echolocation click detectors The Journal of the Acoustical Society of America 149 5 3301-3310 2021

*[j34] Poupard, Marion; Symonds, Helena; Spong, Paul; H **Glotin** Intra-group orca call rate modulation estimation using compact four hydrophones array, *Frontiers in Marine Science* 8 681036 2021 Frontiers Media SA

[BC7] Shimotoku, Daisuké; Kawase, Junya; H **Glotin** Kobayashi, Hill Hiroki; Comparison Between Manual and Automated Annotations of Eco-Acoustic Recordings Collected in Fukushima Restricted Zone International Conference on Human-Computer Interaction 164-177 2021 Springer International Publishing Cham

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