

 <p>Arctic, recording megafauna with custom HD array</p>	<p>Hervé GLOTIN 14 February 1970, French, Prof. 1st Class, Univ. Toulon Lab Informatique Systems UMR CNRS 7020 & Centre Int. d'Intell. Artificielle en Acoustique Naturelle https://glotin.univ-tln.fr https://cian.univ-tln.fr</p>	
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Education

2007	Habilitation for research direction, "Audio Lego Video", Jury S. Bengio, P. Gallinari...)
2001	IBM Watson Research PostDoc, on Large Scale Language Model, 3 months, New York
2001	Ph.D. in AI for speech recognition, Inst. Nat. Polytech. Grenoble, FR & IDIAP CH
1996	Master in AI and phonetics, University Paris 6 & INPG, "Dynamics of vocalic systems"

Positions

2001-2003	Research Ing. CNRS Equipe Recherche en Syntaxe et Sémantique, Toulouse, Fr (1st rank)
2003 - now	University Toulon, LIS LAB CNRS, UMR 7020 Associate researcher then Prof. since 2011
2008...	Founder and PI of the DYNI CNRS research team (A+). coPI since 2018
2024...	Founder & director of int. Center of Artificial Intelligence for Bioacoustics https://cian.univ-tln.fr We created this federation of research https://rnsr.adc.education.fr/structure/202424556S to increase the efficiency of our projects in our international consortium, with common devices and methodologies. CIAN federates 40 researchers on Toulon, 10 France, 40 abroad.

Project management (Grant=what I received), most are precised at cian.univ-tln.fr

2026-30 2024	Pi Passive Acoustics Monitoring in Antarctic PolarPod Expedition (design array, online detect.) Pi of ArcticFjord3D expedition, interdiscp. 12 experts x 2 weeks in arctic fjord monitoring, inviting Dr. Jean-Louis Etienne as partnership, 70K€ https://www.uvv-lis.fr/Projets/ADAPREDAT/FJORD3D-Universite-de-Toulon-la-ecoute-des-fonds.html
2024-29	Pi Int. Research Program CNRS with Chili and Argentina on cetacean survey, 100K€
2023-27	coPi FEDER interreg SeaStMar on whale anti collision with our Bombyx AI sonobuoy, 60K€
2023-28	coPi European project TABMON Biodivera: AI for continental scale bird survey, 120K€
2023-29	localPi EOLMED, survey of Qair marine eolian parc, expertise on bio/acoustics, 100K€
2022-25	localPi PIA PSIBIOM on IoT for terrestrial fauna monitoring, 210K€
2021-24	Pi ADAPREDAT ARCTIC exped. bioacoustic marine megafauna, Interdiscp. MITI CNRS, 60K€ https://sabiod.lis-lab.fr/pub/ADAPREDAT/AAPSanteEnvironnement2022.2_Rapportfinal_GLOTIN_FJORD3D_202403.pdf
2021-29	localPi PIA TERRAFORMA on terrestrial fauna acoustic monitoring, head of AI group, 80K€
2021-26	localPi ANR ULP Cochlea on spiking neural networks for bioacoustics, 120K€
2021-26	Pi european project EUROPAM Biodivera on marine biophony vs anthropophony, 120K€
2020-24	Pi of ANR Sylvania on Synchronized low power bioacoustical observatories, 120K€
2018-21	localPi of FEDER interreg. GIAS on whale marine traffic anti collision, Bombyx buoy, 220K€
2020-25	Pi of the national AI Chair in bioacoustics, ADSIL, ANR, 550K€
2017-26	localPi 'La Voix des cachalots', individual whale communication, WhaleWay & Mauritius, 60K€ https://www.longitude181.org/programme-cetaces-cachalots/
2016-26	Pi BirdSurvey on 60 acoustic stations of Boreal region to StLaurent, Quebec, 200K€
2018-20	Pi Sphyrna Odyssey, DNA & Acoustics cetacean survey from surface drone, FPA2 EdM 600K€
2017-24	localPi CARIMAM (2021 then continued in CIAN): Carabeans passive acoustic network, 110K€

2017-20	localPi ANR AVEIR, Web Image Auto-Annotation, 12K€
2015-19	Pi STIC AM SUD CNRS international project, bioacoustics in SudAmerica, 40 K€
2012-14	localPi FUI Abyssound : antropophony and cetacean, 100K€
2011-14	localPI PHRASE FUI : Augmented Reality & Autonomous Perception, 80K€
2008-10	Pi ANR COGNILEGO: from Pixels to Semantics localPI ANR ANCL, Learning to read, 70K€
2007-09	localPi ANR AVEIR, Web Image Auto-Annotation, 80K€
2006-24	Pi ERMITES int. schools on multimodal AI, 40h/session, 30 attendees, 12K€ * 12 sessions
2005-09	localPi ANR ANCL Neurocomputational reading, 60 K€ + localPi ACI TCAN, 20K€

Other Expertise or Administrative Research

2021-2024	Nominated by the ministry at the National Research Committee of CNRS I'm one of the 16 jury for lifetime research recruitment and career. charge=11 weeks/year
2018-19	Codir of the master of computer sciences, Toulon
2017	Co-org. of Int Conf. on Learning Representation, ICLR, 1500 attendees, Toulon
2015	Dir. department Computer Sciences
2012...	Head of the SABIOD.org, a platform for scaled bioacoustics (1 Peta Oct. bioacoustic data)
2015-19	Elected at the Administration Council of the university of Toulon
2011-13	PI of NIPS and ICML workshop of machine learning for bioacoustics
2011-14	Vice director of the Sciences Research and Formation Unit (UFRST) of Toulon
2010-14	Elected at the council of the Unity of Formation and Research ST Toulon
2010-14	Elected at the LSIS lab. council

Publications selected 48 journals Q1, 161 int. conferences, 13 000 Citations, hfactor 46
 Gscholar (2024). Bibliography: <https://scholar.google.com/citations?hl=en&user=DqieizcAAAAJ>

30 master thesis direction, 14 defended Phd Thesis, 7 current Phd students

Industrial or public innovation / highlights from research (2 Pat., 1 invent., 1 plat.& startup)

- Online Cetacean 4D Tracking system, Pat. USA, Canada, N. Zealand, Australia, Europe, 2009...2025 Glotin 50%, Giraudet, Benard/Caudal PCT 2009/01227, US 8638641
- Glotin 40%, A. Mishchenko, P. Giraudet. Contraintes conjointes de différences temporelles et effet Doppler multibandes pour la séparation, caractérisation et localisation de sources sonores par acoustique passive. Patent FR14 54539.2015.
- Invention INPI 2024 CochleAI: neuromorphic listening Gies, Glotin 10%, et al.
- Co creator with V. Gies SMIoT on embedded AI, 2015-... **Cocreator of ALPAI startup with S. Marzetti et al. on low power acoustic analysers (winner Region Innovation Chall. 2024).**
- Director of Sphyrna Odyssey, FPA2, Explorations de Monaco <https://sabiod.lis-lab.fr/pub/SO1.pdf> aiming to better understand how *Sperm whales*, *Cuvier's beaked whales*, *Risso's dolphins*, and *pilot whales* dives and collaborate in their foraging at great depths. I built this 1st acoustic drone survey in the Mediterranean, September 2019 to April 2020. I now continue it for 2 months in Guadeloupe as part of the ADSIL project. This SPHYRNA project operates with two oceanic naval drones twenty m. long. From Toulon to Genoa, Corsica to Balearic Islands, these autonomous laboratory vessels collected DNA and acoustic data, without noise therefore, without disturbing animals, to compute their nominal diving sequence in three dimensions and see how these large sounders may adapt to anthropophony.
- Initiator, designer and PI of the "Bombyx sonobuoy" network to monitor cetaceans against marine traffic collision, I now install them in Norway, Azores, Italia with real time data transmissions <https://www.france.tv/france-2/13h15-le-samedi/2533353-l-homme-qui-parle-aux-cachalots.html>

Invited presentations to peer-reviewed national or international conferences

- Pi of 10 editions, since 2006, of int. ERMITES summer school / workshop on advanced multimodal information retrieval : <https://glotin.univ-tln.fr/ERMITES/>
- Pi workshops on machine learning for bioacoustics in ICML2013 Atlanta, co PI Y. Lecun (Turing Medal), NIPS2013 Nevada and ICML2014 Beijing, where I organised the first bird song classification challenges (100 species) and other innovative AI bioacoustics challenges. <https://sabiod.lis-lab.fr/EADM/index.html>
- coPi BirdLifeCLEF challenges (500 species in 2014, 1000 in 2015, and 2000 in 2016...). The Birdnet application has been built from a BirdClef model on a challenge I co-created.

- Pi EADM Bioacoustics, Peru <https://sabiod.lis-lab.fr/EADM/index.html> 2015
- Pi Environmental Acoustic Data mining wkp at Int. Conf. Data Mining (ICDM) 2015 USA.
- Pi EUSIPCO Special Session on Bird Audio Signal Processing Eur. sig proc conf 2017.
- coPi int. Detection Classification Localization Conf. Sorbonne 2018, PI of the challenges.
- AreaChair Int. Conf on Learning Representation (ICLR), Toulon, 2000 attendies CP LeCun

Fellowships, awards and prizes

- Awarded 2011-16 of the Institut Universitaire de France.
- First at BirdClef bird identification challenge 2016.
- Winner of a National Chair on AI for bioacoustics <https://cian.lis-lab.fr> 2020, 550 K€.
- Owner of PEDR A+ or PES university price since 2010.

Diffusion, research communication, dissemination

- Scientific coDirector Exposition "Plongée sonore avec les cétacés" 2023, Museum d'Histoire Naturelle du Var : 50 000 visitors in 1 year, the record, see <http://cian.univ-tln.fr>
- I initiated / participated to many documentaries, all available at <http://sabiod.org/tv.html> = "Interdiction des jet skis", France Inter 2024 ; "Thalassa" 20240930 ; "Le jour des baleines" (2023) ; "Pelagos, voyage au large de la Méditerranée" (2023) ; "Détection de clics d'Odontocètes" Collège de France Challenge DATA 2023 ; "Souffle de vie" de l'association Live Together ; "Silence en Méditerranée" (2021) ; "Le retour du silence - Quand l'Homme n'est pas là... les animaux dansent !" Arte 2021 ; "Plongée aux côtés des cachalots", La Chronique Environnementale 2021 France Inter ; "Bouée Bombyx", Extrait 13h15, le samedi France2 2021 ; "Le clan des cachalots" Arte 2021; "Quiet Sea Sphyrna Odyssey" Thalassa 2020 ; "Orques en péril" Arte (presented by my Phd student) 2019 ; "JT 19H MonacoInfo" 2020 ; "Quiet Sea - Sphyrna Odyssey" TF1 JT 20h 2020 ; "28 Minutes" ARTE, 2020 ; "DOCC10 challenge" at Collège de France 2020 ; Journal de 20h France2 2020 ; Thalassa 2012 ; EXPLÔ France Ô 2012.
- Press articles in Le Monde, Figaro, Parisien, Libération, National Geographics, NewYorkTimes https://www.nytimes.com/interactive/2016/04/16/opinion/sunday/conversation-with-whales.html?_r=0, ...
- Scientific coDirector of the permanent museum partly on bioacoustics at Maison de la Mer, Sanary/Mer Var, 500m2, in preparation 2025.
- Creator of public / interactive web interfaces to display our investigations on megafauna <https://cosphilog.fr/cachalotsPaca/?camp=all> <https://cosphilog.fr/cachalots-musee/>
- Polyphonic spectacle (Liberté national Theater 2021, 2022) with M. Mercier, from Sphyrna
- Spectacle Un. Nation Ocean Conf. Nice 2025 <https://www.mangroovemusic.org/project/one-song-one-ocean>
- Preparation of a marine acoustic spectacle with Ecole des Mines Paris, nov 2025, Scientific
- Computation of a binaural compilation of our discovery of the four superpredators calling together in Skervoy Fjord, Arctic (Expedition Adapredat 2023 PI). My "Old world Symphony" : https://sabiod.lis-lab.fr/pub/ADAPREDAT/bin_MMercier_HGlotin_23.wav

Invited researcher / talk at

- 2024 OOS 2025 UNOC scientific symp. session"Artificial intelligence & biophony survey"
- National Scientific Committee Pelagos, invited conf. on jetskiNoise, october 2023
- Museum Histoire Naturelle, Grande Galerie de l'Evolution, Ecoacoustics, 2018
- Mathematic big data russia-french symposiums, 2017 & 2018
- Max Planck Institute, Gottingen on Orca call studies, 1 month 2017
- Institute Henri Poincaré, Paris, on Wigner Ville and DNN, by C. Villani (Fields), 2017
- Ocean Network Canada, Victoria Univ, Data science department, BC, 2 months 2016+17
- Hefei University of Technology & Beijing nat. Academia of Sciences, total 1 month, 2015
- IHES, Paris, as discussant on time-frequency decomposition, by S. Mallat, 2012

Reviewer for ANR, CNRS national council, Sorbonne council, Conf. : IEEE ICASSP 2024 2020

2015 2012, NIPS2016, ICML2017, EUSIPCO 2017, INTERSPEECH 2013, ICLR2017, ICDM 2025, Clef 2013-17.. workshops : ICDM2015, NIPS4B 2014, ICML4B 204, ICMLlub 2015, LIFEclef 2015 ; Journals : PlosOne, J. Acoust. Soc. America, Scient.Report, IEEE TASP, App. Acoustics...

Educational and administrative responsibilities during the last 5 years

2021-2024	Nominated by the ministry at the National Research Committee of CNRS I'm one of the 16 jury for lifetime research recruitment and career. charge=11 weeks/year
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Other from 2020 to 2024 :

Pi of ArcticFjord3D expedition, interdiscp. 12 experts x 2 weeks in arctic fjord monitoring, inviting Dr Jean-Louis Etienne as partnership, 70K€

<https://www.univ-tln.fr/Projet-ADAPREDAT-FJORD3D-a-l-ecoute-des.html>

Pi Int. Research Program CNRS with Chili and Argentina on cetacean survey, 100K€

coPi FEDER intereg SeaStMar on whale anti collision with our Bombyx AI sonobuoy, 60K€

coPi European project TABMON Biodivera: AI for continental scale bird survey, 120K€

localPi EOLMED, survey of Qair marine eolian parc, expertise on bio/acoustics, 100K€

localPi PIA PSIBIOM on IoT for terrestrial fauna monitoring, 210K€

Pi ADAPREDAT ARCTIC exped. bioacoustic marine megafauna, Interdiscp. MITI CNRS, 60K€

https://sabiod.lis-lab.fr/pub/ADAPREDAT/AAPSanteEnvironnement2022.2_Rapportfinal_GLOTIN_FJORD3D_202403.pdf

localPi PIA TERRAFORMA on terrestrial fauna acoustic monitoring, head of AI group, 80K€

localPi ANR ULPCochlea on spiking neural networks for bioacoustics, 120K€

Pi european project EUROPAM Biodivera on marine biophony vs anthropophony, 120K€

Pi of ANR Sylvania on Synchronized low power bioacoustical observatories, 120K€

BIBLIOGRAPHY

Selected publications : 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

2024

*[j48] M. Poupart, 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 Biology, 2024

*[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

[c161] Lehnhoff, Loïc; Mérigot, Bastien; **H. Glotin**; Automated whistle extraction for precise scaled annotations 35th European Cetacean Society Conference 2024

[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 Barthélémy, **H. Glotin**: Analog Features Extractor for Ultra-Low Power Embedded AI Listening and Keyword Spotting. AICAS 2024: 1-5

[c158] Alexis Joly, Lukás Picek, Stefan Kahl, Hervé Goëau, Vincent Espitalier, Christophe Botella, Diego Marcos, Joaquim Estopinan, César Leblanc, Théo Larcher, Milan Sulc, Marek Hrúz, 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 Srivaths, 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 Picek, Stefan Kahl, Hervé Goëau, Vincent Espitalier, Christophe Botella, Benjamin Deneu, Diego Marcos, Joaquim Estopinan, César Leblanc, Théo Larcher, Milan Sulc, Marek Hrúz, Maximilien Servajean, Jirí 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

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 Picek, Stefan Kahl, Hervé Goëau, Benjamin Deneu, Diego Marcos, Joaquim Estopinan, César Leblanc, Théo Larcher, Rail Chamidullin, Milan Sulc, Marek Hrúz, 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 Picek, Christophe Botella, Diego Marcos, Milan Sulc, Marek Hrúz, 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 102 105-131 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

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, Hélène; 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, Sebastián; Gies, Valentin; Barchasz, Valentin; Barthélémy, **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, Hervé Goëau, Stefan Kahl, Lukás Picek, Titouan Lorieul, Elijah Cole, Benjamin Deneu, Maximilien Servajean, Andrew Durso, **H Glotin** Robert Planqué, Willem-Pier Vellinga, Amanda Navine, Holger Klinck, Tom Denton, Ivan Eggel, Pierre Bonnet, Milan Sulc, Marek Hrúz: 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** Hervé Goëau, Willem-Pier Vellinga, Robert Planqué, Alexis Joly: Overview of BirdCLEF 2022: Endangered bird species recognition in soundscape recordings. CLEF (Working Notes) 2022: 1929-1939

[c149] Alexis Joly, Hervé Goëau, Stefan Kahl, Lukás Picek, Titouan Lorieul, Elijah Cole, Benjamin Deneu, Maximilien Servajean, Andrew Durso, Isabelle Bolon, **H Glotin** Robert Planqué, Willem-Pier Vellinga, Holger Klinck, Tom Denton, Ivan Eggel, Pierre Bonnet, Henning Müller, Milan Sulc:LifeCLEF 2022 Teaser: An Evaluation of Machine-Learning Based Species Identification and Species Distribution Prediction. ECIR (2) 2022: 390-399

[c148] Sebastián Marzetti, Valentin Gies, V. Barchasz, Hervé Barthélémy, **H Glotin** Comparing Analog and Digital Processing for Ultra Low-Power Embedded Artificial Intelligence. IoTais 2022: 112-116

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

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] FrancisSarano, Francois; Girardet, Justine; Sarano, Véronique; Vitry, Hugues; Preud'Homme, Axel; Heuzey, René; Garcia-Cegarra, Ana M; Madon, Bénédicte; 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, Sebastián; Gies, Valentin; Barchasz, Valentin; Best, Paul; Paris, Sébastien; Barthelemy, Hervé; **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, Sebastián; Gies, Valentin; Best, P., Barchasz, V. Paris, Sébastien; Barthélémy, Hervé; **H Glotin** A 30 µW 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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[c146] Stefan Kahl, Tom Denton, Holger Klinck, **H Glotin**, Hervé Goëau, Willem-Pier Vellinga, Robert Planqué, Alexis Joly: Overview of BirdCLEF 2021: Bird call identification in soundscape recordings. CLEF (Working Notes) 2021: 1437-1450

[c145] Alexis Joly, Hervé Goëau, Elijah Cole, Stefan Kahl, Lukás Picek, **H Glotin** Benjamin Deneu, Maximilien Servajean, Titouan Lorieul, Willem-Pier Vellinga, Pierre Bonnet, Andrew Durso, Rafael Luis Ruiz De Castaneda, Ivan Eggel, Henning Müller: LifeCLEF 2021 Teaser: Biodiversity Identification and Prediction Challenges. ECIR (2) 2021: 601-607

[c144] Daisuké Shimotoku, Junya Kawase,**H Glotin**Hill Hiroki Kobayashi: Comparison Between Manual and Automated Annotations of Eco-Acoustic Recordings Collected in Fukushima Restricted Zone. HCI (21) 2021: 164-177

[c144] Randall Balestrieri, **H Glotin** Richard G. Baraniuk: Interpretable and Learnable Super-Resolution Time-Frequency Representation. MSML 2021: 118-152

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2020

[i17] **H Glotin**Ferrari, Maxence; Best, Paul; Poupard, Marion; Thellier, Nicolas; Monsimer, Audrey; Giraudet, Pascale; Carimam report bioacoustic data processing2021 DYNI LIS 2020

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