Mina Mounir [Curriculum Vitae]

Address:	4 av. des Genêts, 1435, Mont-st-Guibert, Belgium
Nationality:	Egyptian & Belgian
Languages:	English (C2), French (C2), Italian (C2), Dutch (B1), Arabic (mother tongue) and Spanish (A2)
Email:	mina.mas@hotmail.com

Education

Sep. 2020 Ph.D. in Engineering Technology, *KU Leuven*, Leuven, Belgium.

• Thesis: Acoustic Event Detection: Feature, Evaluation and Dataset Design

Sep. 2013 M.Sc. in Embedded Systems, Advanced learning and Research Institute (ALaRI) - masters program offered by *Università della Svizzera Italiana (USI)*, *ETH Zurich* and *Politecnico di Milano (Polimi)*, Ticino, Switzerland.

• Thesis: Note Onset Detection using Sparse Over-Complete Representation of Musical Signals

May 2008 B.Sc. in Computer Engineering, Cairo University, Egypt.

• Thesis: Hardware and software co-development of KenzoBoy: a motion-controlled (Treasure Hunt) Gameboy.

Academia and Industry Positions

since 2020 Postdoctoral Researcher (with Jean-Marie Aerts and Tomas Norton), KU Leuven, Faculty of Bioscience Engineering, Department of Biosystems (BIOSYST), Model & Manage Bioresponses Group (M3-BIORES), Leuven, Belgium

• Cf. Research Projects: *IDEAL*, *VocaChick*, *Hatch-a-Trait*, *MiteControl*, *VocalValence*, *Spectrol*, *SmartBroiler*, *OMELETTE*, *AthleticChick*

2014 – 2020 Doctoral Researcher (with Toon van Waterschoot and Peter Karsmakers), KU Leuven, Dept. of Electrical Engineering (ESAT), STADIUS Center for Dynamical Systems, Signal Processing and Data Analytics and ETC Technology Cluster Electrical Engineering, AdvISe / e-Media labs, Geel / Leuven, Belgium.

• Cf. Research Projects: *KU Leuven Impulse*, *SINS*

2011 Implementation Delivery Engineer, EMC^2 (acquired by Dell), Cairo, Egypt.

• Provided software integration and implementation support for data storage, management and security worldwide.

2010 Embedded Software Engineer, Valeo Automotive Inter-branch, Cairo, Egypt.

• Designed and implemented a validation test strategy for the top column module embedded controller units (TCM-ECU) for Daimler cars.
• Designed model validation for Park 4 You (P4U) system.

2009 Production Assistant, Azurline (Wood Handicraft Company), Italy, Florence.

• Responsible of the closets production line, Learning and applying process management.

Research Visits

May 2017 Machine Listening & Music Information Retrieval (Prof. Emmanouil Benetos), Center for Digital Music (C4DM), Queen Mary University of London, UK.

Research Areas

• Scientific disciplines: audio signal processing, machine learning, computer vision, embedded systems.

- Research topics: acoustic event detection [1, 15, 16, 19, 18, 20, 5], artificial intelligence [2, 9, 12, 13, 14, 15, 23], emotion recognition [1, 2, 4, 7, 9, 10, 23, 24], animal behaviour analysis [3, 4, 11, 12, 13, 14, 23, 25], one welfare [22], music signal analysis [15, 16, 17, 18, 19].

Awards and Honors

2017 FWO research visit grant supporting a stay at Queen Mary University of London, Center for Digital Music C4DM.

2016 EUSIPCO-2016 Best Paper Award (M. Mounir, P. Karsmakers, and T. van Waterschoot, "Guitar note onset detection based on a spectral sparsity measure"), 24th European Signal Process. Conf. (EUSIPCO'16), Budapest, Hungary, Aug. 2016

2014 "Premio Swiss Engineering Ticino" Best master thesis prize. This prize is awarded by the Swiss network of engineers and architects, Swiss Engineering – Ticino section.

2011 "Full Scholarship (Tuition and Accommodation for 2 years) offered by ALaRI (Advanced Learning and Research Institute) at the Università della Svizzera italiana to acquire a MSc degree in Embedded Systems Design.

2008 Bachelor graduation Project "Kenzoboy: a motion controlled gameboy" ranked first in EED (Egyptian Engineering Day) organized by IEEE - in the field of computer Engineering.

Research Projects

Involvement in research projects at KU Leuven (with Jean-Marie Aerts and Tomàs Norton)

2023-2025 *IDEAL: humanIty centereD onE heAlth Label (ideaLab-KUL)*
•Postdoctoral Researcher: proposal development, project co-coordination, workshop organisation.

2023–2028 *Omelette: OptiMise and Extend hen Longevity to Expedite the Transistion tot susTainable Eggs (NWE Interreg)*
•Postdoctoral Researcher: proposal development.
•External Partners: Experimental Poultry Centre (BE), Vencomatic Group (NL), Performance and Health Statistics BV (BE), Orbem (DE), HATO Agricultural Lighting BV (NL), University of Applied Sciences Osnabrück (DE), University of Bern (CH), Regional Chamber of Agriculture in Brittany (FR), INNOZH (FR), French Agency for Food, Environmental and Occupational Health & Safety ANSES (FR)

2022–2026 *Vocal Valence C2VV: Eavesdropping on Emotions: Using vocalisations to monitor positive avian welfare (C2 funds)*
•PhD Co-Advisor of Antonis Golfidis: Machine Listening and experimental tools for birds emotion induction and recognition.
•External Partners: Antwerp Zoo Centre for Research and Conservation.

2022 *Spectrol (consultancy): Light spectral recipes for bird welfare and production optimizations*
•Postdoctoral Researcher: Literature search and Solution proposal
•Collaboration with Industry: Explorentis Bvba (BE)

2022–2026 *Athletic Chicks: heAlTH and weLfare effect of Early nuTrition in broIler CHICKenS (VLAIO)*
•Postdoctoral Researcher: budgeting and implementation of audio data collection setup, audio processing
•External Partners: Ghent University, Pluimveeloket / ILVO Living Lab Veehouderij, Colruyt GROUP, PEHESTAT BV, Wageningen Livestock Research among others.

2021-2024 *VocaChick: Monitoring Chicks Stress through Vocalization (VLAIO)*
•Postdoctoral Researcher: data collection setup, machine listening for chick (thermal/hunger) stress detection, project management.
•PhD Co-Advisor of Özge Günaydın: deep learning audio processing, animal welfare.
•PhD Co-Advisor of Cui Gao: deep computer vision, mathematical models for group behavior.
•PhD Co-Advisor of Konstantinos Gkentsidis: deep learning audio processing, animal welfare.
•Collaboration with Industry: Petersime Nv. (Hatecheries and Incubators).

2020–2021 *Hatch-a-Trait: Trait imprinting for better poultry post-hatch production and welfare (VLAIO)*
•Postdoctoral Researcher: proof of concept of thermal stress detection based on birds vocalizations, IP literature study, project management
•PhD Co-Advisor of Sara Verlinden: Time and frequency domain analysis
•Collaboration with Industry: Petersime Nv. (Hatecheries and Incubators)

2020–2023 *Mite Control: Ensuring food safety, animal health and welfare standards through development of innovative IPM programmes to control poultry red mite infestations (Interreg NWE).*
•Postdoctoral Researcher: project management
•PhD Co-Advisor of Sam Willems: computer vision algorithms for bird group behaviour monitoring
•External Partners: Experimental Poultry Centre (BE), Koppert BV (NL), Belgabroed nv (BE), Institut Technique de l'Aviculture ITAVI(FR), RSK ADAS Ltd (UK), Université Paul-Valéry Montpellier 3 (FR)

2020–2021 *Smart Broiler: improving the sustainability and efficiency of their chicken supply chain (McDonald's initiative)*
•PhD Co-Advisor of Sam Willems: positive welfare assessment using deep learning
•Collaborators: Aarhus University among others.

Involvement in research projects at KU Leuven - Mobilab Campus Geel (with Bart van Rumste, Toon van Waterschoot and Peter Karsmakers)

2014–2018 *KU Leuven Impulse Project IMP/14/037 - Acoustic Event Detection: Sparse Signal Representations, Embedded Optimization Algorithms, and Case Studies*
•Doctoral Researcher: acoustic event detection (main PhD research topic)
•Info: 4 years, 185K€

2014 *SINS: Sound INterfacing through the Swarm*
•Doctoral Researcher: Algorithm design and implementation for audio processing
•Partners: KUL (ESAT – MICAS, ESAT – TELEMIC), iMinds, Vrije Universiteit Brussel – ETRO – DSSP, Katholieke Hogeschool Sint-Lieven – DraMCo.

Involvement in research projects with WudSIE

2024–2025 *Proximity Care 2050 Foresight study: Trends and Cross Impact Analysis*
•Postdoctoral Researcher: cross impact analysis implementation, results visualisation, paper co-development

Funding Proposals

- IDEAL: humanIty centereD onE heAlth Label (ideaLab-KUL internal funds)
  - Duration: 2 years
  - Budget 2.5K €
  - Contribution: proposal development and writing.
- VocaChick: Monitoring Chicks Stress through Vocalization (VLAIO)
  - Duration: 3 years (2021-2024)

  - Budget: 1.5 PhD and 1 Post-doc - (770K € KUL / 1.5M Total)
  - Contribution: Proposal development [Research Plan, Experimental Design (in collaboration with partner R&D), Work plan, Budget Estimation] and Proposal writing.
- Vocal Valence - C2VV: Eavesdropping on Emotions: Using vocalisations to monitor positive avian welfare (C2 Internal KU Leuven funds)
  - Duration: 4 years (2022–2026)
  - Budget: (580K €)
  - contribution [proposal development and writing (all parts linked to audio signal processing and machine learning methods), budget estimation (data collection setup and storage)].
- OMELETTE: OptiMise and Extend hen Longevity to Expedite the Transistion tot susTainable Eggs (NWE Interreg)
  - Duration: 4.5 years (2023–2028)
  - Budget: (570K € KUL / 6.3M € Total)
  - Contribution: project ideation, initiating collaboration agreement with partners, background IP definition, work plan, budget estimation for personnel and equipment.

PhD Mentoring

PhD Daily Advisor, *KU Leuven, Faculty of Bioscience Engineering*

2023– Antonis Golfidis
• Machine Listening and experimental tools for birds emotion induction and recognition. [Audio/Video processing]

2022– Özge Günaydın
• Deep Learning for day-old chick stress detection based on vocalizations. [Audio Processing]

2022 Konstantinos Gkentsidis
• Deep Learning for day-old chick stress detection based on vocalizations. [Audio processing]

2022– Cui Gao
• Day-old chicks group behaviour insights in response to thermal and hunger stress.[Computer Vision]

2021– Sam Willems,
• Poultry behaviour monitoring for welfare assessment. [Computer Vision]

2020–2022 Harold Taeter
• Analysing fish behavior with machine learning for automatic welfare assessment [Computer vision]

Informal Co-Advisor, *KU Leuven, Faculty of Bioscience Engineering*

2021–2022 Sara Verlinden
• Thermal manipulation during incubation of broilers: Implications for heat resilience, performance and behaviour. [Signal Processing]

Lecturing Activities

- Digital Design Concepts
  - Lectures, bachelor program
  - KU Leuven, Campus Group T and Campus Geel, academic year 2024–2025
- Modelling of Biosystems

  - Guest lectures, master program.
  - Lectures title: Audio processing and Machine Listening, Digital Signal Processing crash course
  - KU Leuven, Campus Arenberg, academic years 2020–2021, 2021–2022, 2022–2023 and 2023–2024
- Signal Processing Algorithms and Implementations (R&D Experience)
  - Guest Lecture ”Note onset detection and Beat Tracking”, master program
  - KU Leuven, Campus Groep T, academic year 2022–2023
- Sustainable Precision Livestock Farming (PLF)
  - Guest lecture, master program.
  - Lectures title: Audio processing for PLF
  - Campus Arenberg, academic years 2020–2021, 2021–2022, 2022–2023 and 2023–2024
- Signal Processing Algorithms and Implementations (R&D Experience)
  - Project Coaching and Evaluation (lectures: T. van Waterschoot), master program
  - Campus Groep T, academic year 2018–2019
- Linear Algebra
  - Lab exercises (lectures: Toon van Waterschoot), bachelor program.
  - Campus Groep T, academic year 2017–2018
- Digital Signal Processing
  - Lab exercises (lectures: Koen Eneman), bachelor program.
  - Campus Groep T, academic years 2017–2018 and 2018–2019
- System simulation (Matlab for digital signal processing)
  - Lectrures and Lab exercises, bachelor program.
  - Campus Geel, academic year 2015–2016

MSc Mentoring

2023–2024 Klaus Dillen, ”Chicken health monitoring by sneeze detection in noisy environments using few-shot machine learning”, Master of Artificial Intelligence (Leuven).

2023–2024 Jasper Geypens, ”Exploring indicators of hunger in day old chicks”, Bioscience Engineering.

2022–2023 Sébastien Jacquemart, ”Chicken call detector using machine learning techniques”, Master of Artificial Intelligence (Leuven).

2022–2023 Xiaohua Li, ”Estimating body temperature of a group of chickens based on surface temperature from thermal images”, Master of Artificial Intelligence (Leuven).

2021–2022 John Heymans, ”Chicks call detector: Performance comparison between a hand-crafted algorithm and a machine learning approach”, Master of Artificial Intelligence (Leuven).

2021–2022 Michiel Ghesquiere: ”development of a camera-based welfare monitoring tool for early detection of Poultry Red Mite-related behaviors in laying hens”, Bioscience Engineering.

2021–2022 Karel Vansteenwegen: ”Time and frequency domain analysis of eggshell heat flux and temperature during chicken embryonic development”, Bioscience Engineering.

2018–2019 Beau Janssens and Bram Cuyx, ”Smartphone based respiratory analysis of noisy breathing in children”, Engineering Technology, EICT, Groep T.

2017–2018 Simon Vos and Kristoff Fluyt, ”Detection for the presence of howling through machine learning”, Engineering Technology, EICT, Groep T.

2015–2016 Vincent Peeters, ””Automatic classification of bio-acoustic sounds for bio-monitoring”, ESAT.

MSc Thesis Assessment

2023–2024 Hektor Letraublon, ”Neural networks based distributed voice activity detectionin a wireless acoustic sensor network”, ESAT

2018–2019 Jozefien Claes and Patricia Navarro Martín, ”Exploring the Impact of Framing on Player Experience”, EICT, Groep T

2018–2019 Gaetan Van Mieghem, ”Classification of rattle sounds through machine learning”, EICT, Groep T

2017–2018 Hannelore Verhaegen and Lynn De Haes, ”Automation tool for the simulation of a solar cell array for solar cars”, EICT, Groep T

2017–2018 Han Zhang and Jiahao Pan, ”Learning Analytics on Educational Data”, EICT, Groep T

Peer-Review Activities

Technical reviewer for international Journals

- IEEE/ACM Transactions on Audio, Speech and Language.
- EURASIP Journal on Audio, Speech, and Music Processing.
- Biosystems Engineering.
- Animals, MDPI.

Technical reviewer for international Journals

- 22nd International Society for Music Information Retrieval Conference (ISMIR 2021)
- 21nst International Society for Music Information Retrieval Conference (ISMIR 2020)

Conference Organization

Jan. 2024 IDEAL 1st Workshop organisation: [project introduction, survey results presentation, brain storming activities design and results summarizing.]

Aug. 2023 Behaviour 2023: Symposium Organisation: ”Acoustic environments for monitoring and managing animal health and behaviour”, [call writing, abstracts review, plenary talk invitation, one abstract/talk preparation] in collaboration with P.B. Kringwatana and T. Norton, (ASAB Summer) Bielefeld University, Germany.

Outreach Activities

Oct. 2025 “L’Intelligence Artificielle en Santé : De la Théorie à l’Éthique Clinique”, organized by Ethics Committee of Cliniques Saint Pierre Ottignies (CSPO), Ottignies, Belgium

Sept. 2025 “Design Thinking Workshop for Peace Leaders project - an incubator of youth peace initiatives”, organised by Dialogue 4 All (D4A), Leuven, Belgium

Apr. 2025 Invited talk: “Career in Academia for PhDs - Personal Testimonial” organized by YouReCa, KU Leuven, Belgium.

Jan. 2024 Discussion Panel about health monitoring sensors: “One Health workshop - Innovation”, organized by Belgian One Health Network, SCIENSANO, Brussels, Belgium

Mar. 2023 Invited talk: “Anticiper la recrudescence de poux rouges par analyse d’images (Deep Learning - Segmentation)”, Journée Poules Pondeuses, ITAVI, Valence, France

Mar. 2023 Invited talk: “Career in Academia for PhDs” organized by YouReCa, KU Leuven, Belgium.

Nov. 2022 Invited talk: “Anticiper la recrudescence de poux rouges par analyse d’images (Gaussian Mixture Models)”, Journée Poules Pondeuses, ITAVI, Pacé, France

Memberships

- European Association For Signal Processing (EURASIP).
- European Acoustics Association (EAA).
- Belgische Akoestische Vereniging (ABAV).
- Belgische Akoestische Vereniging, Belgian Young Acousticians Network (ABAV B-YAN).
- The International Society for Music Information Retrieval (ISMIR).
- Leuven One Health Institute.

List of Publications

PhD Thesis

[1] M.Mounir, ” Acoustic Event Detection: Feature, Evaluation and Dataset Design”, PhD dissertation, KU Leuven, Leuven, Belgium, 2020, https://lirias.kuleuven.be/3037054?limo=0

Book Chapters

[2] E. Vranken, M. Mounir, T. Norton, “Sound-Based Monitoring of Livestock,” Encyclopedia of Smart Agriculture Technologies, Springer Nature AG 2023 DOI: 10.1007/978-3-030-89123-7_129-1.

Peer-reviewed Journal Papers

[3] C. Gao, Ö. Günaydın, M. Mounir, H. Willemsen, F. Vanlerberghe, E. Romanini, T. Norton, ”Assessing thermal comfort for day-old broilers: A novel thermal stress index using computer vision.” Biosystems Engineering, Volume 260, 2025, DOI:10.1016/j.biosystemseng.2025.104302

[4] Ö. Günaydın, M. Mounir, C. Gao, F. Vanlerberghe, E. Romanini, H. Willemsen, T. Norton, ”Automating thermal stress detection in chicks using convolutional recurrent neural networks for enhanced poultry welfare.” Animal Science proceedings, Volume 16, Issue 4, 2025, DOI:10.1016/j.anscip.2025.08.249

[5] M. Mounir, G. Bernardi, and T. van Waterschoot, ”Robust and Early Howling Detection Based on a Sparsity Measure.” EURASIP Journal on Audio, Speech, and Music Processing, 2025, p.14 DOI:10.1186/s13636-025-00399-1

[6] S. Willems, M. Mounir, T. Van Hertem, H. Nijs, N. Sleeckx, and T. Norton, ”Monitoring night-time activity and perch occupation of laying hens using night-vision cameras for the early detection of poultry red mite” Applied Animal Behaviour Science 2025. DOI:10.1016/j.applanim.2025.106517

[7] A. Golfidis, B.P. Kriengwatana, M. Mounir, T. Norton. “An Interactive Feeder to Induce and Assess Emotions from Vocalisations of Chickens,” Animals 2024, 14, 1386. DOI: 10.3390/ani14091386

[8] M. Mounir, P. Karsmakers, and T. van Waterschoot, "Musical note onset detection based on a spectral sparsity measure," EURASIP Journal on Audio, Speech, and Music Processing, 2021, pp.1-17. DOI:10.1186/s13636-021-00214-7

Peer-reviewed Conference Papers

[9] C. Gao, M. Mounir, Ö. Günaydin, F. Vanlerberghe, E. Romanini, H. Willemsen, T. Norton, "Enhancing Thermal Comfort Assessment in Day-Old Broilers: A Cluster Index Approach Utilizing Computer Vision Techniques", 11th European Conference on Precision Livestock Farming (ECPLF); Bologna, Italy, 2024.

[10] A. Golfidis, P.B. Kriengwatana, M. Mounir, T. Norton, "Decoding emotional states of laying hens: A novel approach of inducing and assessing emotions of laying hens using their vocalisations", 11th European Conference on Precision Livestock Farming (ECPLF); Bologna, Italy, 2024.

[11] B.P.Kriengwatana, O. Günaydin, M. Mounir, J. Buyse, T. Norton, "Preliminary evidence of an effect of prenatal sound on postnatal thermoregulation in broiler chicks" 2023 Combined Workshop of EF WPSA Working Groups: WG 6 (Incubation and Fertility) and WG 12 (Physiology), Wrocław, Poland, 2023.

[12] S. Willems, M. Ghesquiere, D. Liu, M. Mounir, and T. Norton. "Development of a camera-based hybrid approach for the early detection of poultry red mite-related behaviors in individual laying hens." In The XX CIGR World Congress 2022, Kyoto International Conference Center, Kyoto, Japan 2022.

[13] S. Willems, M. Mounir, D. Liu, T. Van Hertem, H. Nijs, P. Créach, N. Sleeckx, E. Vranken, and T. Norton. "Towards an Automated Camera-Based Monitoring System for Poultry Red Mite Outbreaks." 10th European Conference on Precision Livestock Farming (ECPLF), pp.143-150.; University of Veterinary Medicine Vienna, Austria, 2022.

[14] S. Williams, S. N. Rasmussen, D. Liu, M. Mounir, A. Brinch Riber, and T. Norton. "Quantifying specific behaviours related to positive and negative broiler welfare: a preliminary study." In 10th European Conference on Precision Livestock Farming (ECPLF), pp. 994-998.University of Veterinary Medicine Vienna, Austria, 2022.

[15] M. Mounir, P. Karsmakers, and T. van Waterschoot, "CNN-based Note Onset Detection using Synthetic Data Augmentation," in Proc. 28th European Signal Process. Conf. (EUSIPCO '20), Amsterdam, Netherlands, Aug. 2020.

[16] M. Mounir, P. Karsmakers, and T. van Waterschoot, "Annotations Time Shift: A Key Parameter in Evaluating Musical Note Onset Detection Algorithms," in Proc. 2019 IEEE Workshop Appls. Signal Process. Audio Acoust. (WASPAA '19), New Paltz, NY, USA, Oct. 2019, pp.21–25.

[17] M. Mounir, and T. van Waterschoot. "Note Onset Detection based on a spectral sparsity measure applied to strings instruments." In Digital Music Research Network One-day workshop (DMRN+ 11), London, UK, pp. 1-1. 2016.

[18] M. Mounir, P. Karsmakers, and T. van Waterschoot, "Guitar note onset detection based on a spectral sparsity measure," in Proc. 24th European Signal Process. Conf. (EUSIPCO '16), Aug. 2016, Budapest, Hungary, pp. 978–982. [Best Paper Award]

Software Repositories

[19] M. Mounir, "Mix-Notes: a Tool for automatically annotated (onset-offset) dataset generation" gitlab.esat.kuleuven.be/Mina.Shehata/mix-notes

Data Repositories

[20] M. Mounir, G. Bernardi, and T. van Waterschoot, "Howling Corrupted Music and Speech dataset (HCMS)" (2020). https://lirias.kuleuven.be/3119197&lang=en

Submitted Journals

[21] A. Verduci, D. Biondani, L. M. Antonangeli, O. Franzè, M. Fabrizi, M. Castelli, A. Rondi, A. Augusto, M. Mounir, M. Pistolesi, F. Masci, "Early Steps in Strategic Foresight for Proximity Care in Central Italy: Towards a 2050 Roadmap". (Contribution:Data visualization and Cross Impact Analysis implementation.)

Accepted Abstracts

[22] F. Masci, M. Mounir, P. Kriengwatana, D. Liu, R. Boudewijns, R. Cuypers, L. Hallez, G.L. Höhn, C. Depoorter, H. Ameye Ameye, L. Vranken, J.M. Aerts, "IDEAL: Integrating Humanity-Centered Design and One Health Principles for Sustainable Development", 22nd Triennial Congress of the International Ergonomics Association (IEA), Aug 2024, ICC JEJU, Republic of Korea.

[23] M. Mounir, T. Norton, "Do chicks vocalise more or vocalise differently under thermal stress conditions? Towards automated chicks' stress monitoring based on their vocalisations" in Proc. of XI European Symposium on Poultry Welfare ESPW, Prague, Czech Republic 2023.

[24] P.K. Buddhamas, M. Mounir, and T Norton. "Eavesdropping on emotions: using vocalisations to monitor positive welfare in birds." In 15th Annual ZOO Research Symposium, Location: Antwerp, Belgium. 2022.

[25] H. Taeter, T. Norton, and M. Mounir, "Fish Posture Tracking in Standard Experimental Setups." In ASAB Easter, Virtual meeting, 2021.

Journals in preparation

1. "L'éclairage de la bioéthique de Van Rensselaer Potter sur les lien de l'IA et du développement durable à l'hôpital", a collaboration with prof. G. Wieërs.

Conference Lectures

1. "Do chicks vocalise more or vocalise differently under thermal stress conditions? Towards automated chicks' stress monitoring based on their vocalisations" XI European Symposium on Poultry Welfare (ESPW 2023), Prague, Czech Republic, June 2023.
2. "CNN-based Note Onset Detection using Synthetic Data Augmentation," 28th European Signal Process. Conf. (EUSIPCO '20), Amsterdam, Netherlands, Aug. 2020.
3. "Guitar note onset detection based on a spectral sparsity measure," 24th European Signal Process. Conf. (EUSIPCO '16), Budapest, Hungary, Aug. 2016.

Poster Presentations

1. "Annotations Time Shift: A Key Parameter in Evaluating Musical Note Onset Detection Algorithms," IEEE Workshop Appls. Signal Process. Audio Acoust. (WASPAA '19), New Paltz, NY, USA, Oct. 2019.