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Research topics

- Noise Annoyance (sources in isolation and combined noise sources)
- Vibration and Noise Annoyance (in isolation and combined)
- Soundscape
- Sound quality of structures.

Publications since 2005

Publications HAL

(contact me if you need a reference not available to you)

VALLIN, P.-A., MARQUIS-FAVRE C., GILLE, L.-A., et ELLERMEIER, W. (2018).
« Selection of a sound propagation model for noise annoyance prediction: A perceptual approach ». *The Journal of the Acoustical Society of America*, 1433, 1283-1286.
<http://doi.org/10.1121/1.5025849>

GILLE L.-A., MARQUIS-FAVRE C. and LAM K.-C.
Partial and Total Annoyance Due to Road Traffic Noise Combined with Aircraft or Railway Noise: Structural Equation Analysis. *International Journal of Environmental Research and Public Health*, special issue *Noise-Related Annoyance*, 14(12), 1478, 1-18, 2017. [doi:10.3390/ijerph14121478](https://doi.org/10.3390/ijerph14121478)

MAIGROT P., MARQUIS-FAVRE C. AND PARIZET E.
Two laboratory methods of assessing annoyance due to railway noise and vibration (L). *J. Acoust. Soc. Am.* 142 (5), 3284-3287, November 2017. <https://doi.org/10.1121/1.5012739>

Klein, A., Marquis-Favre, C., et Champelovier, P. (2017).
Assessment of annoyance due to urban road traffic noise combined with tramway noise. *The Journal of the Acoustical Society of America*, 1411, 231-242, 2017.
<http://doi.org/10.1121/1.4973518>

GILLE L.-A., MARQUIS-FAVRE C. and WEBER R.
Aircraft noise annoyance modeling: Consideration of noise sensitivity and of different annoying acoustical characteristics. *Applied Acoustics*, 115, 139-149, 2017. <http://dx.doi.org/10.1016/j.apacoust.2016.08.022>

GILLE L.-A., MARQUIS-FAVRE C. and WEBER R.
Noise sensitivity and loudness derivative index for urban road traffic noise annoyance computation. *J. Acoust. Soc. Am.*, 140 (6), 4307-4317, 2016. doi: 10.1121/1.4971329

GILLE L.-A., MARQUIS-FAVRE C. and MOREL J.
Testing of the European Union exposure-response relationships and annoyance equivalents model for annoyance due to transportation noises: the need of revised exposure-response

relationships and annoyance equivalents model.
Environment International, Vol.94, September, Pages 83–94, 2016.
[doi:10.1016/j.envint.2016.04.027](https://doi.org/10.1016/j.envint.2016.04.027)

GILLE L.-A., MARQUIS-FAVRE C. and KLEIN, A.
Noise annoyance due to urban road traffic with powered-two-wheelers: quiet periods, order and number of vehicles.
Acta Acustica united with Acustica, 102, 474 – 487, 2016.

MOREL J., MARQUIS-FAVRE C., GILLE L.-A.
Noise annoyance assessment of various urban road vehicle pass-by noises in isolation and combined with industrial noise: A laboratory study.
Applied Acoustics, 101, 47–57, 2016. <http://dx.doi.org/10.1016/j.apacoust.2015.07.017>

MARQUIS-FAVRE, C., MOREL, J.
A simulated environment experiment on annoyance due to combined road traffic and industrial noises.
International Journal of Environmental Research and Public Health, Special issue *The Combined Health Effects of Environmental Exposures*, 12(7), 8413-8433, 2015.

TROLLÉ, A., TERROIR, J., LAVANDIER, C., MARQUIS-FAVRE, C. and LAVANDIER, M.
Impact of urban road traffic on sound unpleasantness: A comparison of traffic scenarios at crossroads
Applied Acoustics, 94(7), 46–52, 2015. [doi:10.1016/j.apacoust.2015.02.008](https://doi.org/10.1016/j.apacoust.2015.02.008)

TROLLÉ, A., MARQUIS FAVRE, C. and PARIZET, E.
Perception and annoyance due to vibrations in dwellings generated from ground transportation: A review.
Journal of Low Frequency Noise, Vibration and Active Control, 34(4), 413-458, 2015.

KLEIN, A., MARQUIS-FAVRE, C., WEBER, R. and TROLLÉ,
A. *Spectral and modulation indices for annoyance-relevant features of urban road single-vehicle pass-by noise.*
J. Acoust. Soc. Am., 137(3), 1238-1250, 2015. <http://dx.doi.org/10.1121/1.4913769>.

TROLLÉ, A., MARQUIS-FAVRE, C. and KLEIN, A.
Corrigendum to Short-term annoyance due to tramway noise: Determination of an acoustical indicator of annoyance via multilevel regression analysis. Acta Acustica united with Acustica, 101(1), 205-205, 2015.

TROLLÉ, A., MARQUIS FAVRE, C. and KLEIN, A.
Short-term annoyance due to tramway noise: Determination of an acoustical indicator of annoyance via multilevel regression analysis. Acta Acustica united with Acustica, 100(1), 34-45, 2014.

TROLLE A., MARQUIS-FAVRE C. HAMZAOUI N.
Auditory evaluation of sounds radiated from a vibrating plate inside a damped cavity: adjustment of the frequency resolution of vibro-acoustical computing.
Acta Acustica united with Acustica, 98(3), 441-450, 2012.

MOREL J., MARQUIS-FAVRE C., VIOLLON S., ALAYRAC M.
A laboratory study on total noise annoyance due to combined industrial noises.
Acta Acustica united with Acustica, 98(2), 286-300, 2012.

MOREL J., MARQUIS-FAVRE C., DUBOIS D., PIERRETTE M.
Road traffic in urban areas: a perceptual and cognitive typology of pass-by noises.
Acta Acustica united with Acustica, 98(1), 166-178, 2012.

PIERRETTE M., MARQUIS-FAVRE C., MOREL J., RIOUX L., VALLET M., VIOLLON S., MOCH A.
Noise annoyance due to industrial and road traffic combined noises: a survey and a total annoyance model comparison.
Journal of Environmental Psychology, 32(1), 178-186, 2012.

PIERRETTE M., MARQUIS-FAVRE C., MOREL J., RIOUX L., VALLET M., VIOLLON S., MOCH A.
Corrigendum to "Noise annoyance due to industrial and road traffic combined noises: a survey and a total annoyance model comparison" [J. Environ. Psychol., 32(2), 2012],
Journal of Environmental Psychology, 32(3), 285, 2012.

ALAYRAC, M., MARQUIS FAVRE, C. and VIOLLON, S.
Total annoyance from an industrial noise source with a main spectral component combined with a background noise
Journal of The Acoustical Society of America, 130(1), 189-199, 2011.
DOI:10.1121/1.3598452

ALAYRAC, M., C. MARQUIS-FAVRE, VIOLLON, S., MOREL, J. et LE NOST, G.
Annoyance from industrial noise: indicators for a wide variety of industrial sources
J. Acoust. Soc. Am., Vol. 128, No. 3, 1128-1139, 2010. DOI:10.1121/1.3466855

HAMZAOU, N., TROLLÉ, A. and MARQUIS FAVRE, C.
Benefit of sound perception for the analysis of acoustic radiation inside a cavity.
Mécanique & Industries, 11(5), 427-433, 2010.

TROLLE, A., MARQUIS-FAVRE, C., HAMZAOU, N.,
Auditory evaluation of sounds radiated from a vibrating plate inside a damped cavity.
Acta Acustica united with Acustica, 95(2), 343-355, 2009.

MARQUIS-FAVRE C., FAURE J.
Auditory evaluation of sounds radiated from a vibrating plate with various viscoelastic boundary conditions
Acta Acustica united with Acustica, 94(3), 419-432, 2008.

TROLLÉ A., MARQUIS-FAVRE C., FAURE J.
An analysis of the effects of structural parameter variations on the auditory perception of environmental noises transmitted through a simulated window
Applied Acoustics, 69(12), 1212-1223, 2008

FAURE J., MARQUIS-FAVRE C.

Perceptual assessment of structural parameters influence for a radiating plate

Acta Acustica United with Acustica, 91(1), 77-90, 2005

MARQUIS-FAVRE C., PREMAT E., AUBREE D.

Noise and its effects - A review on qualitative aspects of sound. Part II : Noise and annoyance

Acta Acustica United with Acustica, 91(4), 626-642, 2005

MARQUIS-FAVRE C., PREMAT E., AUBREE D., VALLET M.

Noise and its effects - A review on qualitative aspects of sound. Part I : Notions and acoustic ratings

Acta Acustica United with Acustica, 91(4), 613-625, 2005