

Acoustic analysis of small engine catalytic converters : SAE 2010-32-0022

Lavrentjev, Jüri; Rämmal, Hans SAE technical papers 2010 / [12] p

Acoustic source data for fans

Lavrentjev, Jüri; Abom, Mats; Boden, Hans Acustica 1996

Acoustic studies of micro-perforates for small engine silencers

Kabral, Raimo; Rämmal, Hans; Lavrentjev, Jüri SAE technical papers 2012 <https://www.sae.org/publications/technical-papers/content/2012-32-0107/>

Acoustic studies on small engine silencer elements

Kabral, Raimo; Rämmal, Hans; Lavrentjev, Jüri; Auriemma, Fabio SAE technical papers 2011 / [8] p. : ill

Acoustic study of multi-layered microperforated elements for fibreless noise control applications

Villau, Margus; Rämmal, Hans; Lavrentjev, Jüri IOP conference series : materials science and engineering 2021 / art. 012015, 7 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012015>

Acoustic study of novel eco-friendly material for vehicle NVH applications

Rämmal, Hans; Lavrentjev, Jüri Materials today: proceedings 2020 / p. 2331-2337 <https://doi.org/10.1016/j.matpr.2020.04.632>
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Acoustic study on motorcycle helmets with application of novel porous material

Lavrentjev, Jüri; Rämmal, Hans SAE Technical Paper Series : The 25th Small Engine Technology Conference (SETC2019) : Small Powertrains—Innovating for Their Future Role, International Conference Center Hiroshima, November 19-21, 2019 : Final program 2020 / Paper 2019-32-0531, p. 1-7 : ill <https://www.sae.org/publications/technical-papers/content/2019-32-0531/> http://www.setc-sae.com/2019docs/SETC2019_FinalProgram_all.pdf [Conference proceedings at Scopus](#) [Article at Scopus](#)

Acoustic study on tubular micro-perforated flow plug sections for vehicle silencer's application

Villau, Margus; Rämmal, Hans; Lavrentjev, Jüri SAE Technical Paper 2022 / p. 1-7 <https://doi.org/10.4271/2022-01-0933>
<https://www.sae.org/publications/technical-papers/content/2022-01-0933/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Aero-acoustic studies and innovative noise control with application to modern automotive gas exchange system = Kaasaegse automootori gaasivahetussüsteemide aeroakustilised uuringud ja müra vähendamise innovaatilised meetodid

Kabral, Raimo 2015 <https://digi.lib.ttu.ee/i/?2502> https://www.ester.ee/record=b4481436*est

Application of novel micro-grooved elements to small engine silencer

Auriemma, Fabio; Rämmal, Hans; Lavrentjev, Jüri SAE Technical Papers 2013 / [10] p.: ill <https://www.sae.org/publications/technical-papers/content/2013-32-9001/> <https://doi.org/10.4271/2013-32-9001> [Journal metrics at Scopus](#) [Article at Scopus](#)

Autode väljalaskesummutid

Lavrentjev, Jüri Tehnika ja Tootmine 1991 / 9/10, lk. 55-57: ill

Autode õhutakistus

Lavrentjev, Jüri Liiklusleht : Tallinna Ühiskondliku Autoinspektsiooni Nõukogu eriväljaanne koostöös Tallinna Liikluspolitsei ja ühistuga "Purila" 1988 / lk. 4 https://www.ester.ee/record=b1252058*est

Autolabor uuenes silmnähtavalt : [autotehnika õppetooli autolabor kolis ümberehitatud ja renoveeritud ruumidesse Kopli 116]

Lavrentjev, Jüri Mente et Manu 2001 / 3. mai, lk. : fot https://www.ester.ee/record=b1242496*est

Autonduse käsiraamat

2014 https://www.ester.ee/record=b4433745*est

Characterisation of fluid machines as acoustic two-port sources

Abom, Mats; Boden, Hans; Lavrentjev, Jüri Proceedings INTER-NOISE '93, Belgium 1993 / p. 1235-1238

A complete acoustic analysis on the passive effect of small engine silencer elements

Kabral, Raimo; Rämmal, Hans; Lavrentjev, Jüri; Auriemma, Fabio Proceedings of International Congress on Sound and Vibration (ICSV18) : Rio de Janeiro, Brazil, 10 to 14 July 2011 2011

Concept study of sustainable noise control solution for HVAC systems based on microperforated elements

Villau, Margus; Rämmal, Hans; Lavrentjev, Jüri Proceedings of the Estonian Academy of Sciences 2021 / p. 461-469 : ill <https://doi.org/10.3176/proc.2021.4.13> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Damping of acoustic waves in straight ducts and turbulent flow conditions

Tiikoja, Heiki; Auremma, Fabio; Lavrentjev, Jüri SAE Technical Paper Series : 9th International Styrian Noise, Vibration & Harshness Congress : The European Automotive Noise Conference 2016 / Paper 2016-01-1816, p. 1-9 : ill
<https://doi.org/10.4271/2016-01-1816> [Conference Proceedings at Scopus](#) [Article at scopus](#)

Dedicated testrig for acoustic characterization of automotive silencers

Lavrentjev, Jüri; Rämmal, Hans Proceedings of the ICSV 16 : The 16th International Congress on Sound and Vibration : Krakow, Poland, 5-9 July, 2009 2009 / [6] p
https://www.researchgate.net/publication/287088587_Dedicated_testrig_for_acoustic_characterization_of_automotive_silencers

Design and performance of acoustic metamaterial structure for inlet duct noise attenuation

Lavrentjev, Jüri; Rämmal, Hans SAE Technical Papers 2017 / 2017-32-0066, [6] p. : ill <https://www.sae.org/publications/technical-papers/content/2017-32-0066/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Design and performance of acoustic metamaterial structure for inlet duct noise attenuation [Online resource]

Lavrentjev, Jüri; Rämmal, Hans SETC 2017 : 23rd Small Engine Technology Conference "Small Engine Technology - Generating a Promising Future", November 15-17, 2017 Jakarta, Indonesia : Final program : SAE Technical Paper 2017 / 2017-32-006, p. 37
http://www.setc-jsae.com/past_docs/2017/list_of_paper.pdf

Determination of acoustic properties for open duct termination in hot jet conditions using FEM simulation

Rämmal, Hans; Lavrentjev, Jüri Proceedings of the 14th International Congress on Sound and Vibration (ICSV 14) : Cairns (Australia), 9-12 July, 2007 2007 / ? p
https://www.researchgate.net/publication/315747798_DETERMINATION_OF_ACOUSTIC_PROPERTIES_FOR_OPEN_DUCT_TERMINATION_IN_HOT_JET_CONDITIONS_USING_FEM_SIMULATION

Determination of one-port source data for fans via scaling laws and lumped models

Lavrentjev, Jüri 1998

Determination of source impedance of fluid machines by lumped element model [Electronic resource]

Lavrentjev, Jüri Proceedings of 17-th International Congress of Acoustics (ICA 2001) : September 2-7, 2001, Rome, Italy 2001 / [3] p. [CD-ROM]
https://www.researchgate.net/publication/297707838_Determination_of_Source_Impedance_of_Fluid_Machines_by_Lumped_Element_Model

Detsibellide vastu

Lavrentjev, Jüri Liiklusleht : Tallinna Ühiskondliku Autoinspektsiooni Nõukogu eriväljaanne koostöös Tallinna Liikluspolitsei ja ühistuga "Purila" 1988 / lk. 6 https://www.ester.ee/record=b1252058*est

Eesti elektriprojekt ja liigne optimism

Lavrentjev, Jüri Eesti Päevaleht 2011 / lk. 3 <https://epl.delfi.ee/artikkel/51298852/eesti-elektriautoprojekt-ja-liigne-optimism>

Endurance of micro-perforated elements in unmanned ground vehicle's small diesel engine silencer application

Rämmal, Hans; Lavrentjev, Jüri SAE Technical Paper Series : The 25th Small Engine Technology Conference (SETC2019) : Small Powertrains—Innovating for Their Future Role, International Conference Center Hiroshima, November 19-21, 2019 : Final program 2020 / Paper 2019-32-0533, p. 1-8 http://www.setc-jsae.com/2019docs/SETC2019_FinalProgram_all.pdf [Conference proceedings at Scopus](#) [Article at Scopus](#)

Experimental acoustic characterization of automotive inlet and exhaust system = Autode sisse- ja väljalaskesüsteemi akustilised katsetusuuringud

Tiikoja, Heiki 2014 https://www.ester.ee/record=b3062700*est

Experimental acoustic characterization of IC-engine simulated hot exhaust system

Rämmal, Hans; Lavrentjev, Jüri Proceedings of INTER-NOISE 2004 / ? p

Experimental concept study of a small engine silencer unit based on microperforated elements

Villau, Margus; **Rämmal, Hans; Lavrentjev, Jüri** Proceedings of the Estonian Academy of Sciences 2024 / p. 159-167 : ill., fot
<https://doi.org/10.3176/proc.2024.2.09> https://www.ester.ee/record=b2355998*est

Experimental determination of acoustic reflection coefficient of duct openings in simulated hot conditions [Electronic resource]

Rämmal, Hans; Lavrentjev, Jüri Proceedings of 33-th International Congress and Exposition on Noise Control Engineering : INTERNOISE2005 : 07-10 August 2005, Rio de Janeiro, Brazil 2005 / ? p. [CD-ROM]
<https://www.ingentaconnect.com/contentone/ince/incecp/2005/00002005/00000007/art00035>

Experimental investigations of sound reflection from hot and subsonic flow duct termination

Tiikoja, Heiki; Lavrentjev, Jüri; Rämmal, Hans; Abom, Mats Journal of sound and vibration 2014 / p. 788-800 : ill
<https://doi.org/10.1016/j.jsv.2013.09.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental methods for determining the source characteristics of fans modelled as acoustic one-port sources
Boden, Hans; Abom, Mats; **Lavrentjev, Jüri** Proceedings of FAN NOISE Symposium 92, CETIM, France 1992 / p. 351-358

Experimental methods for sound propagation studies in automotive duct systems
Rämmal, Hans 2007 https://www.ester.ee/record=b2298297*est

Experimental study of noise barrier boards with increased acoustic performance by utilizing Helmholtz resonator effects
Lavrentjev, Jüri; Rämmal, Hans Materials today: proceedings 2020 / p. 2566-2571 <https://doi.org/10.1016/j.matpr.2020.05.402>
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Extended investigations on micro-grooved elements - a novel solution for noise control
Auriemma, Fabio; Rämmal, Hans; Lavrentjev, Jüri SAE international journal of materials and manufacturing 2014 / p. 184-194 : ill
<https://doi.org/10.4271/2013-24-0068> [Journal metrics at Scopus](#) [Article at Scopus](#)

FISITA aastakongressil Helsingis
Lavrentjev, Jüri Transport ja Teed 2002 / 7/8, lk. 25-27 https://artiklid.elnet.ee/record=b1010353*est

Green eco-friendly acoustic materials
Lavrentjev, Jüri IOP conference series : materials science and engineering 2021 / art. 012009, 6 p.: ill <https://doi.org/10.1088/1757-899X/1140/1/012009>

Improvement of safety and health of the population of Tallinn with the aim of prolonging life
Tint, Piia; Munter, Rein; Siirde, Andres; Möller, Kalju; Konts, Peep; Siirak, Virve; Lavrentjev, Jüri Avoiding Aging Catastrophe : proceedings of the international symposium : 28-29 January 2002, Tallinn, Estonia 2002 / p. 65-70

Innovative fibreless HVAC duct silencer based on microperforated elements
Villau, Margus; Rämmal, Hans; Lavrentjev, Jüri Materials today: proceedings 2021 / 7 p. : ill
<https://doi.org/10.1016/j.matpr.2021.06.201> [Journal metrics at Scopus](#) [Article at Scopus](#)

Investigation of wave propagation and reflection in ducts with arbitrary environment using threemicrophone method
Lavrentjev, Jüri; Tiikoja, Heiki INTER-NOISE 2008 : 37th International Congress and Exposition on Noise Control Engineering : Shanghai, 26-29. October 2008 : proceedings. Vol 3 2009 / p. 1623-1629

Jüri Lavrentjev: uuringud ei kinnita tuulikute mõju tervisele [Võrguväljaanne]
Lavrentjev, Jüri online.le.ee 2021 ["Jüri Lavrentjev: uuringud ei kinnita tuulikute mõju tervisele"](https://www.ester.ee/record=b2298297*est)

Kutsestandard : liikuvusinsener, tase 6 [Võrguväljaanne]
2018 <https://www.kutseregister.ee/ctrl/et/Standardid/exportPdf/10722384/>

Kutsestandard : liikuvusinsener, tase 7 [Võrguväljaanne]
2018 <https://www.kutseregister.ee/ctrl/et/Standardid/exportPdf/10722406/>

Leiutajad ootavad riigi toetust oma ideede elluviimiseks : [mainitud ka TTÜ osa leiutiste kasulikkuse analüüsis, TTÜ prof. Jüri Lavrentjevi kommentaariga]
Günter, Aleksei; Popp, Marika; **Lavrentjev, Jüri** Postimees 2005 / 2. juuni, lk. 8-9 : ill <https://www.postimees.ee/1479497/leiutajad-ootavad-riigi-toetust-oma-ideede-elluviimiseks>

A linearity test for acoustic one-port sources
Lavrentjev, Jüri; Boden, Hans; Abom, Mats Journal of sound and vibration 1992 / 3, p. 534-539

Loodusseadused kehtivad ka vee all : [TTÜ autotehnika professori Jüri Lavrentjevi sukeldumishuvist]
Lavrentjev, Jüri Mente et Manu 2016 / lk. 16-17 : fot https://artiklid.elnet.ee/record=b2758763*est

Masinaehitustehnoloogia kateeder ja masinaehituse instituut 1918-2015
2015 https://www.ester.ee/record=b4504552*est

Micro-grooved elements - a novel solution for noise control
Auriemma, Fabio; Rämmal, Hans; Lavrentjev, Jüri SAE international journal of material and manufacturing 2013 / p. 599-610 : ill
<https://doi.org/10.4271/2013-01-1941> [Journal metrics at Scopus](#) [Article at Scopus](#)

Modelling of fluid machines as sources of sound in duct and pipe systems
Lavrentjev, Jüri; Abom, Mats; Boden, Hans INTER-NOISE 96, Southampton, 1996 1996
https://www.researchgate.net/publication/285343911_Modelling_of_fluid_machines_as_sources_of_sound_in_duct_and_pipe_systems

Multi-port models for source characterization of fluid machines : Doctoral thesis 1998

Lavrentjev, Jüri 1998 https://www.ester.ee/record=b1351999*est

Noise from turbo-charged diesel engine exhaust systems

Lavrentjev, Jüri Proceedings of 12. International Congress on Sound and Vibration : 11-14 July 2005, Lisbon, Portugal 2005 / ? p
<https://www.diva-portal.org/smash/get/diva2:740085/FULLTEXT01.pdf>

A novel design for cruiser type motorcycle silencer based on micro-perforated elements

Kabral, Raimo; Rämmal, Hans; Auriemma, Fabio; Luppin, Janek; Kõiv, Risto; Tiikoja, Heiki; Lavrentjev, Jüri SAE technical papers 2012 https://www.researchgate.net/publication/236005547_A_Novel_Design_for_Cruiser_Type_Motorcycle_Silencer_Based_on_Micro-Perforated_Elements

On Acoustic Properties of Duct Termination Exhausting Hot Flow by Utilizing FEMSimulation

Rämmal, Hans; Lavrentjev, Jüri Evolutions in mechanical engineering 2021 / art. EME.000565
<https://crimsonpublishers.com/eme/fulltext/EME.000565.php>

On experimental techniques to determine acoustic performance of small exhaust silencers : SAE tech. paper no. 2009-32-0015

Lavrentjev, Jüri; Rämmal, Hans SAE Technical Papers 2009 / [6] p <https://www.sae.org/publications/technical-papers/content/2009-32-0015/>

On the acoustic reflection at pipe opening

Rämmal, Hans; Lavrentjev, Jüri; Tiikoja, Heiki Proceedings of the 17th International Congress on Sound & Vibration (ICSV17) : Cairo, 18-22 July 2010 2010 / [8] p

On the modelling of fluid machines as acoustic N-port sources

Lavrentjev, Jüri Proceedings of International Conference INTER-NOISE 94, Japan, Yokohama, August 1994 1994 / p. 379-382
<https://www.ingentaconnect.com/contentone/ince/incecp/1994/00001994/00000006/art00065;jsessionid=cpl3u5bbp88g.x-ic-live-02>

Prediction of 1-port source data for centrifugal fans

Lavrentjev, Jüri Proceedings of International Conference INTER-Noise 98, Christchurch, New Zealand, 1998 1998 / p. 310-313

Professor Lavrentjev kurikuulsa infraheli ohtlikkuse uurimisest: teeme ära!

postimees.ee 2025 <https://www.postimees.ee/8189658/otse-postimehest-professor-juri-lavrentjev-kurikuulsa-infraheli-ohtlikkuse-uurimisest-teeme-ara>

Professor: soolapuhujad omistavad infrahelile müstilisi omadusi

Piir, Rait novaator.err.ee 2025 [Professor: soolapuhujad omistavad infrahelile müstilisi omadusi](https://www.postimees.ee/8189658/otse-postimehest-professor-juri-lavrentjev-kurikuulsa-infraheli-ohtlikkuse-uurimisest-teeme-ara)

Raudteeülesõidukohtade ohtlikkus ja selle hindamine

Lavrentjev, Jüri Teeleht 2005 / 1, lk. 3-6 : ill

Reliability study of micro-perforated elements in small engine silencer application

Rämmal, Hans; Lavrentjev, Jüri SETC 2017 : 23rd Small Engine Technology Conference "Small Engine Technology - Generating a Promising Future", November 15-17, 2017 Jakarta, Indonesia : Final program : SAE Technical Paper 2017 / 2017-32-0075, p. 37
http://www.setc-jsae.com/setc2017/docs/2017finalprogram/SETC2017_Final.pdf [Conference proceedings at Scopus](#) [Article at Scopus](#)

Richard Levet 10.01.1921-25.11.2011 : in memoriam

Lavrentjev, Jüri Mente et Manu 2011 / lk. 4 https://www.ester.ee/record=b1242496*est

Risk management of major accident hazards in Estonia

Tint, Piia; Munter, Rein; Lavrentjev, Jüri; Siirde, Andres; Möller, Kalju; Siirak, Virve Safety and Reliability : International Conference to Safer Life and Environment : KONBiN 2003 : Gdynia, May 27-30, 2003. Volume 1, Hazard, Risk and Safety Analysis and Prediction Accident and Pollution Investigations 2003 / p. 151-158

Sound reflection at an open end of a circular duct exhausting hot gas

Rämmal, Hans; Lavrentjev, Jüri Noise control engineering journal 2008 / 2, p. 107-114
<https://www.ingentaconnect.com/content/ince/ncej/2008/00000056/00000002/art00002;jsessionid=1nroaerjkh1bh.x-ic-live-01>

Sound reflection from subsonic flow duct termination exhausting hot jet

Rämmal, Hans; Lavrentjev, Jüri INTER-NOISE 2008 : 37th International Congress and Exposition on Noise Control Engineering : Shanghai, 26-29. October 2008 : proceedings. Vol 3 2009 / p. 1703-1711 <https://kth.diva-portal.org/smash/record.jsf?pid=diva2%3A337599&dsid=3257>

Source characterization of fans using acoustic 2-port models

Boden, Hans; Abom, Mats; Lavrentjev, Jüri Proceedings FAN NOISE, Sept., 1992, Senlis, France 1992 / p. 359-364

Tallinn koostab plaani liikluse müra vähendamiseks

err.ee 2024

Tallinn working on plan to reduce traffic noise

Leppik, A. news.err.ee 2024 [Tallinn working on plan to reduce traffic noise](#)

The effect of various fuels on engine power

Vallbaum, Erko; Muoni, Rein; Lavrentjev, Jüri Tarptautinis verslas : inovācijas, psiholoģija, ekonomika = International business : innovations, psychology, economics 2016 / p. 40-54 : ill

The passive acoustic effect of automotive catalytic converters

Lavrentjev, Jüri; Rämmal, Hans; Tiikoja, Heiki SAE technical papers 2011 / [8] p.: ill

TTÜ masinaehituse instituut : tööstuse konkurentsivõime tõstmine

Otto, Tauno; Lavrentjev, Jüri; Majak, Jüri TTÜ mehaanikateaduskond. Eesti Masinatööstuse Liit 2011 / lk. 33-42 : ill., fot http://www.ester.ee/record=b2720689*est

Tühikäigul mootor autot ei säästa

Sarv, Tiina sakala.postimees.ee 2024 [Tühikäigul mootor autot ei säästa](#)

Uuenduslik tootmine : käsiraamat

Riives, Jüri; Lumiste, Rünno; Reedik, Vello; Roosimölder, Lembit; Karjust, Kristo; Kers, Jaan; Kiolein, Indrek; Kokla, Margo; Küttner, Rein; Lavin, Jaak; Lavrentjev, Jüri; Lõun, Kaia; Mõtus, Leo; Naams, Invar; Otto, Tauno; Pohlak, Meelis; Raba, Karl; Saks, Alo; Talkop, Adolf; Tähemaa, Toivo; Veinthal, Renno 2011 http://www.ester.ee/record=b2736534*est

Uurimistödest kahetaktiliste mootorite alal

Sillat, Rein; Lavrentjev, Jüri Tehnika ja Tootmine 1986 / lk. 36-39 https://www.ester.ee/record=b1073047*est

VAZ-2109 oleks Šveitsis veoautode klassis

Lavrentjev, Jüri Äripäev 1994 / 9. märts

Õppimisvõimalusest Tallinna Tehnikaülikoolis : [transporditehnika õppesuund]

Lavrentjev, Jüri Transport ja Teed 1999 / 5, lk. 25

Автомобильные дороги и транспорт

Roste, Irina; Aavik, Andrus; Segerkrantz, Vladimir; Pertens, Sven; Roste, Irina; Sillat, Arno; Lavrentjev, Jüri 1989 https://www.ester.ee/record=b1509682*est

Исследование влияния некоторых геометрических параметров двухтактного карбюраторного двигателя на экономические и экологические характеристики его

Tsopp, P.; Valdaru, T.; Sillat, Rein; Lavrentjev, Jüri XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 147 https://www.ester.ee/record=b1305565*est

Об одной модели неупругого деформирования

Kenk, Kalju; Lavrentjev, Jüri XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 1, Общественные науки. Физико-математические науки. Строительство. Экономика 1981 / с. 74-75 https://www.ester.ee/record=b1322624*est

Расчет акустических характеристик систем газообмена двухтактных двигателей

Lavrentjev, Jüri Повышение мощностных, экономических и экологических характеристик двухтактных карбюраторных двигателей : материалы Таллиннского всесоюзного научно-технического семинара, 1-3 декабря 1987 года 1988 / с. 29-30 https://www.ester.ee/record=b1226891*est

Расчет рабочего процесса двухтактных карбюраторных двигателей

Sillat, Rein; Lavrentjev, Jüri Повышение мощностных, экономических и экологических характеристик двухтактных карбюраторных двигателей : материалы Таллиннского всесоюзного научно-технического семинара, 1-3 декабря 1987 года 1988 / с. 10 https://www.ester.ee/record=b1226891*est

Таллинн разрабатывает план по снижению транспортного шума

Leppik, A. rus.err.ee 2024 [Таллинн разрабатывает план по снижению транспортного шума](#)

Упрощенный метод расчетного определения характеристик глушителя выпуска двухтактного двигателя

Lavrentjev, Jüri Автомобильные дороги и транспорт. 18 1989 / с. 49-57