

Curriculum vitae

1. *First name:* **Anatoli**
2. *Surname* **Stulov**
3. *Date of birth:* 12 August 1947
4. *Institution and position held:*
1980 - Institute of Cybernetics at Tallinn University of Technology, Senior Researcher
1974 - 1980 Institute of Cybernetics, Junior Research Fellow
1971 - 1974 Institute of Cybernetics, Postgraduate Student
5. *Education:* 1965 - 1971 [Moscow Institute of Physics and Technology](#), Diploma 1971 (MA) in Physics
6. *Administrative responsibilities:* 2004 - 2013 INTAS, ERA.NET RUS and Shota Rustaveli NSF - international evaluator of grant applications
7. *Creative work:*
01.09 - 31.10.1994 - Research works in University of Bergen
01.07 - 30.09.2008 - Research works in Oslo University, cooperation of CENS - CMA
8. *Degree information:* Doctor's Degree, 1979, Application of Kirchhoff's integral equation method for transient diffraction of waves by elastic bodies, Leningrad Polytechnic Institute
9. *Field of research:* 4. Natural Sciences and Engineering, 4.10. Physics and Technical Physics, P190 Mathematical and general theoretical physics, classical mechanics, quantum mechanics, relativity, gravitation, statistical physics, thermodynamics (Continuum mechanics, musical acoustics, wave propagation)
10. *Current grants & projects:* Centre for Nonlinear Studies
11. *Dissertations supervised:* [Dmitri Kartofelev](#), Doctor's Degree, 2014, (sup) **Anatoli Stulov**, Nonlinear Sound Generation Mechanisms in Musical Acoustics, Tallinn University of Technology, Institute of Cybernetics
Mirko Mustonen, Master's Degree, 2014, (sup) **Anatoli Stulov**, **Dmitri Kartofelev**, Magnetic pickup nonlinearity, **Tallinn University of Technology**, **Institute of Cybernetics at TUT**
Dmitri Kartofelev, Master's Degree, 2009, (sup) **Anatoli Stulov**, Klaverikeele võnkumise spektrite analüüs (Analysis of Vibration Spectra of Piano String), **Tallinn University of Technology**, **Faculty of Science**, **Department of Physics**
12. *Number of publications:* >50

The entire version of my CV is displayed on the [Estonian Research Portal](#).

Selected publications

Metsaveer, J; Veksler, N; Stulov, A. (1979). Diffraction of acoustic pulses by elastic bodies. Moscow: Nauka, 239 p. (in Russian).

Stulov, Anatoli; Erofeev, Vladimir (2015). Shock wave propagation in nonlinear microstructured wool felt. *Proceedings of the Estonian Academy of Sciences*, 64(3S), 361 - 367.

Kartofelev, Dmitri; Stulov, Anatoli (2015). Wave propagation and dispersion in microstructured wool felt. *Wave Motion*, 57, 23 - 33.

Stulov, Anatoli; Erofeev, Vladimir I. (2015). Frequency-dependent attenuation and phase velocities dispersion of an acoustical wave propagation in the media with damages. *In: Generalized Continua as Models for Materials with Multi-Scale-Effects or under Multi-Field-Actions : September, 21st-25th 2015, Experimental Factory, Magdeburg, Germany, Book of Abstracts: (Eds.)Altenbach, Holm; Forest, Samuel.*, 41.

Stulov, Anatoli (2015). Piano hammer-string contact duration: How the bass hammer is released from the string. *In: Bridging the Gaps : 3rd Vienna Talk on Music Acoustics, Mi, 16.bis Sa, 19.September 2015, Abstract Book: Vienna: University of Music and Performing Arts Vienna*, 43.

Kartofelev, D., Stulov, A. (2014). Propagation of deformation waves in wool felt. *Acta Mechanica*, 2014, 225(11), 3103 – 3113.

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Kartofelev, D., Stulov, A. (2014). Wave propagation and attenuation in wool felt. *Proc. of 7th Forum Acusticum 2014, September 7 – 12, 2014, Kraków, Poland*, 1 – 6.

Mustonen, M., Kartofelev, D., Stulov, A., Välimäki, V. (2014). Application of high-speed line scan camera for acoustic measurements of vibrating objects. *Proc. of 7th Forum Acusticum 2014, September 7 – 12, 2014, Kraków, Poland*, 1 – 6.

Kartofelev, D., Mustonen, M., Stulov, A., Välimäki, V. (2014). Application of high-speed line scan camera for string vibration measurements. *Proc. of Int. Symp. on Musical Acoustics ISMA 2014, July 7 – 12, 2014, Le Mans, France*, 629 – 634.

Mustonen, M., Kartofelev, D., Stulov, A., Välimäki, V. (2014). Experimental verification of pickup nonlinearity. *Proc. of Int. Symp. on Musical Acoustics ISMA 2014, July 7 – 12, 2014, Le Mans, France*, 651 – 656.

Pàmies-Vilà, M., Kubilay, I. A., Kartofelev, D., Mustonen, M., Stulov, A., Välimäki, V. (2014). High-speed line-camera measurements of a vibrating string. Proc. of Baltic-Nordic Acoustic Meeting BNAM 2014, June 2 – 4, 2014, Tallinn, Estonia, 1 – 8.

Kartofelev, D., Stulov, A., Lehtonen, H-M., Välimäki, V. (2013). Modeling a vibrating string terminated against a bridge with arbitrary geometry. Proc. of SMAC 2013: 4th Stockholm Music Acoustics Conference, July 30 - August 3, 2013. (Eds.) R. Bresin, A. Askenfelt. Stockholm: KTH Royal Institute of Technology, 2013, 626 – 632.

Stulov, A. (2013). Mathematical model of echolocation of fish-catching bats. Wave Motion, 50(3), 579 - 585.

Stulov, A. (2012). Analysis of the nonlinear effect of the capo bar-string interaction in grand piano. In: *Acoustics 2012 Proceedings: Nantes, France, 23-27 April 2012*: Nantes: SFA, 2012, 1217 - 1221.

Stulov, A.; Välimäki, V.; Lehtonen, H.-M. (2012). Modeling of the part-pedaling effect in the piano. In: *Acoustics 2012 Proceedings: Nantes, France, 23-27 April 2012*: Nantes: SFA, 2012, 1223 - 1228.

Kartofelev, D.; Stulov, A. (2010). Influence of the edge of the cast iron frame curvature on the spectrum of the piano string vibration. In: *Proceedings of the Second Vienna Talk on Music Acoustics "Bridging the Gaps»: September 19-21, 2010, Vienna, Austria*: Vienna: Institute of Musical Acoustics (Wiener Klangstil), University of Music and Performing Arts Vienna, 2010, 85 - 88.

Пуру, А.Э.; Стулов, А.С. (2009). Параметрическая томография трехмерных потоков. *Нелинейный мир*, 7(7), 569 - 574.

Ерофеев, В.И., Лисенкова, Е.Е., Стулов, А.С. (2008). Давление волн, распространяющихся в рояльных струнах на импедансную границу ("мостик"). *Нелинейный мир*, 6(5-6), 359 - 362.

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Stulov, A. (2008). Physical modelling of the piano string scale. *Applied Acoustics*, 69(11), 977 - 984.

Stulov, A. (2005). Experimental and computational studies of piano hammers. *ACTA Acustica United with Acustica*, 91(6), 1086 - 1097.

Stulov, A. (2004). Hereditary features of piano hammer. In: *Proceedings of the XV Session of the Russian Acoustical Society: Nizhny Novgorod, November 15-18, 2004*: Moscow: GEOS, 2004, 261 - 264.

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- Stulov, A. (1995). Hysteretic model of the grand piano hammer felt. Journal of the Acoustical Society of America, 97(4), 2577 - 2585.
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- Stulov, A.S. (1979). Evaluation of the echo signal from a solid noncircular elastic cylinder with the aid of the Kirchhoff integral. Mechanics of Solids, 14(2), 134 - 141.
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