

Application of higher order Haar wavelet method for solving nonlinear evolution equations

Ratas, Mart; Salupere, Andrus Mathematical modelling and analysis 2020 / p. 271-288 <https://doi.org/10.3846/mma.2020.11112>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of HOHWM for vibration analysis of nanobeams

Kirs, Maarjus; Eerme, Martin; Bassir, David; Tungel, Ernst Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 230-235
<https://www.scientific.net/KEM.799.230> https://www.ester.ee/record=b5235278*est <https://doi.org/10.4028/www.scientific.net/KEM.799.230>
[Conference proceeding at Scopus](#) [Article at Scopus](#)

Application of the Adaptive Higher Order Haar Wavelet based methods for solving the sine-Gordon equation

Ratas, Mart AIP conference proceedings 2022 / art. 380006 <https://doi.org/10.1063/5.0081491> [Conference Proceedings at Scopus](#)
[Article at Scopus](#)

Application of the Haar wavelet based discretization technique to problems of orthotropic plates and shells

Majak, Jüri; Pohlak, Meelis; Eerme, Martin Mechanics of composite materials 2009 / 6, p. 631-642

Application of wavelet based discretization method to elasticity and plasticity problems

Majak, Jüri; Pohlak, Meelis; Eerme, Martin 6th European Solid Mechanics Conference 2006 / ? p

Applications of multi-resolution analysis for bioimpedance signal processing

Birjukov, Andrei Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 115-118 : ill

Classification of signal segments using higher order statistics-based models, wavelet transform and self-organizing mases

Lossmann, Eerik; Meister, Ants 2nd Lithuanian Conference "Biomed. Engineering", 10-17. Oct. 1997 1997 / p. 25

Comparing two wavelet approaches for solving fractional differential equations

Majak, Jüri; Kivistik, Lenart; Eerme, Martin; Tungel, Ernst International Conference of Numerical Analysis and Applied Mathematics : ICNAAM2022 : Heraklion, Freece, 19-25 September 2022 2024 / art. 230004 <https://doi.org/10.1063/5.0210415>
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Design of performance characteristics on laser treated denim fabric

Mandre, Nele; Plamus, Tiia; Linder, Angelika; Varjas, Toivo; Majak, Jüri; Krumme, Andres The materials science = Medžiagotyra 2023 / 10 p. : ill <https://doi.org/10.5755/j02.ms.33259> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)
[Article at WOS](#)

Desing of wavelet filter bank for JPEG 2000 standard

Hahanova, I.; Hahanov, V.; Fomina, Jelena; Bykova, V.; Sorudeykin, K. Proceedings of IEEE East-West DesignAMPTest International Workshop (EWDTW'06) : Sochi, Russia 2006 / p. 327-331 <https://openarchive.nure.ua/items/5eb7b697-f891-42e3-9af1-142e0491e388>

Dynamics of flight of the fragments with higher order Haar wavelet method

Kivistik, Lenart; Mehrparvar, Marmar; Eerme, Martin; Majak, J Proceedings of the Estonian Academy of Sciences 2024 / p. 108-115 <https://doi.org/10.3176/proc.2024.2.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of Haar wavelet method for analysis of functionally graded and nanostructures = Haari lainikute meetodi hindamine funktsionaalgradient- ja nanostruktuuride analüüsiks

Kirs, Maarjus 2018 <https://digi.lib.ttu.ee/i/?10625> https://www.ester.ee/record=b5151220*est

Free vibration analysis of Timoshenko beam by higher-order Haar wavelet method

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo AIP conference proceedings 2023 / art. 250007 <https://doi.org/10.1063/5.0162269>
[Conference proceedings at Scopus](#) [Article at Scopus](#)

Free vibration analysis of uniform and tapered timoshenko beam by higher-order haar wavelet method

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 38 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Haar wavelet based analysis of dynamics of flight of the fragments

Mehrparvar, Marmar; Kivistik, Lenart; Eerme, Martin; Karjust, Kristo International Conference Of Numerical Analysis And Applied Mathematics : ICNAAM2023 2025 / art. 240001 <http://pubs.aip.org/aip/acp/article/3315/1/240001/3363142/Haar-wavelet-based-analysis-of-dynamics-of-flight> <https://doi.org/10.1063/5.0287481>

Haar wavelet based discretization technique for analysis and design of composite plate and shell structures

Majak, Jüri; Pohlak, Meelis; Eerme, Martin; Karjust, Kristo; Kers, Jaan 14th European Conference on Composite Materials : 7-10 June 2010, Budapest, Hungary 2010 / Paper ID: 431-ECCM14, [10] p.: ill

https://www.researchgate.net/publication/267556579_Wavelet_based_discretization_technique_for_analysis_and_design_of_composite_structures

Higher order Haar wavelet method for vibration analysis of functionally graded beam

Mikola, Madis; Majak, Jüri; Pohlak, Meelis; Shvartsman, Boris AIP Conference Proceedings 2022 / art. 380003

<https://doi.org/10.1063/5.0081476> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Higher-order Haar wavelet method for vibration analysis of nanobeams

Majak, Jüri; Shvartsman, Boris; Ratas, Mart; Bassir, David; Pohlak, Meelis; Karjust, Kristo; Eerme, Martin Materials today communications 2020 / art. 101290, 6 p. : tab

<https://doi.org/10.1016/j.mtcomm.2020.101290> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

Longitudinal wave propagation in axially graded Rayleigh–Bishop nanorods

Arda, Mustafa; Majak, Jüri; Mehrparvar, Marmar Mechanics of composite materials 2024 / p. 1109-1128

<https://doi.org/10.1007/s11029-023-10160-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mees kes lahendab lainikutega keerulisi võrrandeid

Strandberg, Marek; Kolk, Mariliis Arvamus, kultuur : [ajalehe Postimees lisa] 2021 / Lk. 2-3 : fot

<https://dea.digar.ee/article/ak/2021/07/10/2.1>

Numerical modeling of fragment flight dynamics

Kivistik, Lenart; Mehrparvar, Marmar; Eerme, Martin; Dieves, Veiko; Majak, Jüri Proceedings of the Estonian Academy of

Sciences 2025 / p. 120-125 <https://doi.org/10.3176/proc.2025.2.06>

On the accuracy of the Haar wavelet discretization method

Majak, Jüri; Shvartsman, Boris; Karjust, Kristo; Mikola, Madis; Haavajõe, Anti; Pohlak, Meelis Composites Part B : Engineering

2015 / p. 321-327 : tab <https://doi.org/10.1016/j.compositesb.2015.06.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at](#)

[WOS](#) [Article at WOS](#)

Requirements to data acquisition and signal analysis for electrical grid condition monitoring

Anijärv, Toomas Erik; Shabbir, Noman; Kütt, Lauri; Iqbal, Muhammad Naveed 2020 IEEE 61st International Scientific

Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference

proceedings 2020 <https://doi.org/10.1109/RTUCON51174.2020.9316487>

Solving nonlinear boundary value problems using the higher order Haar wavelet Method

Ratas, Mart; Majak, Jüri; Salupere, Andrus Mathematics 2021 / art. 2809 <https://doi.org/10.3390/math9212809> [Journal metrics at](#)

[Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solving nonlinear PDEs using the higher order Haar wavelet method on nonuniform and adaptive grids

Ratas, Mart; Salupere, Andrus; Majak, Jüri Mathematical modelling and analysis 2021 / p. 147–169

<https://doi.org/10.3846/mma.2021.12920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solving ordinary differential equations with higher order Haar wavelet method

Majak, Jüri; Pohlak, Meelis; Eerme, Martin; Shvartsman, Boris AIP conference proceedings 2019 / art. 330002

<https://doi.org/10.1063/1.5114340> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Spectrum analysis additional vibrations of Cartesian robot by different control modes

Autsou, Siarhei; Vaimann, Toomas; Rassõlkin, Anton; Kudelina, Karolina 2022 18th Biennial Baltic Electronics Conference

(BEC) 2022 / 5 I. <https://doi.org/10.1109/BEC56180.2022.9935595>

Static response and buckling loads of multilayered composite beams using the refined Zigzag theory and Higher-Order Haar Wavelet method

Sorrenti, M.; Di Sciua, M.; Majak, Jüri; Auriemma, Fabio Mechanics of composite materials 2021 / 18 p

<https://doi.org/10.1007/s11029-021-09929-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The low voltage start-up test of induction motor for the detection of broken bars

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Heidari, Hamidreza 2020 International

Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1481-1487

<https://doi.org/10.1109/ICEM49940.2020.9271018>

Transient modeling and recovery of non-stationary fault signature for condition monitoring of induction motors

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Shams Ghahfarokhi, Payam; Kudelina,

Karolina Applied sciences 2021 / 17 p. : ill <https://doi.org/10.3390/app11062806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal](#)

[metrics at WOS](#) [Article at WOS](#)

Transient modeling and recovery of non-stationary fault signature for condition monitoring of induction motors

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Shams Ghahfarokhi, Payam Advances in machine fault diagnosis 2022 / p. 43-59 <https://doi.org/10.3390/app11062806>

Wavelet based discretization method for solving linear and nonlinear elasticity problems [Electronic resource]

Majak, Jüri; Pohlak, Meelis; Lepikult, Toomas III European Conference on Computational Mechanics 2006 / [CD-ROM]

Wavelet based discretization technique for analysis and design of composite structures

Majak, Jüri; Kers, Jaan; Pohlak, Meelis; Eerme, Martin; Luiga, K. The 18th International Conference on Composite Materials. Composite materials : key to the future 2011 / [6] p

Wavelet discretization based elasticity solutions to some orthotropic plate and shell problems

Majak, Jüri; Pohlak, Meelis; Eerme, Martin XIV International Conference Mechanics of Composite Materials 2006 / p. 121

Wavelet-based measurement and processing of gas-chromatographic data

Laan, Marten D. van der; Halang, Wolfgang A.; **Mõtus, Leo** XIV IMEKO World Congress : New Measurements - Challenges and Visions, 1-6 June 1997, Tampere, Finland. Vol. 5 1997 / p. 22-27 : ill

Weak formulation based Haar wavelet method for solving differential equations

Majak, Jüri; Pohlak, Meelis; Eerme, Martin; Lepikult, Toomas Applied mathematics and computation 2009 / p. 488-494

Применение теплицевых матриц при обработке перекрывающихся импульсов

Lumberg, Tõnu; Sullakatko, Toomas Методы обработки и регистрации сигналов 1981 / с. 13-17 : илл
https://www.ester.ee/record=b1507633*est <https://digikogu.taltech.ee/et/Item/b58bba27-822f-44c3-8387-50d8a26bb3d3>