

#### **Acceleration data acquisition and processing system for structural health monitoring**

**Herranen, Henrik; Kuusik, Alar; Saar, Tõnis; Reidla, Marko; Land, Raul; Märten, Olev; Majak, Jüri** 2014 IEEE International Workshop On Metrology For Aerospace : May 29-30, 2014, Benevento, Italy : proceedings 2014 / p. 244-248 : ill

#### **Accuracy issues of the Haar wavelet method**

**Mikola, Madis; Haavajõe, Anti; Arak, Marti; Majak, Jüri; Pohlak, Meelis;** Shvartsman, Boris 28th Nordic Seminar on Computational Mechanics, 22-23 October, Tallinn, 2015 : proceedings of the NSCM28 2015 / p. 103-106

#### **Adhesion measuring method optimization in reinforced composites**

**Karjust, Kristo; Pohlak, Meelis; Majak, Jüri** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 633-638 : ill

#### **An algorithm for localised and diffuse necking analysis**

**Majak, Jüri; Pohlak, Meelis; Küttner, Rein** International journal of computational materials science and surface engineering 2007 / 4, p. 494-508 <https://www.inderscienceonline.com/doi/abs/10.1504/IJCMSSE.2007.016438>

#### **Analysis and design of graphene laminates [Online resource]**

**Majak, Jüri; Kirs, Maarjus; Karjust, Kristo** International Conference "Functional Materials and Nanotechnologies 2017" : Tartu, Estonia in April, 24-27, 2017 : book of abstracts 2017 / p. 67 [http://www.ester.ee/record=b4668793\\*est](http://www.ester.ee/record=b4668793*est)

#### **Analysis and design of multifunctional laminated glass composite structures**

**Majak, Jüri; Pohlak, Meelis; Õunapuu, Erko; Auriemma, Fabio; Rämmal, Hans; Saarts, Samo** 24th International Conference on Composites/Nano-Engineering : ICCE-24 : Haikou, Hainan Island, China, July 17-23, 2016 2016 / [2] p. : ill

#### **Analysis and design optimisation of glass structures = Klaaskonstruksioonide analüüs ning optimeerimine**

**Õunapuu, Erko** 2019 <https://digikogu.taltech.ee/et/Item/1851ce66-14f9-486e-9153-414b75cb0495> [https://www.ester.ee/record=b5284651\\*est](https://www.ester.ee/record=b5284651*est)

#### **Application of artificial intelligence and machine learning for BIM : review**

**Bassir, David; Lodge, Hugo; Chang, Haochen; Majak, Jüri; Chen, Gonfa** International journal for simulation and multidisciplinary design optimization 2023 / art. 5 <https://doi.org/10.1051/smdo/2023005> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Application of evolutionary methods for solving optimization problems in engineering**

**Majak, Jüri; Küttner, Rein; Pohlak, Meelis; Eerme, Martin; Karjust, Kristo** Proceedings of NordDesign 2008 : August 21-23, 2008 2008 / p. 39-48 : ill  
[https://www.researchgate.net/publication/283626005\\_Application\\_of\\_evolutionary\\_methods\\_for\\_solving\\_optimization\\_problems\\_in\\_engineering](https://www.researchgate.net/publication/283626005_Application_of_evolutionary_methods_for_solving_optimization_problems_in_engineering)

#### **Application of HOHWM based function approximation algorithms in engineering design**

**Mäe, Tiina; Plamus, Tiia; Majak, Jüri; Karunanidhi, Ramachandran; Rahman, Md Toufiqueur** International conference of numerical analysis and applied mathematics ICNAAM 2021 : Rhodes, Greece, 20-26 September 2021 2023 / art. 250003  
<https://doi.org/10.1063/5.0162255> [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 the Haar waveletbased discretization method**

**Majak, Jüri; Eerme, Martin; Pohlak, Meelis** 5th International Conference Aplimat 2006 / p. 279-286

#### **Application of wavelet based discretization method to elasticity and plasticity problems**

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

#### **Artificial neural networks and evolutionary algorithms in engineering design**

**Velsker, Tarmo; Majak, Jüri; Pohlak, Meelis; Eerme, Martin; Karjust, Kristo** Journal of achievements in materials and manufacturing engineering 2011 / p. 88-95 : ill

#### **Artificial neural networks and genetic algorithms in engineering design**

**Majak, Jüri; Pohlak, Meelis; Eerme, Martin; Küttner, Rein; Karjust, Kristo** International Conference on Engineering Optimization (EngOpt 2008) : Rio de Janeiro, Brazil, 2008 : conference proceedings 2008 / [11 p] : ill  
[https://www.researchgate.net/publication/253023189\\_Artificial\\_neural\\_networks\\_and\\_genetic\\_algorithms\\_in\\_engineering\\_design](https://www.researchgate.net/publication/253023189_Artificial_neural_networks_and_genetic_algorithms_in_engineering_design)

#### **Autonomous mobile robots for production logistics: a process optimization model modification**

**Raamets, Tõnis; Majak, Jüri; Karjust, Kristo; Mahmood, Kashif; Hermaste, Aigar** Proceedings of the Estonian Academy of Sciences 2024 / p. 134-141 : ill <https://doi.org/10.3176/proc.2024.2.06>

#### **Characterisation of exponentially graded materials by ultrasound**

**Braunbrück, Andres; Majak, Jüri** ICCS17 : 17th International Conference on Composite Structures : Portugal 17-21 June 2013 :

**A comparative analysis of Fuzzy AHP and Fuzzy VIKOR methods for prioritization of the risk criteria of an autonomous vehicle system**

**Mehrpour, Marmar; Majak, Jüri; Karjust, Kristo** Proceedings of the Estonian Academy of Sciences 2024 / p. 116-123  
<https://doi.org/10.3176/proc.2024.2.04>

**Comparing two wavelet approaches for solving fractional differential equations**

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

**Convergence theorem for the Haar wavelet based discretization method**

**Majak, Jüri; Shvartsman, Boris; Kirs, Maarjuss; Pohlak, Meelis; Herranen, Henrik** Composite structures 2015 / p. 227-232  
<https://doi.org/10.1016/j.compstruct.2015.02.050> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Decomposition method for solving optimal material orientation problems**

**Majak, Jüri; Pohlak, Meelis** 15th International Conference on Composite Structures : Portugal, Porto 2009 / ? p

**Decomposition method for solving optimal material orientation problems**

**Majak, Jüri; Pohlak, Meelis** Composite structures 2010 / 8, p. 1839-1845  
<https://www.sciencedirect.com/science/article/pii/S0263822310000346>

**Design and manufacturing of composite laminates with structural health monitoring capabilities**

**Herranen, Henrik; Majak, Jüri; Tšukrejev, Pavel; Karjust, Kristo; Märtens, Olev** Procedia CIRP 2018 / p. 647-652 : ill  
<https://doi.org/10.1016/j.procir.2018.03.128> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Design and testing of new composite from recycled GFRP**

**Kers, Jaan; Majak, Jüri; Goljandin, Dmitri; Saarna, Mart; Gregor, Andre; Siinmaa, A.; Tall, Kaspar** 14th European Conference on Composite Materials : 7-10 June 2010, Budapest, Hungary 2010 / [10] p

**Design and testing of sandwich structures with different core materials**

**Herranen, Henrik; Pabut, Ott; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Kers, Jaan; Saarna, Mart; Allikas, Georg; Aruniit, Aare** Materials science = Medžiagotyra 2012 / p. 45-50 : ill  
[https://www.researchgate.net/publication/268366546\\_Design\\_and\\_Testing\\_of\\_Sandwich\\_Structures\\_with\\_Different\\_Core\\_Materials](https://www.researchgate.net/publication/268366546_Design_and_Testing_of_Sandwich_Structures_with_Different_Core_Materials)

**Design of car frontal protection system using neural networks and genetic algorithm**

**Majak, Jüri; Pohlak, Meelis; Eerme, Martin; Velsker, Tarmo** Mechanika 2012 / p. 453-460 : ill  
<https://mechanika.ktu.lt/index.php/Mech/article/view/2325>

**Design of functionally graded sandwich panels**

**Pohlak, Meelis; Majak, Jüri; Karjust, Kristo; Herranen, Henrik; Lend, Henri** ICCS17 : 17th International Conference on Composite Structures : Portugal 17-21 June 2013 : book of abstracts 2013 / p. 55

**Design of light-weight sandwich panels for trailers**

**Allikas, Georg; Kers, Jaan; Aruniit, Aare; Herranen, Henrik; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Pabut, Ott** ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 / 8 p. : ill  
[https://www.researchgate.net/publication/290060877\\_Design\\_of\\_light-weight\\_sandwich\\_panel\\_for\\_trailers](https://www.researchgate.net/publication/290060877_Design_of_light-weight_sandwich_panel_for_trailers)

**Design of multifunctional laminated glass composite panel**

**Majak, Jüri; Pohlak, Meelis; Shvartsman, Boris; Öunapuu, Erko; Kirs, Maarjuss** ICCS19 : 19th International Conference on Composite Structures : Sheraton Porto Hotel & Spa, 5-8 September 2016 : proceedings 2016 / p. 140 <http://dx.doi.org/10.15651/978-88-748-8977-8>

**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](#)

**Design of performance characteristics on laser treated denim fabric : [conference paper]**

**Mandre, Nele; Plamus, Tiia; Linder, Angelika; Varjas, Toivo; Majak, Jüri; Krumme, Andres** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 36 : ill [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Design optimization of graphene laminates for maximum fundamental frequency**

**Majak, Jüri; Kirs, Maarjuss; Eerme, Martin; Tungal, Ernst; Lepikult, Toomas** Proceedings of the Estonian Academy of Sciences 2017 / p. 354-362 : ill <https://doi.org/10.3176/proc.2017.4.08> [https://artiklid.elnet.ee/record=b2830810\\*est](https://artiklid.elnet.ee/record=b2830810*est) [Journal metrics at Scopus](#) [Article at WOS](#)

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

**Design optimization of multilayer graphene sheets**

**Majak, Jüri; Eerme, Martin; Arak, Marti; Kirs, Maarjus; Mikola, Madis** First International Conference on Mechanics of Composites (MECHCOMP2014) : Stony Brook University, Long Island, New York, June 8-12, 2014 2014 / p. 175

**Design optimization of steel and glass structures = Metall- ja klaaskonstruksioonide optimeerimine**

**Velsker, Tarmo** 2012

**Design optimization of structural components for fatigue loading**

**Pabut, Ott; Eerme, Martin; Majak, Jüri; Pohlak, Meelis** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [J] 2010 / p. 131-135 : ill

**Development and implementation of the key performance indicator selection model for SMEs = Väikese ja keskmise suurusega ettevõtete võtmenäitajate valimimudeli arendus ja juurutus**

**Kaganski, Sergei** 2018 <https://digi.lib.ttu.ee/i/?9945> [https://www.ester.ee/record=b5054656\\*est](https://www.ester.ee/record=b5054656*est)

**Development and optimisation of production monitoring system = Tootmise monitooringu süsteemi arendus ja optimeerimine**

**Snatkin, Aleksei** 2016 [https://www.ester.ee/record=b4576990\\*est](https://www.ester.ee/record=b4576990*est)

**Development of a product lifecycle management model based on the fuzzy analytic hierarchy process**

**Paavel, Marko; Karjust, Kristo; Majak, Jüri** Proceedings of the Estonian Academy of Sciences 2017 / p. 279-286 : ill  
<https://doi.org/10.3176/proc.2017.3.05> [http://www.ester.ee/record=b2355998\\*est](http://www.ester.ee/record=b2355998*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of equipment and mathematical model for manufacturing of steered fibre laminate = Seadmete ja matemaatilise mudeli arendamine muutuva kiuga laminaadi valmistamiseks**

**Haavajõe, Anti** 2019 [https://www.ester.ee/record=b5284222\\*est](https://www.ester.ee/record=b5284222*est) <https://digikogu.taltech.ee/et/Item/3328472d-4a53-4e56-a892-93453155327c>

**Development of process optimization model for autonomous mobile robot used in production logistics**

**Majak, Jüri; Karjust, Kristo; Mahmood, Kashif; Hermaste, Aigar; Raamets, Tõnis** AIP conference proceedings 2024 / art. 020008 <https://doi.org/10.1063/5.0189299> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Difficulties in SMEs and KPI selection model as solver**

**Kaganski, Sergei; Paavel, Marko; Karjust, Kristo; Majak, Jüri; Snatkin, Aleksei** Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 33-38 : ill

**Double-curved surface forming process modeling**

**Velsker, Tarmo; Majak, Jüri; Eerme, Martin; Pohlak, Meelis** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [J] 2010 / p. 257-262 : ill

**Effect of aggregation methods in fuzzy technique for prioritization of criteria of automated vehicle system**

**Mehrpavar, Marmar; Majak, Jüri; Karjust, Kristo** AIP conference proceedings 2024 / art. 020011 <https://doi.org/10.1063/5.0189323>  
[Journal metrics at Scopus](#) [Article at Scopus](#)

**Embedded electronics influence on the strength of carbon fiber laminate**

**Herranen, Henrik; Kers, Jaan; Preden, Jürjo-Sören; Talalaev, Robert; Eerme, Martin; Majak, Jüri; Lend, Henri; Allikas, Georg** Advances in applied materials and electronics engineering III 2014 / p. 239-243  
<https://doi.org/10.4028/www.scientific.net/AMR.905.239> [Article at Scopus](#)

**Empennage sizing using tail volume**

**Karunanidhi, Ramachandran; Scholz, Dieter; Majak, Jüri; Eerme, Martin** AIP conference proceedings 2022 / art. 380007  
<https://doi.org/10.1063/5.0082095> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Engineering optimization of a car frontal protection system component**

**Pohlak, Meelis; Majak, Jüri; Eerme, Martin** Estonian journal of engineering 2009 / 1, p. 61-72 : ill

**Enhanced Crack Detection in Composite Plates : Integrating Haar Wavelet Transform with Convolutional Neural Networks**

**Mehrpavar, Marmar; Majak, Jüri; Karjust, Kristo** 6th International Conference on Multidisciplinary Design Optimization and Applications (MDOA 2024) 2025 / art. 01008 [https://www.e3s-conferences.org/articles/e3sconf/abs/2025/31/e3sconf\\_mdoa2025\\_01008/e3sconf\\_mdoa2025\\_01008.html](https://www.e3s-conferences.org/articles/e3sconf/abs/2025/31/e3sconf_mdoa2025_01008/e3sconf_mdoa2025_01008.html)  
<https://doi.org/10.1051/e3sconf/202563101008>

**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](https://www.ester.ee/record=b5151220*est)

#### **Experimental evaluation and numerical modelling of the quality of photovoltaic modules**

**Tšukrejev, Pavel; Karjust, Kristo; Majak, Jüri** Proceedings of the Estonian Academy of Sciences 2021 / p. 477-483 : ill <https://doi.org/10.3176/proc.2021.4.15> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Experimental evaluation and numerical modelling residual stresses in glass panel**

**Majak, Jüri; Anton, Johan; Õunapuu, Erko; Auriemma, Fabio; Pohlak, Meelis; Eerme, Martin; Klauson, Aleksander** 2018 International Conference on Materials Science and Manufacturing Engineering (MSME 2018) MATEC web of conferences 2019 / art. 02003, 7 p. : ill <https://doi.org/10.1051/mateconf/201925302003>

#### **Experimental modal analysis of maritime composite panel**

**Gavrijaševa, Alina; Märtens, Olev; Land, Raul; Saar, Tõnis; Herranen, Henrik; Majak, Jüri; Reidla, Marko; Kuusik, Alar** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 143-146 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

#### **Experimental study of incremental forming of sheet metal products**

**Pohlak, Meelis; Küttner, Rein; Majak, Jüri; Karjust, Kristo; Sutt, Annes** Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 145-148 : ill

#### **Extremes of apparent and tap densities of recovered GFRP filler materials**

**Kers, Jaan; Majak, Jüri; Goljandin, Dmitri; Gregor, Andre; Malmstein, M.; Vilsaar, Kristiina** Composite structures 2010 / 9, p. 2097-2101 : ill <https://www.sciencedirect.com/science/article/pii/S0263822309004085>

#### **Extremes of apparent and tap densities of recovered GFRP filler materials**

**Kers, Jaan; Majak, Jüri; Gregor, Andre; Malmstein, M.; Vilsaar, Kristiina** 15th International Conference on Composite Structures : Portugal, Porto 2009 / ? p <https://www.sciencedirect.com/science/article/pii/S0263822309004085>

#### **Free vibration analysis of tapered Timoshenko beam with higher order Haar wavelet method**

**Mehrpavar, Marmar; Majak, Jüri; Karjust, Kristo; Arda, Mustafa** Proceedings of the Estonian Academy of Sciences 2022 / p. 77-83 : ill <https://doi.org/10.3176/proc.2022.1.07> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

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

**Mehrpavar, 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**

**Mehrpavar, 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](#)

#### **Function approximation using Haar wavelets**

**Majak, Jüri; Eerme, Martin; Haavajõe, Anti** AIP conference proceedings 2020 / art. 230004 <https://doi.org/10.1063/5.0026543> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Fuzzy AHP as a tool for prioritization of key performance indicators**

**Kaganski, Sergei; Majak, Jüri; Karjust, Kristo** Procedia CIRP 2018 / p. 1227-1232 : ill <https://doi.org/10.1016/j.procir.2018.03.097> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Fuzzy analytical hierarchy process based environmental, social and governance risks assessment for the future phosphorite mining in Estonia**

**Paat, Andrus; Majak, Jüri; Karu, Veiko; Hitch, Michael William** Extractive Industries and Society 2024 / art. 101438 <https://doi.org/10.1016/j.exis.2024.101438> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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](https://www.researchgate.net/publication/267556579_Wavelet_based_discretization_technique_for_analysis_and_design_of_composite_structures)

#### **Haar wavelet method for vibration analysis of nanobeams**

**Kirs, Maarjus; Mikola, Madis; Haavajõe, Anti; Õunapuu, Erko; Shvartsman, Boris; Majak, Jüri** Waves, wavelets and fractals : advanced analysis 2016 / p. 20-28 : ill <https://doi.org/10.1515/wwfaa-2016-0003>

#### **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; Eerne, 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](#)

**Human-robot interaction : a conceptual framework for safety/risk analysis**

**Matsulevitš, Johannes; Majak, Jüri; Eerne, Martin; Sarkans, Martinš; Dunajeva, Olga; Kristjuhan-Ling, Kadri; Raamets, Tõnis; Kekšin, Vjatšeslav** Proceedings of the Estonian Academy of Sciences 2025 / p. 137-142  
<https://doi.org/10.3176/proc.2025.2.09>

**Implementation of key performance indicators selection model as part of the enterprise analysis model**

**Kaganski, Sergei; Majak, Jüri; Karjust, Kristo; Toompalu, Silver** Procedia CIRP 2017 / p. 283-288 : ill  
<https://doi.org/10.1016/j.procir.2017.03.143> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Implementing an AI-based digital twin analysis system for real-time decision support in a custom-made sportswear SME**

**Raamets, Tõnis; Karjust, Kristo; Majak, Jüri; Hermaste, Aigar** Applied sciences 2025 / art. 7952  
<https://doi.org/10.3390/app15147952>

**Incremental sheet forming process modelling - limitation analysis**

**Pohlak, Meelis; Majak, Jüri; Küttner, Rein** Journal of achievements in materials and manufacturing engineering 2007 / 2, p. 67-70 : ill

**Incremental sheet forming process modelling - limitation analysis**

**Pohlak, Meelis; Majak, Jüri; Küttner, Rein** Proceedings M2D'2006: 5th International Conference on Mechanics and Materials in Design : Faculty of Engineering, University of Porto, Portugal, 24-26 July 2006 2006 / p. 1-12 : ill

**Influence of hollow glass microspheres on the mechanical and physical properties and cost of particle reinforced polymer composites**

**Aruniit, Aare; Kers, Jaan; Majak, Jüri; Krumme, Andres; Tall, Kaspar** Proceedings of the Estonian Academy of Sciences 2012 / p. 160-165 : ill [https://artiklid.elnet.ee/record=b2535363\\*est](https://artiklid.elnet.ee/record=b2535363*est)

**Komplekssete tehniliste süsteemide optimaalne projekteerimine - toodete konkursivõime tagamise eeltingimus**

**Küttner, Rein; Eerne, Martin; Karjust, Kristo; Majak, Jüri; Pohlak, Meelis** Teadusmõtte Eestis. 4, Tehnikateadused. 2 2007 / lk. 71-80 : ill

**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](#)

**Manufacturability and limitations in incremental sheet forming**

**Pohlak, Meelis; Majak, Jüri; Küttner, Rein** Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 2, p. 129-139 : ill

**Manufacturability issues in incremental sheet forming**

**Pohlak, Meelis; Majak, Jüri; Küttner, Rein** Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 157-162 : ill

**Material parameters identification by use of hybrid GA**

**Majak, Jüri; Toompalu, S.; Pohlak, Meelis** Journal of achievements in materials and manufacturing engineering 2008 / 1, p. 63-66 : ill [https://www.researchgate.net/publication/26872864\\_Material\\_parameters\\_identification\\_by\\_use\\_of\\_hybrid\\_GA](https://www.researchgate.net/publication/26872864_Material_parameters_identification_by_use_of_hybrid_GA)

**Modeling constitutive relation for woven polymer-based composites**

**Majak, Jüri; Pohlak, Meelis; Küttner, Rein; Eerne, Martin; Herranen, Henrik** NATO Advanced Research Workshop : Textile Composites : May 18-22, 2009, Kiev, Ukraine 2009 / [3] p

**Modelling a new composite from a recycled GFRP**

**Kers, Jaan; Majak, Jüri** Mechanics of composite materials 2008 / 6, p. 623-632 : ill  
<https://ui.adsabs.harvard.edu/abs/2008MCM....44..623K/abstract>

**Modelling and optimal design of sheet metal RPAMP processes**

**Pohlak, Meelis; Küttner, Rein; Majak, Jüri** Rapid prototyping journal 2005 / 5, p. 304-311 : ill  
<https://www.proquest.com/docview/214029707?sourcetype=Scholarly%20Journals>

### **Modelling and optimal design of sheet metal RPAMP processes**

**Küttner, Rein; Pohlak, Meelis; Majak, Jüri** 10th European Forum on Rapid Prototyping 2004 / p. 7

<https://www.proquest.com/docview/214029707?sourcetype=Scholarly%20Journals>

### **Modelling and testing of the properties of recovered composite material**

**Kers, Jaan; Goljandin, Dmitri; Tall, Kaspar; Aruniit, Aare; Adoberg, Eron; Saarna, Mart; Majak, Jüri** Proceedings of the Tenth International Conference on Computational Structures Technology : Valencia, Spain, 14-17 September 2010 2010 / Paper 81

[https://www.researchgate.net/publication/269140253\\_Modelling\\_and\\_Testing\\_of\\_the\\_Properties\\_of\\_Recovered\\_Composite\\_Material](https://www.researchgate.net/publication/269140253_Modelling_and_Testing_of_the_Properties_of_Recovered_Composite_Material)

### **Modelling FGM materials. An accurate function approximation algorithms**

**Majak, Jüri; Mikola, Madis; Pohlak, Meelis; Eerne, Martin; Karunanidhi, Ramachandran** IOP conference series : materials science and engineering 2021 / art. 012013, 6 p <https://doi.org/10.1088/1757-899X/1140/1/012013>

### **Multicriteria optimization of large composite parts**

**Pohlak, Meelis; Majak, Jüri; Küttner, Rein; Karjust, Kristo** 15th International Conference on Composite Structures ICCS 15 : University of Porto, Porto, Portugal, 15-17 June 2009 2009 / p. 1-2

### **Multi-criteria optimization of large composite parts**

**Pohlak, Meelis; Majak, Jüri; Karjust, Kristo; Küttner, Rein** Composite structures 2010 / 9, p. 2146-2152 : ill

<https://www.sciencedirect.com/science/article/abs/pii/S0263822309003791>

### **Multi-layer cyber-physical control method for mobile robot safety systems**

**Pikner, Heiko; Sell, Raivo; Majak, Jüri; Karjust, Kristo** Proceedings of the Estonian Academy of Sciences 2021 / p. 383-391 : ill

<https://doi.org/10.3176/proc.2021.4.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multi-objective topology optimization of weight critical structures**

**Pohlak, Meelis; Majak, Jüri; Pääsuke, Kaarel; Eerne, Martin; Kõiv, Risto** 16th International Conference on Composite Structures (ICCS16) : Porto, 28-30 June 2011 2011

### **Multistage optimisation strategy for solving production planning problems**

**Küttner, Rein; Majak, Jüri** Control applications of optimization. Vol. 7, part 1 2009 / p. 332-337 : ill

### **Nanoscale vibration analysis of graphene sheets using nonlocal elasticity theory**

**Majak, Jüri; Pohlak, Meelis; Eerne, Martin; Kers, Jaan** Proceedings of the International Conference on Mechanics of Nano, Micro and Macro Composite Structures : 18 to 20 June 2012 2012 / [1] p

### **Nanoscale vibration analysis of graphene sheets using nonlogical elasticity theory**

**Majak, Jüri; Kirs, Maarjuss; Mikola, Madis; Heero, Marek; Herranen, Henrik** ICCE 21 proceedings 2013

### **Nanoscale vibration analysis of orthotropic graphene sheets**

**Majak, Jüri; Eerne, Martin; Lepikult, Toomas; Tungel, Ernst** ICCS17 : 17th International Conference on Composite Structures : Portugal 17-21 June 2013 : book of abstracts 2013

### **New higher order Haar wavelet method : application to FGM structures**

**Majak, Jüri; Pohlak, Meelis; Karjust, Kristo; Eerne, Martin; Kurnitski, Jarek; Shvartsman, Boris** Composite Structures 2018 / p. 72-78 : tab <https://doi.org/10.1016/j.compstruct.2018.06.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Numerical analysis of dynamics of flight of the fragments**

**Kivistik, Lenart; Eerne, Martin; Majak, Jüri; Kirs, Maarjuss** AIP conference proceedings 2024 / art. 030016

<https://doi.org/10.1063/5.0189331> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Numerical analysis of nonlinear wave propagation = Mittelineaarse lainelevi numbriline analüüs**

**Ratas, Mart** 2020 [https://www.ester.ee/record=b5391019\\*est](https://www.ester.ee/record=b5391019*est) <https://digikogu.taltech.ee/et/Item/96b84b2f-8dc3-4c25-8c58-a5dde59d14ea>

### **Numerical method for stability analysis of functionally graded beams on elastic foundation**

Shvartsman, Boris; **Majak, Jüri** Applied Mathematical Modelling 2016 / p. 3713 - 3719 <https://doi.org/10.1016/j.apm.2015.09.060>

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

### **Numerical method for stability analysis of functionally graded columns**

Shvartsman, B.S.; **Majak, Jüri; Kirs, Maarjuss** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 65-70 : ill

### **Numerical modeling of fragment flight dynamics**

**Kivistik, Lenart; Mehrparvar, Marmar; Eerne, 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>

### **Numerical solution of a class of fractional delay differential equations via haar wavelet**

Aziz, Imran; Amin, Rohul; **Majak, Jüri** Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 8-12 <http://innomet.ttu.ee/daaam/>

### **On accuracy of the Haar wavelet method**

**Majak, Jüri**; Shvartsman, Boris; **Pohlak, Meelis**; **Eerme, Martin**; **Kirs, Maarjus** Mathematical modelling and analysis 2016 : abstracts 2016 / p. 50 [http://www.ester.ee/record=b4573512\\*est](http://www.ester.ee/record=b4573512*est)

### **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](#)

### **Optimal adhesion area of the glass-fiber reinforcement layer**

**Karjust, Kristo**; **Pohlak, Meelis**; **Majak, Jüri** 14th European Conference on Composite Materials : 7-10 June 2010, Budapest, Hungary 2010 / [10] p

### **Optimal adhesion measuring methods of the glass fibre reinforcement layer**

**Karjust, Kristo**; **Pohlak, Meelis**; **Majak, Jüri** Estonian journal of engineering 2010 / 4, p. 297-306 : ill

### **Optimal adhesion measuring methods of the glass-fiber reinforcement layer**

**Karjust, Kristo**; **Pohlak, Meelis**; **Majak, Jüri** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [1] 2010 / p. 232-237 : ill

### **Optimal material orientation of linear and non-linear elastic 3D anisotropic materials**

**Majak, Jüri**; **Pohlak, Meelis** Proceedings of Second International Conference on Multidisciplinary Design Optimization and Applications : Gijon, Spain, 3-5 September 2008 2008 / p. 1-11 : ill

### **Optimal material orientation of linear and non-linear elastic 3D anisotropic materials**

**Majak, Jüri**; **Pohlak, Meelis** Meccanica 2010 / 5, p. 671-680 : ill  
[https://www.researchgate.net/publication/225119702\\_Optimal\\_material\\_orientation\\_of\\_linear\\_and\\_non-linear\\_elastic\\_3D\\_anisotropic\\_materials](https://www.researchgate.net/publication/225119702_Optimal_material_orientation_of_linear_and_non-linear_elastic_3D_anisotropic_materials)

### **Optimal product development and manufacturing engineering**

**Küttner, Rein**; **Majak, Jüri**; **Karjust, Kristo**; **Pohlak, Meelis**; **Eerme, Martin** Research in Estonia : present and future 2011 / p. 227-248 : ill

### **Optimization of car frontal protection system**

**Pohlak, Meelis**; **Majak, Jüri**; **Eerme, Martin** International journal for simulation and multidisciplinary design optimization 2007 / p. 31-37 [https://www.researchgate.net/publication/245491476\\_Optimization\\_of\\_car\\_frontal\\_protection\\_system](https://www.researchgate.net/publication/245491476_Optimization_of_car_frontal_protection_system)

### **Optimization of car frontal protection systems**

**Pohlak, Meelis**; **Majak, Jüri**; **Eerme, Martin** Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [1] 2008 / p. 123-128 : ill  
[https://www.researchgate.net/publication/245491476\\_Optimization\\_of\\_car\\_frontal\\_protection\\_system](https://www.researchgate.net/publication/245491476_Optimization_of_car_frontal_protection_system)

### **Optimization study of car frontal protection system**

**Pohlak, Meelis**; **Majak, Jüri**; **Eerme, Martin** ASMDO : First International Conference on Multidisciplinary Design Optimization and Applications : 17-20 April 2007, Besancon, France 2007 / ? p <https://www.ijsmdo.org/articles/smdo/abs/2007/01/smdo0706/smdo0706.html>

### **Optimization study of composite bathtub**

**Pohlak, Meelis**; **Majak, Jüri**; **Karjust, Kristo**; **Küttner, Rein** Proceedings of Second International Conference on Multidisciplinary Design Optimization and Applications : Gijon, Spain, 3-5 September 2008 2008 / p. 1-10 : ill

### **An overview of smart workplace solutions and potential improvement areas**

**Kelpman, Karolin**; **Karjust, Kristo**; **Majak, Jüri** Proceedings of the Estonian Academy of Sciences 2025 / p. 155-159  
<https://doi.org/10.3176/proc.2025.2.13>

### **Particulate filled composite plastic materials from recycled GFRP**

**Kers, Jaan**; **Goljandin, Dmitri**; **Saarna, Mart**; **Aruniit, Aare**; **Tall, Kaspar**; **Majak, Jüri** Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 15

### **Particulate filled composite plastic materials from recycled glass fibre reinforced plastics**

**Aruniit, Aare**; **Kers, Jaan**; **Goljandin, Dmitri**; **Saarna, Mart**; **Tall, Kaspar**; **Majak, Jüri**; **Herranen, Henrik** Materials science = Medžiagotyra 2011 / p. 276-281 : ill

### **Photovoltaic modules, design and manufacturing = Fotoelektrilised moodulid, disain ja tootmine**

**Tšukrejev, Pavel** 2023 <https://doi.org/10.23658/taltech.45/2023> <https://digikogu.taltech.ee/et/Item/a5fe0434-e0d3-4bec-9a61-4444d3d51901>  
[https://www.ester.ee/record=b5574956\\*est](https://www.ester.ee/record=b5574956*est)

### **Plate model for multifunctional laminated glass composite panel**

**Majak, Jüri; Pohlak, Meelis; Shvartsman, Boris; Õunapuu, Erko; Kirs, Maarjus** ICCS19 : 19th International Conference on Composite Structures : Sheraton Porto Hotel & Spa, 5-8 September 2016 : proceedings 2016 / p. 140 <http://dx.doi.org/10.15651/978-88-748-8977-8>

### **PLM maturity model development and implementation in SME**

**Paavel, Marko; Karjust, Kristo; Majak, Jüri** Procedia CIRP 2017 / p. 651-657 <https://doi.org/10.1016/j.procir.2017.03.144> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Preface : Computational Mechanics**

**Majak, Jüri; Sciuva, M. D.** AIP conference proceedings 2020 / art. 230001 <https://doi.org/10.1063/5.0026521> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Preface of the “Symposium on Numerical Analysis and Optimal Design of Materials and Structures”**

**Majak, Jüri; Bassir, David** AIP Conference Proceedings 2022 / art. 380001 <https://doi.org/10.1063/5.0081481> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Preface: Computational mechanics. Analysis and design optimization**

**Majak, Jüri** International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2018), 13–18 September 2018 2019 / art. 330001 <https://doi.org/10.1063/1.5114339> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Prioritization of key performance indicators for small and medium enterprises**

**Kaganski, Sergei; Karjust, Kristo; Majak, Jüri** Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 25-30 : ill <http://innomet.ttu.ee/daaam/>

### **Product lifecycle management maturity model development = Toote elutsükli halduse küpsusmodeli arendus**

**Paavel, Marko** 2018 <https://digi.lib.ttu.ee/i/?9949> [https://www.ester.ee/record=b5056151\\*est](https://www.ester.ee/record=b5056151*est)

### **Production monitoring system development and modification**

**Snatkin, Aleksei; Eiskop, Tanel; Karjust, Kristo; Majak, Jüri** Proceedings of the Estonian Academy of Sciences 2015 / p. 567-580 : ill [https://artiklid.elnet.ee/record=b2750888\\*est](https://artiklid.elnet.ee/record=b2750888*est) <https://doi.org/10.3176/proc.2015.4S.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Quality of photovoltaic modules, experimental evaluation and mathematical modelling**

**Tšukrejev, Pavel; Karjust, Kristo; Majak, Jüri** IOP conference series : materials science and engineering 2021 / art. 012044, 7 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012044>

### **Real time production monitoring system in SME**

**Snatkin, Aleksei; Karjust, Kristo; Majak, Jüri; Aruväli, Tanel; Eiskop, Tanel** Estonian journal of engineering 2013 / p. 62-75 <https://doi.org/10.3176/eng.2013.1.06> [Article at Scopus](#)

### **Real-time crack detection on concrete using non-destructive approaches based on Yolo series : Review**

**Bassir, David; Chang, Haochen; Majak, Jüri** Advances in Machinery, Materials Science and Engineering Application X : Proceedings of the 10th International Conference (MMSE 2024), Paris, France, 27–28 July 2024 2024 / p. 820-826 <https://doi.org/10.3233/ATDE240712> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Real-time monitoring of solar modules manufacturing**

**Tšukrejev, Pavel; Kruuser, Kaarel; Gorbachev, Georgy; Karjust, Kristo; Majak, Jüri** International journal of engineering research in Africa 2020 / p. 9-13 <https://doi.org/10.4028/www.scientific.net/JERA.51.9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Safety system assessment case study of automated vehicle shuttle**

**Pikner, Heiko; Sell, Raivo; Majak, Jüri; Karjust, Kristo** Electronics (Switzerland) 2022 / art. 1162 <https://doi.org/10.3390/electronics11071162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Selection of parameters in adhesive bonding of composite structures**

**Kers, Jaan; Saarna, Mart; Peetsalu, Priidu; Aruniit, Aare; Majak, Jüri; Pohlak, Meelis; Herranen, Henrik** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 53

### **A simple algorithm for formability analysis**

**Majak, Jüri; Pohlak, Meelis; Küttner, Rein** Journal of achievements in materials and manufacturing engineering 2007 / 1, p. 57-60 : ill [https://www.researchgate.net/publication/40784145\\_A\\_simple\\_algorithm\\_for\\_formability\\_analysis](https://www.researchgate.net/publication/40784145_A_simple_algorithm_for_formability_analysis)



#### **Simulation of incremental forming of sheet metal products**

**Pohlak, Meelis; Küttner, Rein; Majak, Jüri; Karjust, Kristo; Sutt, Annes** Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 149-151 : ill

#### **Simulation of incremental forming processes of sheet metal**

**Pohlak, Meelis; Küttner, Rein; Majak, Jüri** Proceedings of 3th International Conference on Advances in Production Engineering : Warsaw, Poland, June 17-19, 2004. Part II 2004 / p. 133-140

#### **Solution of fractional order differential equation by the Haar wavelet method. Numerical convergence analysis for most commonly used approach**

**Majak, Jüri; Shvartsman, Boris; Pohlak, Meelis; Karjust, Kristo; Eerme, Martin; Tungel, Ernst** International Conference of Numerical Analysis and Applied Mathematics 2015 (ICNAAM 2015) : 22-28 September 2015, Rhodes, Greece 2016 / p. 480110-1 - 480110-4 <https://doi.org/10.1063/1.4952346> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **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](#)

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

**Sorrenti, M.; Di Sciuva, 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](#)

#### **Stationary of the strain energy density in anisotropic solids**

**Majak, Jüri; Pohlak, Meelis** World journal of engineering 2011 / p. 765-766  
<https://www.sciencedirect.com/science/article/abs/pii/S0020768303003718>

#### **Stationary of the strain energy density in anisotropic solids**

**Majak, Jüri; Pohlak, Meelis** 8th World Congress on Structural and Multidisciplinary Optimization 2009 / ? p

#### **A symbolic-numerical algorithm for material parameter identification**

**Majak, Jüri; Pohlak, Meelis; Küttner, Rein; Eerme, Martin; Karjust, Kristo; Kers, Jaan** Proceedings of the Tenth International Conference on Computational Structures Technology : Valencia, Spain, 14-17 September 2010 2010 / Paper 133

#### **Symbolic-numerical algorithm for material parameters identification**

**Majak, Jüri; Küttner, Rein; Pohlak, Meelis** First International Conference on Multidisciplinary Design Optimization and Applications : 17-20 April 2007, Besancon, France : book of abstracts 2007 / p. 68 [https://www.researchgate.net/publication/269140167\\_A\\_Symbolic-Numerical\\_Algorithm\\_for\\_Material\\_Parameter\\_Identification](https://www.researchgate.net/publication/269140167_A_Symbolic-Numerical_Algorithm_for_Material_Parameter_Identification)

#### **Technology route planning of large composite parts**

**Karjust, Kristo; Pohlak, Meelis; Majak, Jüri** International journal of material forming 2010 / Suppl. 1, p. 631-634 : ill  
<https://link.springer.com/article/10.1007/s12289-010-0849-2>

#### **The influence of embedded electronics on the structural performance in carbon fiber laminates**

**Herranen, Henrik; Kers, Jaan; Preden, Jürjo-Sören; Talalaev, Robert; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Alikas, Georg; Pabut, Ott; Lend, Henri** Proceedings of the International Conference on Mechanics of Nano, Micro and Macro Composite Structures : 18 to 20 June 2012 2012 / [2 p.]

#### **TTÜ masinaehituse instituut : tööstuse konkurentsivõime tõstmise**

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

#### **Using stochastic optimization for modelling of the new composite from recycled GFP**

**Kers, Jaan; Goljandin, Dmitri; Majak, Jüri** Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 461-466 : ill

#### **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

**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