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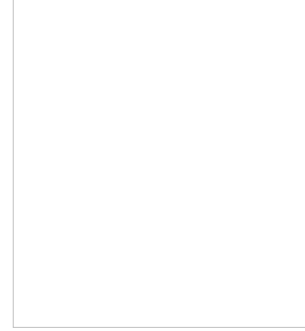
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Education

Doctorate 2002 - 2008	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (Dr), Turkey
Postgraduate 1998 - 2002	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (YI) (Tezli), Turkey
Undergraduate 1994 - 1998	Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, High frequency vibrations of thin plates, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (Dr), 2008

Postgraduate, Acoustic design sensitivity analysis for vibrating bodies, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (YI) (Tezli), 2002

Academic Positions

Professor 2019 - Continues	Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü
Associate Professor 2014 - 2019	Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü

Scholarships

Bilim Adamı Destekleme, TÜBİTAK, 2019 - 2020

Marie Curie , European Commission, 2009 - 2011

Journal articles indexed in SCI, SSCI, and AHCI

- 1. Stochastic prediction of natural frequencies of laminated composite beams by using a high-order statistical moment based approach**
Kara M., SEÇGİN A., Baygun T., Akyol C. G.
COMPOSITE STRUCTURES, vol.290, 2022 (SCI-Expanded)
- 2. Discrete singular convolution-polynomial chaos expansion method for free vibration analysis of non-uniform uncertain beams**
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JOURNAL OF VIBRATION AND CONTROL, vol.28, no.9-10, pp.1165-1175, 2022 (SCI-Expanded)
- 3. Discrete singular convolution method for modelling of waveguide interaction of beam-type structures with impedance boundaries**
Kara M., SEÇGİN A.
ENGINEERING STRUCTURES, vol.247, 2021 (SCI-Expanded)
- 4. Sensitivity analysis of laminated composite plates with different orientations in low to high order modes**
Kara M., Guler S., Secgin A.
SMART MATERIALS AND STRUCTURES, vol.30, no.8, 2021 (SCI-Expanded)
- 5. A stochastic model for the speed of leak noise propagation in plastic water pipes ?**
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JOURNAL OF SOUND AND VIBRATION, vol.501, 2021 (SCI-Expanded)
- 6. Discrete Singular Convolution Method for Acoustic Transmission Lines**
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ACOUSTICS AUSTRALIA, vol.48, no.2, pp.271-285, 2020 (SCI-Expanded)
- 7. The effects of material uncertainty on low-to high frequency vibrations of thin plates using a statistical moment based approach**
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- 8. Determination of effective medium parameters of an in-line cavity based acoustic metamaterials with visco-thermal losses**
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- 9. Discrete singular convolution method for one-dimensional vibration and acoustics problems with impedance boundaries**
Kara M., SEÇGİN A.
JOURNAL OF SOUND AND VIBRATION, vol.446, pp.22-36, 2019 (SCI-Expanded)
- 10. A modal impedance-based statistical energy analysis for vibro-acoustic analysis of complex systems**

having structural uncertainty

SEÇGİN A., Kara M., Ozankan A.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.233, no.6, pp.1972-1989, 2019 (SCI-Expanded)

11. **Stochastic Vibration Analyses of Laminated Composite Plates via a Statistical Moments-Based Methodology**

SEÇGİN A., Kara M.

JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, vol.7, no.1, pp.73-82, 2019 (SCI-Expanded)

12. **Mid and high frequency vibration analysis of line connected uncertain composite structures by using modal impedance based statistical energy analysis procedure**

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13. **Vibration bounding of uncertain thin beams by using an extreme value model based on statistical moments**

SEÇGİN A., Kara M.

JOURNAL OF VIBRATION AND CONTROL, vol.24, no.23, pp.5627-5641, 2018 (SCI-Expanded)

14. **A modal impedance technique for mid and high frequency analysis of an uncertain stiffened composite plate**

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15. **Determinations of in-situ energy loss factors of point-connected composite plates**

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16. **Modal and response bound predictions Of uncertain rectangular composite plates based on an extreme value model**

SEÇGİN A.

JOURNAL OF SOUND AND VIBRATION, vol.332, no.5, pp.1306-1323, 2013 (SCI-Expanded)

17. **Numerical determination of statistical energy analysis parameters of directly coupled composite plates using a modal-based approach**

SEÇGİN A.

JOURNAL OF SOUND AND VIBRATION, vol.332, no.2, pp.361-377, 2013 (SCI-Expanded)

18. **Extreme-Value-Based Statistical Bounding of Low, Mid, and High Frequency Responses of a Forced Plate With Random Boundary Conditions**

SEÇGİN A., Dunne J. F., Zoghaib L.

JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME, vol.134, no.2, 2012 (SCI-Expanded)

19. **An Efficient Sound Source Localization Technique via Boundary Element Method**

SEÇGİN A., Sarigul A. S.

VIBRATION AND STRUCTURAL ACOUSTICS ANALYSIS: CURRENT RESEARCH AND RELATED TECHNOLOGIES, pp.151-181, 2011 (SCI-Expanded)

20. **An efficient sound source determination process based on half-space boundary element method**

SEÇGİN A., SARIGÜL A. S.

INTERNATIONAL JOURNAL OF MECHANICS AND MATERIALS IN DESIGN, vol.6, no.1, pp.17-25, 2010 (SCI-Expanded)

21. **The Effects of Composite Plate Design Parameters on Linear Vibrations by Discrete Singular Convolution Method**

Seçgin A., Atas C., Sarigül A. S.

JOURNAL OF COMPOSITE MATERIALS, vol.43, no.24, pp.2963-2986, 2009 (SCI-Expanded)

22. **Sensitivity analysis of submerged arc welding process parameters**

KARAOĞLU S., SEÇGİN A.

JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.202, pp.500-507, 2008 (SCI-Expanded)

Articles Published in Other Journals

1. **İç Boşluklu Akustik Metamalzemelerin Homojenizasyonu ve İletim Kayıplarının Transfer Matris Metodu ile Belirlenmesi**
SEÇGİN A., Baygün T.
Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.21, no.62, pp.449-459, 2019 (Peer-Reviewed Journal)
2. **İnce Bir Çubuğun Belirsiz Doğal Frekanslarının Çokterimli Kaos Açılımı ile Matematiksel Olarak Modellenmesi**
KARA M., SEÇGİN A.
Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.20, no.60, pp.852-862, 2018 (Peer-Reviewed Journal)
3. **Monte-Carlo simülasyonsuz-Uç Değer Modelleme ile Kompozit Bir Plakanın Belirsiz Titreşim Sınırlarının Belirlenmesi**
KARA M., SEÇGİN A.
Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.20, no.59, pp.509-523, 2018 (Peer-Reviewed Journal)
4. **Vibration response bound prediction of uncertain structures via an extreme value based modelling**
SEÇGİN A.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.19, no.1, pp.15-23, 2013 (ESCI)

Books

1. **Acoustic Design Sensitivity Analysis for Vibrating Bodies**
SEÇGİN A., SARIGÜL A. S.
Lambert Academic Publishing, İstanbul, 2010
2. **Vibration Analysis of Plates by Discrete Singular Convolution Method**
Seçgin A., Sarigül A. S.
Lambert Academic Publishing, Saarbrücken, 2010

Papers Presented at Peer-Reviewed Scientific Conferences

1. **On the Effect of Cellular Periodicity of Acoustic Transmission Line Metamaterials with Visco-thermal Effects**
Baygün T., SEÇGİN A.
International Conference on Engineering Technologies (ICENTE'21), Konya, Turkey, 18 November 2021, (Full Text)
2. **Geometrik Belirsizliğe Sahip İnce Çubukların Çok Terimli Kaos Açılımı Temelli Ayırık Tekil Konvolüsyon Yöntemi İle Titreşim Analizi**
KARA M., SEÇGİN A.
19. Ulusal Makina Teorisi ve Sempozyumu, Antakya, Turkey, 4 - 06 September 2019, pp.30-37, (Full Text)
3. **Low Speed Balancing Procedure of Spiral Rotors Used for Wastewater Purification**
AK A. F., SARIOĞLU A., KARA M., SEÇGİN A.
4th International Mediterranean Science and Engineering Congress-IMSEC 2019, Antalya, Turkey, 25 - 27 April 2019, (Full Text)
4. **COMPARISON OF BARITE AND COLEMANITE LOADED POLYPROPYLENE COMPOSITES IN TERMS OF SOUND TRANSMISSION LOSS**
SARIKANAT M., ALTAY L., ÖZKAYA M., SEÇGİN A., İSBİLİR A., SEKİ Y.
3rd International Conference on Engineering Technology and Applied Sciences (ICETAS), Üsküp, Macedonia, 17 - 21 July 2018, pp.184, (Summary Text)
5. **The Effect of Various Minerals on Sound Absorption and Other Properties of Polypropylene**

SARIKANAT M., SEÇGİN A., UYSALMAN T., SEVİĞ TANTUĞ G., ÖZKAYA M., ATAGÜR M., ALTAY L., SEKİ Y.
8th International Advances in Applied Physics and Materials Science Congress Exhibition APMAS 2018, Muğla, Turkey, 24 - 30 April 2018, pp.146, (Summary Text)

6. **Selection of the Best Geometrical Parameters for a Truncated Pyramid Diffuser Based on Sound Transmission Loss under Air-Flow**
YAPANMIŞ B. E., SEÇGİN A., ERDOĞAN A., AKSOY İ. G.
International Advances Researches Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.41-45, (Full Text)
7. **Empedans Tüpü ile Malzemelerin Farklı Geliş Açılarındaki Ses Yutma Katsayısının Belirlenmesi**
SEÇGİN A., KARA M., İHTİYAROĞLU Y., OZANKAN A.
18. Ulusal Makina Teorisi Sempozyumu, Trabzon, Turkey, 5 - 07 July 2017, pp.308-316, (Full Text)
8. **Akustik Yalıtım Malzemelerinin Ses Yutma Katsayılarının Farklı Sıcaklık Koşulları Altındaki Değişiminin Deneysel Olarak İncelenmesi**
SEÇGİN A., İHTİYAROĞLU Y., KARA M., OZANKAN A.
18. Ulusal Makina Teorisi Sempozyumu, Trabzon, Turkey, 5 - 07 July 2017, pp.317-324, (Full Text)
9. **Extreme value modelling of natural frequencies of uncertain composite plate**
SEÇGİN A., KARA M., Ozankan A.
International Science Symposium, Turkey, 1 - 04 September 2016, (Full Text)
10. **On the transmission loss of a hybrid muffler system**
SEÇGİN A., KARA M., Ozankan A., YAPANMIŞ B. E.
15th Anglo-French Physical Acoustics Conference, Londrina, Brazil, 13 - 15 January 2016, (Summary Text)
11. **Experimental Vibro Acoustic Modal Analysis of a Composite Tube**
SEÇGİN A., İHTİYAROĞLU Y., KARA M.
International Conference on Advances in Applied and Computational Mechanics, 5 - 07 August 2015, (Summary Text)
12. **Comparison of vibro acoustic performances of composite and brass tubes under acoustic excitation**
SEÇGİN A., İHTİYAROĞLU Y., YAPANMIŞ B. E.
International Conference on Advances in Applied and Computational Mechanics, 5 - 07 August 2015, (Summary Text)
13. **Uç Değer Tabanlı Modelleme ile Belirsiz Kompozit Bir Plakanın Deneysel Titreşim Cevap Sınırlarının Tahmin Edilmesi**
SEÇGİN A., KARA M., OZANKAN A.
Uluslararası katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, vol.1, pp.46-51, (Full Text)
14. **Yapısal Akustik Sistemlerin İstatistiksel Enerji Analizi Parametrelerinin Sayısal Olarak Belirlenmesi**
SEÇGİN A., KARA M., KASABA M.
Uluslararası katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, vol.1, pp.717-725, (Full Text)
15. **Vibro Acoustic Response Bound Prediction of an Uncertain Structural Acoustic System**
SEÇGİN A., KARA M., KASABA M., OZANKAN A.
International Conference on Advances in Vibrations, 30 March - 01 April 2015, vol.1, (Summary Text)
16. **L-Tip Bağlı Kompozit Plakaların Deneysel İstatiksel Enerji Analizi**
Seçgin A., Kara M., Ozankan A., Sarıgül A. S.
16. Ulusal Makine Teorisi Sempozyumu, Erzurum, Turkey, 12 - 13 September 2013, pp.1-6, (Full Text)
17. **Bir genişleme odasına sahip boru sisteminin akustik performans parametrelerinin belirlenmesi**
SEÇGİN A., Ozankan A., KARA M.
16. Ulusal Makine Teorisi Sempozyumu, Erzurum, Turkey, 12 - 13 September 2013, pp.6-11, (Full Text)
18. **Preliminary results from the new multiwavelength aerosol lidar scanning system in Turkey**
Huseyinoglu M. F., Salaeva Z., SEÇGİN A., Allahverdiev K. R.
19th International Symposium on High-Power Laser Systems and Applications (HPLS&A), İstanbul, Turkey, 10 - 14 September 2012, vol.8677, (Full Text)
19. **The possibility of using remote sensing technology of lidars for monitoring ecosystem health by**

detecting habitat condition

Huseyinoglu M. F., Salaeva Z., SEÇGİN A., Allakhverdiev S. R., Allakhverdiev K. R.

19th International Symposium on High-Power Laser Systems and Applications (HPLS&A), İstanbul, Turkey, 10 - 14 September 2012, vol.8677, (Full Text)

20. Statistical energy analysis of an uncertain vehicle floor using modal-based approaches

SEÇGİN A., Zoghaib L., Xie G., Dunne L. W., Dunne J. F.

International Symposium on the Computational Modelling and Analysis of Vehicle Body Noise and Vibration, Brighton, United Kingdom, 27 - 28 March 2012, vol.1, pp.31-40, (Full Text)

21. Mid-frequency modelling of a car floor structure with hybrid method and SEA

Xie G., Dunne L. W., SEÇGİN A., Zoghaib L., Dunne J. F.

International Symposium on the Computational Modelling and Analysis of Vehicle Body Noise and Vibration, Sussex, United Kingdom, 27 - 28 March 2012, vol.1, pp.11-20, (Full Text)

22. Katı ve Empedans Yüzeyler İçeren Yarım Bir Uzaydaki Ses Kaynaklarının Analizi

Ertunç S., Seçgin A., Sarıgül A. S.

15. Ulusal Makine Teorisi Sempozyumu, Niğde, Turkey, 16 - 18 June 2011, pp.173-183, (Full Text)

23. High frequency FRF bound prediction for uncertain symmetrically-laminated composite plates

SEÇGİN A., Dunne J. F., Zoghaib L.

International Conference on Uncertainty in Structural Dynamics (USD2010), Leuven, Belgium, 20 - 22 September 2010, pp.1-16, (Full Text)

24. Transfrequency FRF bounding of uncertain plate structures using extreme value theory and discrete singular convolution

SEÇGİN A., Dunne J. F., Zoghaib L.

IV. European Conference on Computational Mechanics, Paris, France, 16 - 21 May 2010, pp.1-12, (Full Text)

25. Sound source localization and determination of a refrigerator by using half space boundary element method (BEM)

Seçgin A., Ertunç S., Özütürk B., Yıldırım K., Sarıgül A. S.

3rd International Conference on Integrity, Reliability Failure, Porto, Portugal, 20 - 24 July 2009, pp.1-10, (Full Text)

26. Bir Buzdolabı Kompresörünün Deneyisel Modal Analizi

Seçgin A., Ertunç S., Özütürk B., Yıldırım K., Sarıgül A. S.

14. Ulusal Makine Teorisi Sempozyumu, Güzelyurt, Cyprus (Kktc), 2 - 04 July 2009, pp.1-11, (Full Text)

27. Investigation of the effects of material and fiber orientation angles on the modal characteristics of thin FML composite plates by using discrete singular convolution (DSC) approach

Seçgin A., Atas C., Sarıgül A. S.

Ankara International Aerospace Conference, Ankara, Turkey, 18 - 20 September 2007, pp.1-11, (Full Text)

28. Ayrık Tekil Konvolüsyon (DSC) Yöntemi ile Yüksek Frekans Serbest Titreşim Analizi

Seçgin A., Sarıgül A. S.

13. Ulusal Makina Teorisi Sempozyumu, Sivas, Turkey, 7 - 09 June 2007, vol.1, pp.159-167, (Full Text)

29. Yapısal-Akustik Bağlılığının Boşluk-Plaka Sistem Karakteristiğine Etkisi

Arpaz Ö., Seçgin A., Sarıgül A. S.

13. Ulusal Makina Teorisi Sempozyumu, Sivas, Turkey, 7 - 09 June 2007, pp.573-582, (Full Text)

30. Geleneksel Vibro-akustik Yöntemlerin Yüksek Frekanslardaki Yetenek ve Doğruluklarının İncelenmesi ve Değerlendirilmesi

Seçgin A., Sarıgül A. S.

13. Ulusal Makina Teorisi Sempozyumu, Sivas, Turkey, 7 - 09 June 2007, pp.601-613, (Full Text)

31. Titreşen Cisimlerin Yapısal-Akustik Analizi

Sarıgül A. S., Seçgin A., Arpaz Ö.

12. Ulusal Makina Teorisi Sempozyumu, Kayseri, Turkey, 9 - 12 June 2005, vol.1, pp.235-246, (Full Text)

32. Bir Çamaşır Makinasının Akustik Tasarım Duyarlık Analizi

Seçgin A., Sarıgül A. S.

11. Ulusal Makina Teorisi Sempozyumu, Ankara, Turkey, 4 - 06 September 2003, vol.2, pp.417-425, (Full Text)

33. Sınır Elemanları Metodu ile Akustik Tasarım Duyarlık Analizi

SARIGÜL A. S., SEÇGİN A.

10.Ulusal Makina Teorisi Sempozyumu, Konya, Turkey, 1 - 03 September 2001, pp.38-47, (Full Text)

Academic and Administrative Experience

2018 - 2018	Assistant Director of the Institute	Dokuz Eylul University
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Patent

SEÇGİN A., A Wheel Shroud Manufactures From Meta-material, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2020

Metrics

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H-Index (WoS): 9

H-Index (Scopus): 10

Research Areas

Engineering and Technology