

Prof. ALİ RIZA YILDIZ

Personal Information

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Biography

Lisans, Yüksek Lisans ve Doktora derecelerini Bursa Uludağ Üniversitesi Mühendislik Fakültesi, Makine Mühendisliği Bölümünde tamamladı. Amerika Birleşik Devletlerinde bulunan Michigan Üniversitesi ve Mississippi State Üniversitelerinde Makine Mühendisliği ve Havacılık Mühendisliği Bölümlerinde doktora sonrası araştırmacı olarak çalıştı. Bursa Uludağ üniversitesi, Makine Mühendisliği Bölümünde öğretim üyesi olarak görev yapmaktadır.

2020 yılında Türkiye Bilimler Akademisi (TÜBA) üyesi olarak seçilmiştir. TÜBİTAK Teşvik Ödülü, TÜBA-GEBİP(Üstün Başarılı Genç Bilim Adamı) Ödülü ve ODTÜ Prof. Dr. Mustafa Parlar Teşvik Ödülü'ne layık görülmüştür.

YÖK-ÜAK (Yüksek Öğretim Kurulu-Üniversitelerarası Kurul) üyeliği, TÜBİTAK Yürütme Komitesi üyeliği, Üniversite-Sanayi İşbirliğinden sorumlu Rektör Danışmanlığı, Dekan Yardımcılığı, Makine Mühendisliği Bölüm Başkanlığı, Endüstri Mühendisliği Bölüm Başkanlığı, Mimarlık Bölüm Başkanlığı, Uygulama ve Araştırma Merkezi Müdürlüğü, Fakülte Kurulu Üyeliği, Fakülte Yönetim Kurulu üyeliği, Yüksek Okul Müdürlüğü, Senato Üyeliği gibi farklı idari görevlerde bulundu.

2020-2022 yılları arasında Türk Havacılık ve Uzay Sanayi A.Ş. de (TUSAŞ) Ar-Ge Merkezi Müdürü olarak görev yaptı ve yerli hava araçlarının geliştirilmesine yönelik farklı projelerde görev aldı. 2019 ve 2020 yılında Amerika Birleşik Devletleri ve Hollanda'dan bilim insanlarının yer aldığı bir ekip tarafından hazırlanan "dünyanın en etkili bilim insanları" listesinde yer aldı. Bu listeye Türkiye'den giren 1150 araştırmacı arasında 16'ncı sırada yer almıştır.

TÜBİTAK-ARDEB, Bilim Sanayi ve Teknoloji Bakanlığı destekli San-Tez projelerinde yürütücü olarak görev yapmıştır. Oyak-Renault Otomobil Fabrikaları Ar-ge Merkezi, Beyçelik Holding Ar-Ge Merkezi, Yeşilova Holding Ar-Ge Merkezi, Coşkunöz Holding Ar-ge Merkezi, Toksan Ar-Ge Merkezi, Valeo Fren Sistemleri, gibi çeşitli yerli ve yabancı ortaklı firmaların çok sayıda TÜBİTAK-TEYDEB destekli 1501 ve 1505 Ar-Ge projelerinde optimum ürün geliştirmeden sorumlu akademik danışman ve proje yürütücüsü olarak görev aldı.

Q1 kategorisindeki Information Sciences, International Journal of Vehicle Design, Journal of Intelligent Manufacturing, International Journal of Advanced Manufacturing Technology, Expert Systems başta olmak üzere çeşitli SCI, SCI-Expanded indexlerinde taranan dergilerde Associate editor, Guest editor ve Editorial Board Member olarak görev yaptı.

Education Information

Doctorate, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2001 - 2006

Postgraduate, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1999 - 2001

Undergraduate, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1995 - 1999

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Heuristic Methods, Machine Design, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Plastic Forming Methods, Finite Element Methods

Academic Titles / Tasks

Professor, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, 2016 - Continues
Associate Professor, Bursa Technical University, Faculty Of Natural Sciences, Architecture And Engineering, Department Of Mechanical Engineering, 2011 - 2016
Assistant Professor, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, 2009 - 2011
Lecturer PhD, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, 2006 - 2009
Research Assistant, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, 1999 - 2006

Academic and Administrative Experience

TÜBA(Türkiye Bilimler Akademisi) Üyesi, 2020 - Continues
Director Of Junior College, Bursa Uludağ University, Gemlik Necati Kurtuluş Denizcilik Yüksekokulu, 2019 - 2021
Manager of Research and Application Center, Bursa Technical University, Research Center For Automotive Technologies, 2016 - 2017
Yüksek Öğretim Kurulu- Üniversiteler Arası Kurul(YÖK-ÜAK) Üyesi, 2015 - 2017
Head of Department, Bursa Technical University, Faculty Of Engineering And Natural Sciences, Department Of Mechanical Engineering, 2014 - 2017
Fakülte Kurulu Üyesi, Bursa Technical University, Faculty Of Natural Sciences, Architecture And Engineering, 2011 - 2017
Fakülte Yönetim Kurulu Üyesi, Bursa Technical University, Faculty Of Natural Sciences, Architecture And Engineering, 2011 - 2017
Head of Department, Bursa Technical University, Faculty Of Engineering And Natural Sciences, Department Of Industrial Engineering, 2011 - 2017
Vice Dean, Bursa Technical University, Faculty Of Engineering And Natural Sciences, Department Of Mechanical Engineering, 2011 - 2017
Rector's Advisor, Bursa Technical University, Rectorate, 2015 - 2016

Courses

Makine Elemanları, Undergraduate, 2021 - 2022
Mühendislikte Optimizasyon, Doctorate, 2020 - 2021
Sayısal Analiz, Undergraduate, 2019 - 2020

Advising Theses

Yıldız A. R. , Development of vehicle suspension components with structural optimization techniques, Postgraduate, Y.Düzcan(Student), Continues
Yıldız A. R. , Taşıt tavan barı tasarımı geliştirilmesi, Postgraduate, H.CİHAD(Student), 2022
Yıldız A. R. , TAŞIT DEBRİYAJ ELEMANLARININ OPTİMİZASYONU İÇİN YAPAY ZEKA ALGORİTMASI TABANLI BİR SİSTEMİN GELİŞTİRİLMESİ, Doctorate, A.KARADUMAN(Student), 2022
Yıldız A. R. , ÖN SALINCAK KOLU YAPISAL OPTİMİZASYONU, Postgraduate, A.ÇELİK(Student), 2022
Yıldız A. R. , ÇARPIŞMA SÖNÜMLEYİCİ KONSTRÜKSİYONUN YAPISAL OPTİMİZASYON YÖNTEMLERİ KULLANILARAK HAFİFLETİLMESİ, Postgraduate, B.DENER(Student), 2021
Yıldız A. R. , OTOMOTİV MÜHENDİSLİĞİNDE GÜVENİLİRLİK TEMELLİ TASARIM OPTİMİZASYONU, Postgraduate, E.SOYLU(Student), 2021
Yıldız A. R. , OPTIMUM DESIGN OF UNMANNED AERIAL VEHICLES USING STRUCTURAL OPTIMIZATION TECHNIQUES, Postgraduate, M.SHERIFF(Student), 2021
Yıldız A. R. , DİREKSİYON MAFSALININ YAPISAL OPTİMİZASYON YÖNTEMLERİ KULLANILARAK AĞIRLIĞININ

AZALTILMASI , Postgraduate, A.Keten(Student), 2020
Yıldız A. R. , Optimum design for crash behavior of bumper in air spring, Postgraduate, H.ARAZ(Student), 2020
Yıldız A. R. , Yenilikçi tasarım yöntemleri kullanarak eklemeli imalata yönelik optimum ürün geliştirilmesi, Postgraduate, B.Aslan(Student), 2020
YILDIZ A. R. , Yenilikçi tasarım yöntemleri kullanarak eklemeli imalata yönelik optimum ürün geliştirilmesi, Postgraduate, B.ASLAN(Student), 2019
Yıldız A. R. , Yapısal optimizasyon teknikleri ile taşıt süspansiyon bileşenlerinin geliştirilmesi, Postgraduate, Y.DÜZCAN(Student), 2019
YILDIZ A. R. , Güvenilirlik temelli optimizasyon teknikleri ile taşıt elemanlarının tasarımı için yeni yaklaşımların geliştirilmesi, Doctorate, E.DEMİRCİ(Student), 2018
YILDIZ A. R. , Yeni nesil yapısal optimizasyon teknikleri ile yüksek performanslı yolcu koltuğu komponentlerinin geliştirilmesi, Postgraduate, M.ARSLAN(Student), 2018
Yıldız A. R. , Taşıt debriyaj diyafram yaylarının yük karakteristiği ve gerilme kısıtları altında sezgisel yöntemler ile tasarımı, Postgraduate, A.Karaduman(Student), 2017
YILDIZ A. R. , Sac şekillendirme etkisi dikkate alınarak yüksek performanslı taşıt pasif güvenlik sistemlerinin geliştirilmesi, Postgraduate, A.YILDIRIM(Student), 2017
YILDIZ A. R. , Taşıt debriyaj diyafram yaylarının yük karakteristiği ve gerilme kısıtları altında sezgisel yöntemler ile optimum tasarımı, Postgraduate, A.KARADUMAN(Student), 2017
Yıldız A. R. , Biyel kolu analizi, optimizasyonu ve yorulma davranışının incelenmesi, Postgraduate, H.Acar(Student), 2017
YILDIZ A. R. , Yüksek performanslı taşıt güvenlik sistemlerinin geliştirilmesi, Doctorate, S.KARAGÖZ(Student), 2016
YILDIZ A. R. , Biyel kolu analizi, optimizasyonu ve yorulma davranışının incelenmesi, Postgraduate, H.ACAR(Student), 2016
YILDIZ A. R. , Yeni nesil otokorkuluk sistemlerinin çarpışma analizleri ve sezgisel optimizasyon yöntemleri kullanılarak geliştirilmesi, Postgraduate, E.KURTULUŞ(Student), 2015
YILDIZ A. R. , Taşıtlarda önden çarpışma performansını etkileyen enerji yutucuların optimum tasarımı, Postgraduate, E.DEMİRCİ(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Efficient decoupling-assisted evolutionary/metaheuristic framework for expensive reliability-based design optimization problems**
Meng Z., YILDIZ A. R. , Mirjalili S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.205, 2022 (Peer-Reviewed Journal)
- II. **Artificial gorilla troops algorithm for the optimization of a fine plate heat exchanger**
Gurses D., Mehta P., Patel V., Sait S. M. , YILDIZ A. R.
MATERIALS TESTING, vol.64, no.9, pp.1325-1331, 2022 (Peer-Reviewed Journal)
- III. **A new chaotic Levy flight distribution optimization algorithm for solving constrained engineering problems**
Yıldız B. S. , Kumar S., Pholdee N., Bureerat S., Sait S. M. , Yıldız A. R.
EXPERT SYSTEMS, vol.39, no.8, 2022 (Peer-Reviewed Journal)
- IV. **African vultures optimization algorithm for optimization of shell and tube heat exchangers**
Gurses D., Mehta P., Sait S. M. , YILDIZ A. R.
MATERIALS TESTING, vol.64, no.8, pp.1234-1241, 2022 (Peer-Reviewed Journal)
- V. **An efficient two-stage water cycle algorithm for complex reliability-based design optimization problems**
Meng Z., Li H., Zeng R., Mirjalili S., YILDIZ A. R.
NEURAL COMPUTING & APPLICATIONS, 2022 (Peer-Reviewed Journal)
- VI. **A Nelder Mead-infused INFO algorithm for optimization of mechanical design problems**
Mehta P., YILDIZ B. S. , Kumar S., Pholdee N., Sait S. M. , Panagant N., Bureerat S., YILDIZ A. R.
MATERIALS TESTING, vol.64, no.8, pp.1172-1182, 2022 (Peer-Reviewed Journal)

- VII. **A new hybrid artificial hummingbird-simulated annealing algorithm to solve constrained mechanical engineering problems**
 YILDIZ B. S. , Mehta P. , Sait S. M. , Panagant N., Kumar S., YILDIZ A. R.
 MATERIALS TESTING, vol.64, no.7, pp.1043-1050, 2022 (Peer-Reviewed Journal)
- VIII. **A novel chaotic Henry gas solubility optimization algorithm for solving real-world engineering problems**
 YILDIZ B. S. , Pholdee N., Panagant N., Bureerat S., YILDIZ A. R. , Sait S. M.
 ENGINEERING WITH COMPUTERS, vol.38, no.SUPPL 2, pp.871-883, 2022 (Peer-Reviewed Journal)
- IX. **On the comparative performance of recent swarm intelligence based algorithms for optimization of real-life Sterling cycle operated refrigeration/liquefaction system**
 Raja B. D. , Patel V. K. , Savsani V. J. , YILDIZ A. R.
 ARTIFICIAL INTELLIGENCE REVIEW, 2022 (Peer-Reviewed Journal)
- X. **Gradient-based optimizer for economic optimization of engineering problems**
 Mehta P., YILDIZ B. S. , Sait S. M. , YILDIZ A. R.
 MATERIALS TESTING, vol.64, no.5, pp.690-696, 2022 (Peer-Reviewed Journal)
- XI. **Mixed reliability-oriented topology optimization for thermo-mechanical structures with multi-source uncertainties**
 Meng Z., Guo L., YILDIZ A. R. , Wang X.
 ENGINEERING WITH COMPUTERS, 2022 (Peer-Reviewed Journal)
- XII. **Hunger games search algorithm for global optimization of engineering design problems**
 Mehta P., YILDIZ B. S. , Sait S. M. , YILDIZ A. R.
 MATERIALS TESTING, vol.64, no.4, pp.524-532, 2022 (Peer-Reviewed Journal)
- XIII. **Hybridised differential evolution and equilibrium optimiser with learning parameters for mechanical and aircraft wing design**
 Wansasueb K., Panmanee S., Panagant N., Pholdee N., Bureerat S., YILDIZ A. R.
 KNOWLEDGE-BASED SYSTEMS, vol.239, 2022 (Peer-Reviewed Journal)
- XIV. **Manta ray foraging optimization algorithm and hybrid taguchi salp swarm-nelder mead algorithm for the structural design of engineering components**
 Yıldız A. R. , Mehta P.
 MATERIALPRUEFUNG/MATERIALS TESTING, vol.64, no.3, pp.51-61, 2022 (Peer-Reviewed Journal)
- XV. **Multi-objective optimization of build orientation considering support structure volume and build time in laser powder bed fusion**
 Günaydın A. C. , Yıldız A. R. , KAYA N.
 MATERIALS TESTING, vol.64, no.3, pp.323-338, 2022 (Peer-Reviewed Journal)
- XVI. **A novel maximum volume sampling model for reliability analysis**
 Meng Z., Pang Y., Wu Z., Ren S., YILDIZ A. R.
 APPLIED MATHEMATICAL MODELLING, vol.102, pp.797-810, 2022 (Peer-Reviewed Journal)
- XVII. **Aircraft Control Parameter Estimation Using Self-Adaptive Teaching-Learning-Based Optimization with an Acceptance Probability**
 Kanokmedhakul Y., Panagant N., Bureerat S., Pholdee N., YILDIZ A. R.
 COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, vol.2021, 2021 (Peer-Reviewed Journal)
- XVIII. **Comparison of metaheuristic optimization algorithms for solving constrained mechanical design optimization problems**
 Gupta S., Abderazek H., YILDIZ B. S. , YILDIZ A. R. , Mirjalili S., Sait S. M.
 EXPERT SYSTEMS WITH APPLICATIONS, vol.183, 2021 (Peer-Reviewed Journal)
- XIX. **Optimal design of aerospace structures using recent meta-heuristic algorithms**
 Korkmaz F. F. , Subran M., YILDIZ A. R.
 MATERIALS TESTING, vol.63, no.11, pp.1025-1031, 2021 (Peer-Reviewed Journal)
- XX. **Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems**
 YILDIZ B. S. , Pholdee N., Bureerat S., YILDIZ A. R. , Sait S. M.

ENGINEERING WITH COMPUTERS, 2021 (Peer-Reviewed Journal)

- XXI. **A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems**
Gurses D., Pholdee N., Bureerat S., Sait S. M. , YILDIZ A. R.
MATERIALS TESTING, vol.63, no.6, pp.560-564, 2021 (Peer-Reviewed Journal)
- XXII. **Hybrid Taguchi-Levy flight dis-tribution optimization algorithm for solving real-world design optimization problems**
Yildiz M., Panagant N., Pholdee N., Bureerat S., Sait S. M. , YILDIZ A. R.
MATERIALS TESTING, vol.63, no.6, pp.547-551, 2021 (Peer-Reviewed Journal)
- XXIII. **Optimization of constrained mechanical design problems using the equilibrium optimization algorithm**
Abderazek H., YILDIZ A. R. , Sait S. M.
MATERIALS TESTING, vol.63, no.6, pp.552-559, 2021 (Peer-Reviewed Journal)
- XXIV. **Qualitative and Quantitative Performance Comparison of Recent Optimization Algorithms for Economic Optimization of the Heat Exchangers**
Patel V., Raja B., Savsani V., YILDIZ A. R.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, vol.28, no.4, pp.2881-2896, 2021 (Peer-Reviewed Journal)
- XXV. **Multiobjective crashworthiness optimization of graphene type multi-cell tubes under various loading conditions**
Albak E. İ. , Solmaz E., Yıldız A. R. , Öztürk F.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.43, no.5, 2021 (Peer-Reviewed Journal)
- XXVI. **Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm**
YILDIZ B. S. , Pholdee N., Bureerat S., YILDIZ A. R. , Sait S. M.
EXPERT SYSTEMS, vol.38, no.3, 2021 (Peer-Reviewed Journal)
- XXVII. **Comparative Performance of Twelve Metaheuristics for Wind Farm Layout Optimisation**
Kunakote T., Sabangban N., Kumar S., Tejani G. G. , Panagant N., Pholdee N., Bureerat S., YILDIZ A. R.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, 2021 (Peer-Reviewed Journal)
- XXVIII. **Conceptual comparison of the ecogeography-based algorithm, equilibrium algorithm, marine predators algorithm and slime mold algorithm for optimal product design**
YILDIZ B. S. , Patel V., Pholdee N., Sait S. M. , Bureerat S., YILDIZ A. R.
MATERIALS TESTING, vol.63, no.4, pp.336-340, 2021 (Peer-Reviewed Journal)
- XXIX. **Comparision of the political optimization algorithm, the Archimedes optimization algorithm and the Levy flight algorithm for design optimization in industry**
Yildiz B. S. , Pholdee N., Bureerat S., Erdas M. U. , YILDIZ A. R. , Sait S. M.
MATERIALS TESTING, vol.63, no.4, pp.356-359, 2021 (Peer-Reviewed Journal)
- XXX. **EMoSOA: a new evolutionary multi-objective seagull optimization algorithm for global optimization**
Dhiman G., Singh K. K. , Slowik A., Chang V., YILDIZ A. R. , Kaur A., Garg M.
INTERNATIONAL JOURNAL OF MACHINE LEARNING AND CYBERNETICS, vol.12, no.2, pp.571-596, 2021 (Peer-Reviewed Journal)
- XXXI. **A new Hybrid Taguchi-salp swarm optimization algorithm for the robust design of real-world engineering problems**
YILDIZ A. R. , Erdas M. U.
MATERIALS TESTING, vol.63, no.2, pp.157-162, 2021 (Peer-Reviewed Journal)
- XXXII. **A comparative analysis of the queuing search algorithm, the sine-cosine algorithm, the ant lion algorithm to determine the optimal weight design problem of a spur gear drive system**
Abderazek H., Hamza F., YILDIZ A. R. , Gao L., Sait S. M.
MATERIALS TESTING, vol.63, no.5, pp.442-447, 2021 (Peer-Reviewed Journal)
- XXXIII. **Comparison of the arithmetic optimization algorithm, the slime mold optimization algorithm, the marine predators algorithm, the salp swarm algorithm for real-world engineering applications**

- Gures D., Bureerat S., Sait S. M., YILDIZ A. R.
MATERIALS TESTING, vol.63, no.5, pp.448-452, 2021 (Peer-Reviewed Journal)
- XXXIV. **A New Arithmetic Optimization Algorithm for Solving Real-World Multiobjective CEC-2021 Constrained Optimization Problems: Diversity Analysis and Validations**
Premkumar M., Jangir P., Kumar B. S., Sowmya R., Alhelou H. H., Abualigah L., YILDIZ A. R., Mirjalili S.
IEEE ACCESS, vol.9, pp.84263-84295, 2021 (Peer-Reviewed Journal)
- XXXV. **Comparative investigation of the moth-flame algorithm and whale optimization algorithm for optimal spur gear design**
Abderazek H., Hamza F., YILDIZ A. R., Sait S. M.
MATERIALS TESTING, vol.63, no.3, pp.266-271, 2021 (Peer-Reviewed Journal)
- XXXVI. **A novel hybrid marine predators-Nelder-Mead optimization algorithm for the optimal design of engineering problems**
Panagant N., Yildiz M., Pholdee N., YILDIZ A. R., Bureerat S., Sait S. M.
MATERIALS TESTING, vol.63, no.5, pp.453-457, 2021 (Peer-Reviewed Journal)
- XXXVII. **A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems**
Panagant N., Pholdee N., Bureerat S., YILDIZ A. R., Mirjalili S.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, 2021 (Peer-Reviewed Journal)
- XXXVIII. **A Comparative Study of Recent Non-traditional Methods for Mechanical Design Optimization**
YILDIZ A. R., Abderazek H., Mirjalili S.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, vol.27, no.4, pp.1031-1048, 2020 (Peer-Reviewed Journal)
- XXXIX. **Sine-cosine optimization algorithm for the conceptual design of automobile components**
Yildiz B. S., Pholdee N., Bureerat S., YILDIZ A. R., Sait S. M.
MATERIALS TESTING, vol.62, no.7, pp.744-748, 2020 (Peer-Reviewed Journal)
- XL. **Optimum design of automobile components using lattice structures for additive manufacturing**
Aslan B., YILDIZ A. R.
MATERIALS TESTING, vol.62, no.6, pp.633-639, 2020 (Peer-Reviewed Journal)
- XLI. **Seagull optimization algorithm for solving real-world design optimization problems**
Panagant N., Pholdee N., Bureerat S., YILDIZ A. R., Sait S. M.
MATERIALS TESTING, vol.62, no.6, pp.640-644, 2020 (Peer-Reviewed Journal)
- XLII. **The equilibrium optimization algorithm and the response surface based metamodel for optimal structural design of vehicle components**
Ozkaya H., Yildiz M., YILDIZ A. R., Bureerat S., Yildiz B. S., Sait S. M.
MATERIALS TESTING, vol.62, no.5, pp.492-496, 2020 (Peer-Reviewed Journal)
- XLIII. **Light-weight design of automobile suspension components using topology and shape optimization techniques**
KARADERE G., Duzcan Y., YILDIZ A. R.
MATERIALS TESTING, vol.62, no.5, pp.454-458, 2020 (Peer-Reviewed Journal)
- XLIV. **Self-adaptive many-objective meta-heuristic based on decomposition for many-objective conceptual design of a fixed wing unmanned aerial vehicle**
Champasak P., Panagant N., Pholdee N., Bureerat S., YILDIZ A. R.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.100, 2020 (Peer-Reviewed Journal)
- XLV. **A Comparative Study of Metaheuristic Algorithms for Reliability-Based Design Optimization Problems**
Meng Z., Li G., Wang X., Sait S. M., YILDIZ A. R.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, 2020 (Peer-Reviewed Journal)
- XLVI. **Butterfly optimization algorithm for optimum shape design of automobile suspension components**
Yildiz B. S., YILDIZ A. R., ALBAK E. İ., Abderazek H., Sait S. M., Bureerat S.
MATERIALS TESTING, vol.62, no.4, pp.365-370, 2020 (Peer-Reviewed Journal)
- XLVII. **A novel hybrid Harris hawks-simulated annealing algorithm and RBF-based metamodel for design**

optimization of highway guardrails

Kurtulus D., YILDIZ A. R. , Sait S. M. , Bureerat S., Kaen K.

MATERIALS TESTING, vol.62, no.3, pp.251-260, 2020 (Peer-Reviewed Journal)

- XLVIII. **Comparison of recent optimization algorithms for design optimization of a cam-follower mechanism**
Abderazek H., YILDIZ A. R. , Mirjalili S.
KNOWLEDGE-BASED SYSTEMS, vol.191, 2020 (Peer-Reviewed Journal)
- XLIX. **Optimum design of an air suspension seat using recent structural optimization techniques**
Balkan A., YILDIZ A. R. , Sait S. M. , Bureerat S.
MATERIALS TESTING, vol.62, no.3, pp.242-250, 2020 (Peer-Reviewed Journal)
- L. **The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components**
Yildiz B. S. , YILDIZ A. R. , Pholdee N., Bureerat S., Sait S. M. , Patel V.
MATERIALS TESTING, vol.62, no.3, pp.261-264, 2020 (Peer-Reviewed Journal)
- LI. **A novel hybrid whale-Nelder-Mead algorithm for optimization of design and manufacturing problems**
YILDIZ A. R.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.105, no.12, pp.5091-5104, 2019 (Peer-Reviewed Journal)
- LII. **The Harris hawks, grasshopper and multi-verse optimization algorithms for the selection of optimal machining parameters in manufacturing operations**
YILDIZ A. R. , Yildiz B. S. , Sait S. M. , Li X.
MATERIALS TESTING, vol.61, no.8, pp.725-733, 2019 (Peer-Reviewed Journal)
- LIII. **A new hybrid Harris hawks-Nelder-Mead optimization algorithm for solving design and manufacturing problems**
YILDIZ A. R. , Yildiz B. S. , Sait S. M. , Bureerat S., Pholdee N.
MATERIALS TESTING, vol.61, no.8, pp.735-743, 2019 (Peer-Reviewed Journal)
- LIV. **The Harris hawks optimization algorithm, salp swarm algorithm, grasshopper optimization algorithm and dragonfly algorithm for structural design optimization of vehicle components**
Yildiz B. S. , YILDIZ A. R.
MATERIALS TESTING, vol.61, no.8, pp.744-748, 2019 (Peer-Reviewed Journal)
- LV. **A new hybrid approach for reliability-based design optimization of structural components**
Demirci E., YILDIZ A. R.
MATERIALS TESTING, vol.61, no.2, pp.111-119, 2019 (Peer-Reviewed Journal)
- LVI. **Experimental and numerical fatigue-based design optimisation of clutch diaphragm spring in the automotive industry**
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INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.80, no.2-4, pp.330-345, 2019 (Peer-Reviewed Journal)
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ASME International Design Engineering Technical Conferences/Computers and Information in Engineering Conference, New York, United States Of America, 3 - 06 August 2008, pp.1235-1245

Supported Projects

Yıldız B. S. , Yıldız A. R. , TUBİTAK Project, Taşıt Elemanlarının Optimum Yapısal Tasarımı İçin Yeni Bir Yaklaşım Geliştirilmesi, 2014 - 2016

Yıldız A. R. , Industrial Thesis Project, Sac Şekillendirme Etkisi Dikkate Alınarak Taşıt Pasif Güvenlik Sistemlerinin Optimum Tasarımı, 2014 - 2016

Yıldız B. S. , Yıldız A. R. , Industrial Thesis Project, Sac Şekillendirme Etkisi Dikkate Alınarak Yüksek Performanslı Taşıt Pasif Güvenlik Sistemlerinin Geliştirilmesi, 2012 - 2014

Yıldız A. R. , Industrial Thesis Project, Taşıtlarda Önden Çarpışma Performansını Etkileyen Enerji Yutucuların Optimum Tasarımı, 2012 - 2014

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Yıldız A. R. , Pala Y., Yıldırım A., Özcan Ş., DÖRT KOL KAPUT MENTEŞE ALGORİTMASI, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2015/08800 , Standard Registration, 2021

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Yıldız A. R. , Web of Science'ta Q1, Q2 ve Q3 Değerindeki Dergilerde Yıllık Toplam Yayın Ödülü, Uludağ Üniversitesi, December 2021

Yıldız A. R. , TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, December 2017

Yıldız A. R. , TÜBA ÜSTÜN BAŞARILI GENÇ BİLİM ADAMI ÖDÜLÜ-TÜBA GEBİP, Türkiye Bilimler Akademisi(Tüba), December 2015

Yıldız A. R. , ODTÜ PROF. DR. MUSTAFA PARLAR VAKFI ARAŞTIRMA TEŞVİK ÖDÜLÜ, Odtü Prof. Dr. Mustafa Parlar Vakfı, December 2015

Non Academic Experience

Public Corporation

TUBITAK