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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.

2023 yılında Türkiye Bilimler Akademisi (TÜBA) Asli üyesi olarak seçilmiştir. 2017 yılında TÜBİTAK Bilim Teşvik Ödülü, 2015 yılında TÜBA-GEBİP(Üstün Başarılı Genç Bilim Adamı) Ödülü ve ODTÜ Prof. Dr. Mustafa Parlar Teşvik Ödülü'ne layık görülmüştür. 2019, 2020, 2021, 2022 ve 2023 yılında Stanford üniversitesinden bilim insanlarının yer aldığı bir ekip tarafından hazırlanan "dünyanın en etkili bilim insanları" listesinde yer aldı. Bu listeye Türkiye'den giren tüm disiplinlerdeki bilim insanları arasında 16'ncı sırada yer almıştır.

Üniversite-Sanayi İşbirliğinden sorumlu Rektör Danışmanlığı, Mühendislik Fakültesi Dekan Yardımcılığı, Makine Mühendisliği Bölüm Başkanlığı, Endüstri Mühendisliği Bölüm Başkanlığı, Mimarlık Bölüm Başkanlığı, Matematik Bölüm Başkanlığı, YÖK-ÜAK (Yüksek Öğretim Kurulu-Üniversitelerarası Kurul) üyeliği, TÜBİTAK Yürütme Komitesi üyeliği, 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.

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 A.Ş., Akpres Ar-ge Merkezi, 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.

Çeşitli SCI, SCI- Expanded indexlerinde taranan dergilerde Associate editor, Guest editor ve Editorial Board Member olarak görev yaptı.

Education Information

Doctorate, Turkey 2001 - 2006

Research Areas

Numerical Algorithms, Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks, Machine Elements, Machine Design, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Welding Methods, Plastic Forming Methods, Machining Methods, Finite Element Methods, Mechanical Properties, Composites, Engineering and Technology

Supervised Theses

YILDIZ A. R., Taşıt debriyaj diyafram yaylarının yük karakteristiği ve gerilme kısıtları altında sezgisel yöntemler ile optimum 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

Yıldız A. R., Biyel kolu analizi, optimizasyonu ve yorulma davranışının incelenmesi, Postgraduate, H.Acar(Student), 2017

YILDIZ A. R., Biyel kolu analizi, optimizasyonu ve yorulma davranışının incelenmesi, Postgraduate, H.ACAR(Student), 2016

YILDIZ A. R., Yüksek performanslı taşıt güvenlik sistemlerinin geliştirilmesi, Doctorate, S.KARAGÖZ(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. **Enhanced hippopotamus optimization algorithm and artificial neural network for mechanical component design**
Mehta P., Sait S. M., YILDIZ B. S., YILDIZ A. R.
MATERIALS TESTING, no.4, pp.655-662, 2025 (SCI-Expanded)
- II. **Improved material generation algorithm by opposition-based learning and laplacian crossover for global optimization and advances in real-world engineering problems**
Mehta P., Kumar S., Sait S. M., Yildiz B. S., YILDIZ A. R.
MATERIALS TESTING, no.4, pp.737-746, 2025 (SCI-Expanded)
- III. **Starfish optimization algorithm (SFOA): a bio-inspired metaheuristic algorithm for global optimization compared with 100 optimizers**
Zhong C., Li G., Meng Z., Li H., YILDIZ A. R., Mirjalili S.
Neural Computing and Applications, vol.37, no.5, pp.3641-3683, 2025 (SCI-Expanded)
- IV. **Enhanced crashworthiness performance of auxetic structures using artificial neural network and geyser inspired algorithm**
YILDIZ B. S., YILDIZ A. R., Yakupoglu C.
MATERIALS TESTING, vol.67, no.2, pp.353-360, 2025 (SCI-Expanded)
- V. **Multi-objective optimization of truss structures using the enhanced Lichtenberg algorithm**
Panagant N., Mahajan S., Sait S. M., YILDIZ B. S., YILDIZ A. R., Khodadadi N., Mehta P.
MATERIALS TESTING, vol.67, no.2, pp.297-312, 2025 (SCI-Expanded)
- VI. **Comparative study of state-of-the-art metaheuristics for solving constrained mechanical design optimization problems: experimental analyses and performance evaluations**
Mehta P., Abderazek H., Kumar S., Sait S. M., YILDIZ B. S., YILDIZ A. R.
MATERIALS TESTING, vol.67, no.2, pp.249-281, 2025 (SCI-Expanded)
- VII. **Advanced structural design of engineering components utilizing an artificial neural network and GNDO algorithm**

YILDIZ A. R., YILDIZ B. S.

MATERIALS TESTING, no.1, pp.183-188, 2025 (SCI-Expanded)

- VIII. **Optimization of truss structures using multi-objective cheetah optimizer**
Kumar S., Tejani G. G., Mehta P., Sait S. M., YILDIZ A. R., Mirjalili S.
Mechanics Based Design of Structures and Machines, vol.53, no.2, pp.1494-1515, 2025 (SCI-Expanded)
- IX. **Centroid opposition-based backtracking search algorithm for global optimization and engineering problems**
Debnath S., Debbarma S., Nama S., Saha A. K., Dhar R., YILDIZ A. R., Gandomi A. H.
Advances in Engineering Software, vol.198, 2024 (SCI-Expanded)
- X. **Artificial neural network infused quasi oppositional learning partial reinforcement algorithm for structural design optimization of vehicle suspension components**
Sait S. M., Mehta P., Pholdee N., YILDIZ B. S., YILDIZ A. R.
MATERIALS TESTING, vol.66, no.11, pp.1855-1863, 2024 (SCI-Expanded)
- XI. **Optimization of vehicle crashworthiness problems using recent twelve metaheuristic algorithms**
Kumar S., YILDIZ B. S., Mehta P., Sait S. M., Hussien A. G., YILDIZ A. R.
MATERIALS TESTING, no.11, pp.1890-1901, 2024 (SCI-Expanded)
- XII. **Optimization of vehicle conceptual design problems using an enhanced hunger games search algorithm**
Mehta P., Panagant N., Wansasueb K., Sait S. M., YILDIZ A. R., Kumar S., YILDIZ B. S., Hussien A. G.
MATERIALS TESTING, no.11, pp.1864-1889, 2024 (SCI-Expanded)
- XIII. **Experimental and numerical investigation of crash performances of additively manufactured novel multi-cell crash box made with CF15PET, PLA, and ABS**
Kopar M., YILDIZ A. R.
MATERIALS TESTING, no.9, pp.1510-1518, 2024 (SCI-Expanded)
- XIV. **A novel chaotic artificial rabbits algorithm for optimization of constrained engineering problems**
Duzgun E., ACAR E., YILDIZ A. R.
MATERIALS TESTING, vol.66, no.9, pp.1449-1462, 2024 (SCI-Expanded)
- XV. **Optimal design of structural engineering components using artificial neural network-assisted crayfish algorithm**
Sait S. M., Mehta P., YILDIZ A. R., YILDIZ B. S.
MATERIALS TESTING, vol.66, no.9, pp.1439-1448, 2024 (SCI-Expanded)
- XVI. **A comparison of recent optimization algorithms for build orientation problems in additive manufacturing**
Gunaydin A. C., YILDIZ A. R.
MATERIALS TESTING, 2024 (SCI-Expanded)
- XVII. **Metaheuristic-assisted complex H-infinity flight control tuning for the Hawkeye unmanned aerial vehicle: A comparative study**
Kanokmedhakul Y., Bureerat S., Panagant N., Radpukdee T., Pholdee N., YILDIZ A. R.
Expert Systems with Applications, vol.248, 2024 (SCI-Expanded)
- XVIII. **Optimization of electric vehicle design problems using improved electric eel foraging optimization algorithm**
Mehta P., YILDIZ B. S., Sait S. M., YILDIZ A. R.
MATERIALS TESTING, vol.66, no.8, pp.1230-1240, 2024 (SCI-Expanded)
- XIX. **Enhancing the structural performance of engineering components using the geometric mean optimizer**
Mehta P., YILDIZ A. R., Sait S. M., YILDIZ B. S.
Materialpruefung/Materials Testing, vol.66, no.7, pp.1063-1073, 2024 (SCI-Expanded)
- XX. **Optimum design of additively manufactured aerospace components with different lattice structures**
Taşçl M., Erdaş M. U., GÖKTUĞ M. R., Yildiz B. S., Yildiz A. R.
MATERIALS TESTING, no.6, pp.876-882, 2024 (SCI-Expanded)
- XXI. **Modified crayfish optimization algorithm for solving multiple engineering application problems**

Jia H., Zhou X., Zhang J., Abualigah L., YILDIZ A. R., Hussien A. G.

Artificial Intelligence Review, vol.57, no.5, 2024 (SCI-Expanded)

- XXII. **Crash performance of a novel bio-inspired energy absorber produced by additive manufacturing using PLA and ABS materials**
Erdaş M. U., YILDIZ B. S., Yildiz A. R.
MATERIALS TESTING, vol.66, no.5, pp.696-704, 2024 (SCI-Expanded)
- XXIII. **A new enhanced mountain gazelle optimizer and artificial neural network for global optimization of mechanical design problems**
Mehta P., Sait S. M., YILDIZ B. S., Erdas M. U., Kopar M., YILDIZ A. R.
MATERIALS TESTING, vol.66, pp.544-552, 2024 (SCI-Expanded)
- XXIV. **Experimental analysis of the effects of different production directions on the mechanical characteristics of ABS, PLA, and PETG materials produced by FDM**
Erdaş M. U., YILDIZ B. S., YILDIZ A. R.
MATERIALS TESTING, vol.66, no.2, pp.198-206, 2024 (SCI-Expanded)
- XXV. **Experimental Investigation on Mechanical properties of CF15PET and GF30PP materials produced with different raster angles**
Kopar M., Erdaş M. U., YILDIZ A. R.
MATERIALS TESTING, vol.66, no.6, pp.847-855, 2024 (SCI-Expanded)
- XXVI. **GBRUN: A Gradient Search-based Binary Runge Kutta Optimizer for Feature Selection**
Dou Z., Chu S., Zhuang Z., YILDIZ A. R., Pan J.
JOURNAL OF INTERNET TECHNOLOGY, vol.25, no.3, pp.341-353, 2024 (SCI-Expanded)
- XXVII. **Ship Rescue Optimization: A New Metaheuristic Algorithm for Solving Engineering Problems**
Chu S., Wang T. -, Yildiz A. R., Pan J.
JOURNAL OF INTERNET TECHNOLOGY, vol.25, no.1, pp.61-78, 2024 (SCI-Expanded)
- XXVIII. **Optimum design of a composite drone component using slime mold algorithm**
Kopar M., Yildiz A. R., Yildiz B. S.
MATERIALS TESTING, vol.65, no.12, pp.1857-1864, 2023 (SCI-Expanded)
- XXIX. **Experimental investigation of mechanical properties of PLA, ABS, and PETG 3-d printing materials using fused deposition modeling technique**
Kopar M., YILDIZ A. R.
Materialpruefung/Materials Testing, vol.65, no.12, pp.1795-1804, 2023 (SCI-Expanded)
- XXX. **Optimum design of a seat bracket using artificial neural networks and dandelion optimization algorithm**
Erdaş M. U., Kopar M., YILDIZ B. S., YILDIZ A. R.
Materialpruefung/Materials Testing, vol.65, no.12, pp.1767-1775, 2023 (SCI-Expanded)
- XXXI. **A novel hybrid Fick's law algorithm-quasi oppositional-based learning algorithm for solving constrained mechanical design problems**
Mehta P., YILDIZ B. S., Sait S. M., YILDIZ A. R.
Materialpruefung/Materials Testing, vol.65, no.12, pp.1817-1825, 2023 (SCI-Expanded)
- XXXII. **Grid-based many-objective optimiser for aircraft conceptual design with multiple aircraft configurations**
Champasak P., Panagant N., Pholdee N., Bureerat S., Rajendran P., YILDIZ A. R.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.126, 2023 (SCI-Expanded)
- XXXIII. **Performance of scientific law-inspired optimization algorithms for constrained engineering applications**
Raja B. D., Patel, V. K., Yildiz A. R., Kotecha P.
ENGINEERING OPTIMIZATION, vol.55, no.10, pp.1798-1812, 2023 (SCI-Expanded)
- XXXIV. **A multi-strategy boosted prairie dog optimization algorithm for global optimization of heat exchangers**
GÜRSES D., Mehta P., Sait S. M., Kumar S., YILDIZ A. R.
MATERIALS TESTING, vol.65, no.9, pp.1396-1404, 2023 (SCI-Expanded)

- XXXV. **PINN-FORM: A new physics-informed neural network for reliability analysis with partial differential equation**
Meng Z., Qian Q., Xu M., Yu B., YILDIZ A. R., Mirjalili S.
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, vol.414, 2023 (SCI-Expanded)
- XXXVI. **Cheetah optimization algorithm for optimum design of heat exchangers**
Sait S. M., Mehta P., GÜRSES D., YILDIZ A. R.
MATERIALS TESTING, vol.65, no.8, pp.1230-1236, 2023 (SCI-Expanded)
- XXXVII. **Application of state-of-the-art multiobjective metaheuristic algorithms in reliability-based design optimization: a comparative study**
Meng Z., YILDIZ B. S., Li G., Zhong C., Mirjalili S., YILDIZ A. R.
Structural and Multidisciplinary Optimization, vol.66, no.8, 2023 (SCI-Expanded)
- XXXVIII. **Composite disc optimization using hunger games search optimization algorithm**
Kopar M., YILDIZ A. R.
MATERIALS TESTING, vol.65, no.8, pp.1222-1229, 2023 (SCI-Expanded)
- XXXIX. **A Comparative Study of State-of-the-art Metaheuristics for Solving Many-objective Optimization Problems of Fixed Wing Unmanned Aerial Vehicle Conceptual Design**
Anosri S., Panagant N., Champasak P., Bureerat S., Thipyopas C., Kumar S., Pholdee N., YILDIZ B. S., YILDIZ A. R.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, vol.30, no.6, pp.3657-3671, 2023 (SCI-Expanded)
- XL. **A novel hybrid arithmetic optimization algorithm for solving constrained optimization problems**
YILDIZ B. S., Kumar S., Panagant N., Mehta P., Sait S. M., YILDIZ A. R., Pholdee N., Bureerat S., Mirjalili S.
KNOWLEDGE-BASED SYSTEMS, vol.271, 2023 (SCI-Expanded)
- XLI. **Simultaneous aerodynamic and structural optimisation of a low-speed horizontal-axis wind turbine blade using metaheuristic algorithms**
Sabangban N., Panagant N., Bureerat S., Wansasueb K., Kuma S., YILDIZ A. R., Pholdee N.
MATERIALS TESTING, vol.65, no.5, pp.699-714, 2023 (SCI-Expanded)
- XLII. **Experimental and numerical investigation of crashworthiness performance for optimal automobile structures using response surface methodology and oppositional based learning differential evolution algorithm**
Yildirim A., Demirci E., Karagöz S., Özcan S., YILDIZ A. R.
MATERIALS TESTING, vol.65, no.3, pp.346-363, 2023 (SCI-Expanded)
- XLIII. **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, vol.56, no.2, pp.1297-1317, 2023 (SCI-Expanded)
- XLIV. **Chaotic marine predators algorithm for global optimization of real-world engineering problems**
Kumar S., YILDIZ B. S., Mehta P., Panagant N., Sait S. M., Mirjalili S., YILDIZ A. R.
KNOWLEDGE-BASED SYSTEMS, vol.261, 2023 (SCI-Expanded)
- XLV. **A novel generalized normal distribution optimizer with elite oppositional based learning for optimization of mechanical engineering problems**
Mehta P., Sultan Yildiz B. S., Pholdee N., Kumar S., Riza Yildiz A. R., Sait S. M., Bureerat S.
MATERIALS TESTING, vol.65, no.2, pp.210-223, 2023 (SCI-Expanded)
- XLVI. **Performance of scientific law-inspired optimization algorithms for constrained engineering applications**
Raja B. D., Patel V. K., Yıldız A. R., Kotecha P.
ENGINEERING OPTIMIZATION, vol.55, no.10, pp.1798-1812, 2023 (SCI-Expanded)
- XLVII. **A novel hybrid flow direction optimizer-dynamic oppositional based learning algorithm for solving complex constrained mechanical design problems**
YILDIZ B. S., Pholdee N., Mehta P., Sait S. M., Kumar S., Bureerat S., YILDIZ A. R.
MATERIALS TESTING, vol.65, no.1, pp.134-143, 2023 (SCI-Expanded)
- XLVIII. **Airfoil Shape Optimisation Using a Multi-Fidelity Surrogate-Assisted Metaheuristic with a New Multi-Objective Infill Sampling Technique**

Aye C. M., Wansaseub K., Kumar S., Tejani G. G., Bureerat S., YILDIZ A. R., Pholdee N.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.137, pp.2111-2128, 2023 (SCI-Expanded)

- XLIX. **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, vol.38, no.6, pp.5489-5505, 2022 (SCI-Expanded)
- L. **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, vol.34, no.23, pp.20993-21013, 2022 (SCI-Expanded)
- LI. **A novel chaotic Runge Kutta optimization algorithm for solving constrained engineering problems**
YILDIZ B. S., Mehta P., Panagant N., Mirjalili S., YILDIZ A. R.
JOURNAL OF COMPUTATIONAL DESIGN AND ENGINEERING, vol.9, no.6, pp.2452-2465, 2022 (SCI-Expanded)
- LII. **Minimization of release bearing load loss in a clutch system for high-speed rotations using the differential evolution algorithm**
Karaduman A., Lekesiz H., YILDIZ A. R.
MATERIALS TESTING, vol.64, no.11, pp.1627-1635, 2022 (SCI-Expanded)
- LIII. **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 (SCI-Expanded)
- LIV. **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, vol.38, no.5, pp.4207-4219, 2022 (SCI-Expanded)
- LV. **Reptile search algorithm and kriging surrogate model for structural design optimization with natural frequency constraints**
YILDIZ B. S., Bureerat S., Panagant N., Mehta P., YILDIZ A. R.
MATERIALS TESTING, vol.64, no.10, pp.1504-1511, 2022 (SCI-Expanded)
- LVI. **Aircraft conceptual design using metaheuristic-based reliability optimisation**
Champasak P., Panagant N., Pholdee N., Vio G. A., Bureerat S., YILDIZ B. S., Yildiz A. R.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.129, 2022 (SCI-Expanded)
- LVII. **A new chaotic Levy flight distribution optimization algorithm for solving constrained engineering problems**
Yildiz B. S., Kumar S., Pholdee N., Bureerat S., Sait S. M., Yildiz A. R.
EXPERT SYSTEMS, vol.39, no.8, 2022 (SCI-Expanded)
- LVIII. **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 (SCI-Expanded)
- LIX. **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 (SCI-Expanded)
- LX. **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 (SCI-Expanded)
- LXI. **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 (SCI-Expanded)
- LXII. **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 (SCI-Expanded)
- LXIII. **Manta ray foraging optimization algorithm and hybrid Taguchi salp swarm-Nelder-Mead algorithm for the structural design of engineering components**
Yildiz A. R., Mehta P.
MATERIALS TESTING, vol.64, no.5, pp.706-713, 2022 (SCI-Expanded)
- LXIV. **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 (SCI-Expanded)
- LXV. **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 (SCI-Expanded)
- LXVI. **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 (SCI-Expanded)
- LXVII. **Multi-objective optimization of build orientation considering support structure volume and build time in laser powder bed fusion**
Günaydın A. C., Yildiz A. R., KAYA N.
MATERIALS TESTING, vol.64, no.3, pp.323-338, 2022 (SCI-Expanded)
- LXVIII. **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 (SCI-Expanded)
- LXIX. **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, vol.29, no.1, pp.717-730, 2022 (SCI-Expanded)
- LXX. **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 (SCI-Expanded)
- LXXI. **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 (SCI-Expanded)
- LXXII. **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 (SCI-Expanded)
- LXXIII. **A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems**
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