



## Personal Information

Web: <http://aliriza.home.uludag.edu.tr/>

### International Researcher IDs

ORCID: 0000-0003-1790-6987

Publons / Web Of Science ResearcherID: GCC-2201-2022

ScopusID: 7102365439

Yoksis Researcher ID: 19992

## 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

## Advising 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. **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)
- II. **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)
- III. **A novel chaotic artificial rabbits algorithm for optimization of constrained engineering problems**  
Duzgun E., ACAR E., YILDIZ A. R.  
MATERIALS TESTING, 2024 (SCI-Expanded)
- IV. **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, 2024 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **Experimental analysis of the effects of different production directions on the mechanical characteristics of ABS, PLA, and PETG materials produced by FDM**  
Erdas M. U., YILDIZ B. S., YILDIZ A. R.

- MATERIALS TESTING, vol.66, no.2, pp.198-206, 2024 (SCI-Expanded)
- VIII. **Experimental Investigation on Mechanical properties of CF15PET and GF30PP materials produced with different raster angles**  
Kopar M., Erdas M. U., YILDIZ A. R.  
MATERIALS TESTING, vol.66, no.6, pp.847-855, 2024 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)

- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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., Yıldız A. R.  
EXPERT SYSTEMS, vol.39, no.8, 2022 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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.  
MATERIALS TESTING, vol.64, no.5, pp.706-713, 2022 (SCI-Expanded)
- XLV. **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)
- XLVI. **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)
- XLVII. **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 (SCI-Expanded)
- XLVIII. **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)

- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **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)
- LIV. **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, vol.28, no.5, pp.4031-4047, 2021 (SCI-Expanded)
- LV. **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 (SCI-Expanded)
- LVI. **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 (SCI-Expanded)
- LVII. **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 (SCI-Expanded)
- LVIII. **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 (SCI-Expanded)
- LIX. **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 (SCI-Expanded)
- LX. **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, vol.28, no.3, pp.1853-1869, 2021 (SCI-Expanded)
- LXI. **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 (SCI-Expanded)
- LXII. **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 (SCI-Expanded)
- LXIII. **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 (SCI-Expanded)
- LXIV. **EMoSQA: 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 (SCI-Expanded)
- LXV. **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 (SCI-Expanded)
- LXVI. **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 (SCI-Expanded)
- LXVII. **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 (SCI-Expanded)
- LXVIII. **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 (SCI-Expanded)
- LXIX. **Hybrid spotted hyena-Nelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations**  
Pholdee N., Patel V. K., Sait S. M., Bureerat S., Yildiz A. R.  
MATERIALS TESTING, vol.63, no.3, pp.293-298, 2021 (SCI-Expanded)
- LXX. **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.  
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