

# Doddy Prayogo

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

2,420  
citations

394421

19  
h-index

552781

26  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1596  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Symbiotic Organisms Search: A new metaheuristic optimization algorithm. Computers and Structures, 2014, 139, 98-112.   | 4.4 | 1,200     |
| 2  | A novel Multiple Objective Symbiotic Organisms Search (MOSOS) for timeâ€‘costâ€‘labor utilization tradeoff problem. Knowledge-Based Systems, 2016, 94, 132-145.  | 7.1 | 128       |
| 3  | A Hybrid Harmony Search algorithm for discrete sizing optimization of truss structure. Automation in Construction, 2016, 69, 21-33.  | 9.8 | 119       |
| 4  | Symbiotic organisms search algorithm: Theory, recent advances and applications. Expert Systems With Applications, 2019, 119, 184-209.  | 7.6 | 109       |
| 5  | Structural optimization using multi-objective modified adaptive symbiotic organisms search. Expert Systems With Applications, 2019, 125, 425-441.  | 7.6 | 95        |
| 6  | High-performance concrete compressive strength prediction using Genetic Weighted Pyramid Operation Tree (GW POT). Engineering Applications of Artificial Intelligence, 2014, 29, 104-113.                | 8.1 | 90        |
| 7  | Multiobjective adaptive symbiotic organisms search for truss optimization problems. Knowledge-Based Systems, 2018, 161, 398-414.   | 7.1 | 82        |
| 8  | Optimizing Multiple-Resources Leveling in Multiple Projects Using Discrete Symbiotic Organisms Search. Journal of Computing in Civil Engineering, 2016, 30, .  | 4.7 | 81        |
| 9  | Novel Genetic Algorithm-Based Evolutionary Support Vector Machine for Optimizing High-Performance Concrete Mixture. Journal of Computing in Civil Engineering, 2014, 28, .                               | 4.7 | 63        |
| 10 | Chaotic coyote algorithm applied to truss optimization problems. Computers and Structures, 2021, 242, 106353.  | 4.4 | 63        |
| 11 | Prediction of permanent deformation in asphalt pavements using a novel symbiotic organisms searchâ€‘least squares support vector regression. Neural Computing and Applications, 2019, 31, 6261-6273.     | 5.6 | 45        |
| 12 | A novel fuzzy adaptive teachingâ€‘learning-based optimization (FATLBO) for solving structural optimization problems. Engineering With Computers, 2017, 33, 55-69.  | 6.1 | 44        |
| 13 | PREDICTING PRODUCTIVITY LOSS CAUSED BY CHANGE ORDERS USING THE EVOLUTIONARY FUZZY SUPPORT VECTOR MACHINE INFERENCE MODEL. Journal of Civil Engineering and Management, 2015, 21, 881-892.                | 3.5 | 37        |
| 14 | Optimizing the Prediction Accuracy of Friction Capacity of Driven Piles in Cohesive Soil Using a Novel Self-Tuning Least Squares Support Vector Machine. Advances in Civil Engineering, 2018, 2018, 1-9. | 0.7 | 36        |
| 15 | Differential Big Bang - Big Crunch algorithm for construction-engineering design optimization. Automation in Construction, 2018, 85, 290-304.  | 9.8 | 35        |
| 16 | Optimization model for construction project resource leveling using a novel modified symbiotic organisms search. Asian Journal of Civil Engineering, 2018, 19, 625-638.                                  | 1.6 | 33        |
| 17 | Combining machine learning models via adaptive ensemble weighting for prediction of shear capacity of reinforced-concrete deep beams. Engineering With Computers, 2020, 36, 1135.                        | 6.1 | 31        |
| 18 | Optimizing mixture properties of biodiesel production using genetic algorithm-based evolutionary support vector machine. International Journal of Green Energy, 2016, 13, 1599-1607.                     | 3.8 | 23        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Fuzzy adaptive teachingâ€“learning-based optimization for global numerical optimization. Neural Computing and Applications, 2018, 29, 309-327.   | 5.6 | 22        |
| 20 | A self-tuning least squares support vector machine for estimating the pavement rutting behavior of asphalt mixtures. Soft Computing, 2019, 23, 7755-7768.  | 3.6 | 13        |
| 21 | Metaheuristic-Based Machine Learning System for Prediction of Compressive Strength based on Concrete Mixture Properties and Early-Age Strength Test Results. Civil Engineering Dimension, 2018, 20, 21-29. | 0.3 | 13        |
| 22 | Risk-based maintenance strategy for deteriorating bridges using a hybrid computational intelligence technique: a case study. Structure and Infrastructure Engineering, 2019, 15, 334-350.                  | 3.7 | 12        |
| 23 | A Novel Hybrid Metaheuristic Algorithm for Optimization of Construction Management Site Layout Planning. Algorithms, 2020, 13, 117.  | 2.1 | 8         |
| 24 | Modeling the Permanent Deformation Behavior of Asphalt Mixtures Using a Novel Hybrid Computational Intelligence. , 2016, , .   |     | 8         |
| 25 | Optimization of resource leveling problem under multiple objective criteria using a symbiotic organisms search. Civil Engineering Dimension, 2019, 21, 43-51.  | 0.3 | 7         |
| 26 | Prediction of Concrete Compressive Strength from Early Age Test Result Using an Advanced Metaheuristic-Based Machine Learning Technique. , 2017, , .   |     | 6         |
| 27 | A Comparative Study on Bio-Inspired Algorithms in Layout Optimization of Construction Site Facilities. Civil Engineering Dimension, 2018, 20, 102-110.   | 0.3 | 5         |
| 28 | Enhanced symbiotic organisms search (ESOS) for global numerical optimization. , 2017, , .  |     | 4         |
| 29 | Prediction of High-Performance Concrete Strength Using a Hybrid Artificial Intelligence Approach. MATEC Web of Conferences, 2018, 203, 06006.  | 0.2 | 4         |
| 30 | Symbiotic organisms search with the feasibility-based rules for constrained engineering design optimization. , 2017, , .   |     | 3         |
| 31 | Size, Topology, and Shape Optimization of Truss Structures using Symbiotic Organisms Search. , 2019, , .   |     | 1         |
| 32 | Construction Management, Construction Method and System, Optimization and Innovation in Structural Design. MATEC Web of Conferences, 2019, 258, 02001.   | 0.2 | 0         |
| 33 | Optimizing the prediction accuracy of load-settlement behavior of single pile using a self-learning data mining approach. MATEC Web of Conferences, 2019, 258, 02010.                                      | 0.2 | 0         |
| 34 | Modelaci3n matem3tica del efecto de la presi3n atmosf3rica sobre la densidad poblacional de los mosquitos (Diptera: Culicidae) en Villa Clara, Cuba. Revista Facultad De Medicina, 2020, 68, .             | 0.2 | 0         |
| 35 | Layout, Topology, and Size Optimization of Steel Frame Design Using Metaheuristic Algorithms: A Comparative Study. Civil Engineering Dimension, 2022, 24, 31-37.   | 0.3 | 0         |