# Felipe A C Viana

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3447259/publications.pdf

Version: 2024-02-01

| 55 | 2,266 | 361413 | 414414 |
|---|---|---|---|
| papers | citations | 20 h-index | 32 g-index |

| 55 | 55 | 55 | 1384 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A hybrid physics-informed neural network for main bearing fatigue prognosis under grease quality variation. Mechanical Systems and Signal Processing, 2022, 171, 108875. | 8.0 | 35 |
| 2 | Operational guide to stabilize, standardize and increase power plant efficiency. Applied Energy, 2022, 315, 118973. | 10.1 | 2 |
| 3 | Ensemble of hybrid neural networks to compensate for epistemic uncertainties: a case study in system prognosis. Soft Computing, 2022, 26, 6157-6173. | 3.6 | 4 |
| 4 | Early life failures and services of industrial asset fleets. Reliability Engineering and System Safety, 2021, 205, 107225. | 8.9 | 5 |
| 5 | Estimating model inadequacy in ordinary differential equations with physics-informed neural networks. Computers and Structures, 2021, 245, 106458. | 4.4 | 42 |
| 6 | A Multi-step Machine Learning Approach for Short Axis MR Images Segmentation. Lecture Notes in Computer Science, 2021, , 122-133. | 1.3 | 2 |
| 7 | Quadcopter Soft Vertical Landing Control with Hybrid Physics-informed Machine Learning. , 2021, , . | | 3 |
| 8 | A Nonstationary Uncertainty Model and Bayesian Calibration of Strain-Life Models. Journal of Verification, Validation and Uncertainty Quantification, 2021, 6, . | 0.4 | 0 |
| 9 | A Probabilistic Hybrid Model for Main Bearing Fatigue Considering Uncertainty in Grease Quality. , 2021, , . | | 0 |
| 10 | Hybrid physics-informed neural networks for main bearing fatigue prognosis with visual grease inspection. Computers in Industry, 2021, 125, 103386. | 9.9 | 43 |
| 11 | A Survey of Bayesian Calibration and Physics-informed Neural Networks in Scientific Modeling. Archives of Computational Methods in Engineering, 2021, 28, 3801-3830. | 10.2 | 27 |
| 12 | Adjusting a torsional vibration damper model with physics-informed neural networks. Mechanical Systems and Signal Processing, 2021, 154, 107552. | 8.0 | 20 |
| 13 | Usage-based Lifing of Lithium-Ion Battery with Hybrid Physics-Informed Neural Networks. , 2021, , . | | 2 |
| 14 | Surrogate modeling: tricks that endured the test of time and some recent developments. Structural and Multidisciplinary Optimization, 2021, 64, 2881-2908. | 3.5 | 24 |
| 15 | A survey of modeling for prognosis and health management of industrial equipment. Advanced Engineering Informatics, 2021, 50, 101404. | 8.0 | 31 |
| 16 | Hybrid physics-informed neural networks for lithium-ion battery modeling and prognosis. Journal of Power Sources, 2021, 513, 230526. | 7.8 | 61 |
| 17 | A tutorial on solving ordinary differential equations using Python and hybrid physics-informed neural network. Engineering Applications of Artificial Intelligence, 2020, 96, 103996. | 8.1 | 59 |
| 18 | Cumulative Damage Modeling with Recurrent Neural Networks. AIAA Journal, 2020, 58, 5459-5471. | 2.6 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Satellite Image Classification and Segmentation with Transfer Learning. , 2020, , . | | 6 |
| 20 | Estimating Parameters and Discrepancy of Computer Models with Graphs and Neural Networks. , 2020, , . | | 4 |
| 21 | Quadcopter Control Optimization through Machine Learning. , 2020, , . | | 5 |
| 22 | Physics-Informed Neural Networks for Bias Compensation in Corrosion-Fatigue. , 2020, , . | | 7 |
| 23 | Physics-Informed Neural Networks for Missing Physics Estimation in Cumulative Damage Models: A Case Study in Corrosion Fatigue. Journal of Computing and Information Science in Engineering, 2020, 20, . | 2.7 | 64 |
| 24 | Onshore wind turbine main bearing reliability and its implications in fleet management. , 2019, , . | | 5 |
| 25 | Wind Turbine Main Bearing Fatigue Life Estimation with Physics-informed Neural Networks. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2019, 11, . | 0.3 | 11 |
| 26 | Physics-Informed Neural Networks for Corrosion-Fatigue Prognosis. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2019, 11, . | 0.3 | 13 |
| 27 | Developing a Probabilistic Load Spectrum for Fatigue Modeling. , 2017, , . | | 2 |
| 28 | Information gain-based inspection scheduling for fatigued aircraft components. , 2017, , . | | 3 |
| 29 | A Tutorial on Latin Hypercube Design of Experiments. Quality and Reliability Engineering International, 2016, 32, 1975-1985. | 2.3 | 113 |
| 30 | Special Section on Multidisciplinary Design Optimization: Metamodeling in Multidisciplinary Design Optimization: How Far Have We Really Come?. AIAA Journal, 2014, 52, 670-690. | 2.6 | 314 |
| 31 | Power System Identification Through Simultaneous Model Selection and Bayesian Calibration. , 2014, , . | | 1 |
| 32 | Efficient global optimization algorithm assisted by multiple surrogate techniques. Journal of Global Optimization, 2013, 56, 669-689. | 1.8 | 212 |
| 33 | Lightweight design of vehicle parameters under crashworthiness using conservative surrogates. Computers in Industry, 2013, 64, 280-289. | 9.9 | 34 |
| 34 | Temperature-Based Optimization of Film Cooling in Gas Turbine Hot Gas Path Components. , 2013, , . | | 0 |
| 35 | Multimodal Particle Swarm Optimization: Enhancements and Applications. , 2012, , . | | 6 |
| 36 | Probability of Failure Uncertainty Quantification with Kriging. , 2012, , . | | 1 |

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|---|---|---|---|
| 37 | Sequential sampling for contour estimation with concurrent function evaluations. Structural and Multidisciplinary Optimization, 2012, 45, 615-618. | 3.5 | 16 |
| 38 | Enabling high-order integration of fatigue crack growth with surrogate modeling. International Journal of Fatigue, 2012, 43, 150-159. | 5.7 | 15 |
| 39 | Efficient Global Optimization with Experimental Data: Revisiting the Paper Helicopter Design. , 2011, , . | | 6 |
| 40 | An algorithm for fast optimal Latin hypercube design of experiments. International Journal for Numerical Methods in Engineering, 2010, 82, 135-156. | 2.8 | 237 |
| 41 | Using Cross Validation to Design Conservative Surrogates. AIAA Journal, 2010, 48, 2286-2298. | 2.6 | 40 |
| 42 | Surrogate modelling for characterising the performance of a dielectric barrier discharge plasma actuator. International Journal of Computational Fluid Dynamics, 2010, 24, 281-301. | 1.2 | 5 |
| 43 | Making the Most Out of Surrogate Models: Tricks of the Trade. , 2010, , . | | 43 |
| 44 | Design Optimization of a Bendable UAV Wing Under Uncertainty. , 2010, , . | | 0 |
| 45 | Control-Oriented Design Using H-infinity Synthesis and Multiple Surrogates. , 2010, , . | | 4 |
| 46 | Why Not Run the Efficient Global Optimization Algorithm with Multiple Surrogates?. , 2010, , . | | 31 |
| 47 | Cross Validation Can Estimate How Well Prediction Variance Correlates with Error. AIAA Journal, 2009, 47, 2266-2270. | 2.6 | 22 |
| 48 | Optimization of aircraft structural components by using nature-inspired algorithms and multi-fidelity approximations. Journal of Global Optimization, 2009, 45, 427-449. | 1.8 | 32 |
| 49 | Multiple surrogates: how cross-validation errors can help us to obtain the best predictor. Structural and Multidisciplinary Optimization, 2009, 39, 439-457. | 3.5 | 339 |
| 50 | Importing Uncertainty Estimates from One Surrogate to Another. , 2009, , . | | 10 |
| 51 | Tuning dynamic vibration absorbers by using ant colony optimization. Computers and Structures, 2008, 86, 1539-1549. | 4.4 | 48 |
| 52 | Design and Analysis of Computer Experiments in Multidisciplinary Design Optimization: A Review of How Far We Have Come - Or Not. , 2008, , . | | 191 |
| 53 | Identification of a Non-Linear Landing Gear Model Using Nature-Inspired Optimization. Shock and Vibration, 2008, 15, 257-272. | 0.6 | 3 |
| 54 | Identification of external forces in mechanical systems by using LifeCycle model and stress-stiffening effect. Mechanical Systems and Signal Processing, 2007, 21, 2900-2917. | 8.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Fleet Prognosis with Physics-informed Recurrent Neural Networks. , 0, , . | | 23 |