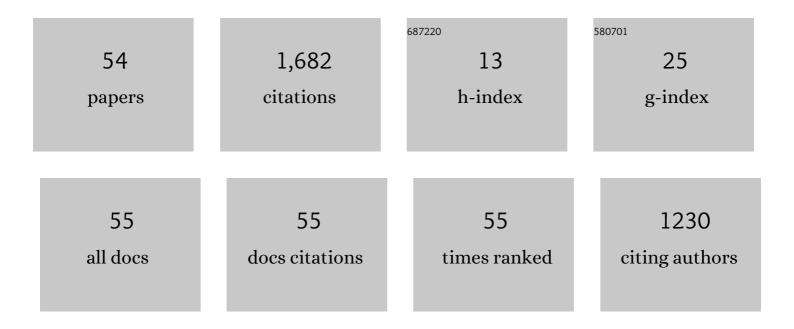
Dimitar P Filev

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1018347/publications.pdf Version: 2024-02-01



DIMITAD D FILEV

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Toward Interpretable-AI Policies Using Evolutionary Nonlinear Decision Trees for Discrete-Action Systems. IEEE Transactions on Cybernetics, 2024, 54, 50-62. | 6.2 | 3 |
| 2 | Robust Action Governor for Discrete-Time Piecewise Affine Systems With Additive Disturbances. , 2022, 6, 950-955. | | 1 |
| 3 | An Online Evolving Method For a <i>Safe</i> and <i>Fast</i> Automated Vehicle Control System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5723-5735. | 5.9 | 3 |
| 4 | Game-Theoretic Lane-Changing Decision Making and Payoff Learning for Autonomous Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 3609-3620. | 3.9 | 20 |
| 5 | A Three-Level Game-Theoretic Decision-Making Framework for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20298-20308. | 4.7 | 9 |
| 6 | Driving Behavior Evaluation for Future Mobility: Application of Online Transition Probability Estimation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 782-791. | 4.7 | 1 |
| 7 | Explaining Deep Learning Models Through Rule-Based Approximation and Visualization. IEEE Transactions on Fuzzy Systems, 2021, 29, 2399-2407. | 6.5 | 16 |
| 8 | Online Nonlinear Dynamic System Identification With Evolving Spatial–Temporal Filters: Case Study on Turbocharged Engine Modeling. IEEE Transactions on Control Systems Technology, 2021, 29, 1364-1371. | 3.2 | 6 |
| 9 | Action Governor for Discrete-Time Linear Systems With Non-Convex Constraints. , 2021, 5, 121-126. | | 5 |
| 10 | Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5-21. | 5.9 | 14 |
| 11 | Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 116-130. | 5.9 | 2 |
| 12 | Towards a systematic computational framework for modeling multi-agent decision-making at micro level for smart vehicles in a smart world. Robotics and Autonomous Systems, 2021, 144, 103859. | 3.0 | 7 |
| 13 | Autonomous Planning and Control for Intelligent Vehicles in Traffic. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2339-2349. | 4.7 | 40 |
| 14 | A Game Theoretic Model Predictive Controller With Aggressiveness Estimation for Mandatory Lane Change. IEEE Transactions on Intelligent Vehicles, 2020, 5, 75-89. | 9.4 | 36 |
| 15 | Autonomous Highway Driving using Deep Reinforcement Learning. , 2019, , . | | 68 |
| 16 | Towards a Modular Brain-Machine Interface for Intelligent Vehicle Systems Control – A CARLA Demonstration. , 2019, , . | | 0 |
| 17 | A Real-Time Fuzzy Learning Algorithm for Markov Chain and Its Application on Prediction of Vehicle Speed. , 2019, , . | | 2 |
| 18 | An Interacting Multiple-Model-Based Algorithm for Driver Behavior Characterization Using Handling Risk. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4308-4317. | 4.7 | 7 |

Dimitar P Filev

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Online Nonlinear System Identification with Evolving Spatial-Temporal Filters. , 2018, , . | | 3 |
| 20 | Addressing Mandatory Lane Change Problem with Game Theoretic Model Predictive Control and Fuzzy Markov Chain. , 2018, , . | | 12 |
| 21 | Highway Traffic Modeling and Decision Making for Autonomous Vehicle Using Reinforcement Learning. , 2018, , . | | 32 |
| 22 | A two-stage-training support vector machine approach to predicting unintentional vehicle lane departure. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2017, 21, 41-51. | 2.6 | 12 |
| 23 | Vehicle speed prediction using a cooperative method of fuzzy Markov model and auto-regressive model. , 2017, , . | | 32 |
| 24 | A mutual information based online evolving clustering approach and its applications. Evolving Systems, 2017, 8, 179-191. | 2.4 | 3 |
| 25 | Optimal State Estimation for Systems Driven by Jump–Diffusion Process With Application to Road Anomaly Detection. IEEE Transactions on Control Systems Technology, 2017, 25, 1634-1643. | 3.2 | 13 |
| 26 | A New Clustering Algorithm for Processing GPS-Based Road Anomaly Reports With a Mahalanobis Distance. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1980-1988. | 4.7 | 34 |
| 27 | Transition probability estimation and its application in evaluation of automated driving. , 2017, , . | | 1 |
| 28 | Driver behavior characterization using multiple dynamic models. , 2016, , . | | 2 |
| 29 | Trajectory optimization with memetic algorithms: Time-to-torque minimization of turbocharged engines. , 2016, , . | | 2 |
| 30 | Simultaneous road profile estimation and anomaly detection with an input observer and a jump diffusion process estimator. , 2016, , . | | 11 |
| 31 | Hâ^ž Filtering for Cloud-Aided Semi-active Suspension with Delayed Road Informationâ^—â^—This work was supported by Ford Motor Company-The University of Michigan Alliance IFAC-PapersOnLine, 2015, 48, 275-280. | 0.5 | 14 |
| 32 | Real-time Determination of Driver's Driving Behavior during Car Following. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 2015, 8, 371-378. | 0.3 | 12 |
| 33 | Cloud aided semi-active suspension control. , 2014, , . | | 29 |
| 34 | Cloud aided safety-based route planning. , 2014, , . | | 19 |
| 35 | Generalized Markov Models for Real-Time Modeling of Continuous Systems. IEEE Transactions on Fuzzy Systems, 2014, 22, 983-998. | 6.5 | 54 |
| 36 | The look-up table controllers and a particular class of Mamdani fuzzy controllers are equivalent - Implications to real-world applications. , 2013, , . | | 3 |

DIMITAR P FILEV

4

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Evolving Markov chain models of driving conditions using onboard learning. , 2013, , . | | 5 |
| 38 | Contextual on-board learning and prediction of vehicle destinations. , 2011, , . | | 11 |
| 39 | Real-time driver characterization during car following using stochastic evolving models. , 2011, , . | | 30 |
| 40 | Hybrid Intelligent System for Driver Workload Estimation for tailored vehicle-driver communication and interaction. , 2010, , . | | 6 |
| 41 | Markov chain modeling approaches for on board applications. , 2010, , . | | 24 |
| 42 | Applied intelligent systems: blending fuzzy logic with conventional control. International Journal of General Systems, 2010, 39, 395-414. | 1.2 | 15 |
| 43 | An Industrial Strength Novelty Detection Framework for Autonomous Equipment Monitoring and Diagnostics. IEEE Transactions on Industrial Informatics, 2010, 6, 767-779. | 7.2 | 60 |
| 44 | A generalized Markov Chain modeling approach for on board applications. , 2010, , . | | 12 |
| 45 | From vehicle stability control to intelligent personal minder: Real-time vehicle handling limit warning and driver style characterization. , 2009, , . | | 28 |
| 46 | Real-time driving behavior identification based on driver-in-the-loop vehicle dynamics and control. , 2009, , . | | 33 |
| 47 | Adaptive real-time advisory system for fuel economy improvement in a hybrid electric vehicle. , 2009, , . | | 21 |
| 48 | Guest Editorial Evolving Fuzzy Systems–-Preface to the Special Section. IEEE Transactions on Fuzzy Systems, 2008, 16, 1390-1392. | 6.5 | 25 |
| 49 | An Approach to Online Identification of Takagi-Sugeno Fuzzy Models. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 484-498. | 5.5 | 844 |
| 50 | Algorithms for Real-time Clustering and Generation of Rules from Data. , 0, , 354-369. | | 8 |
| 51 | Cruise Controller with Fuel Optimization Based on Adaptive Nonlinear Predictive Control. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 0, 9, 262-274. | 0.3 | 14 |
| 52 | On the Tradeoffs between Static and Dynamic Adaptive Optimization for an Automotive Application. SAE International Journal of Commercial Vehicles, 0, 10, 346-352. | 0.4 | 5 |
| 53 | Adaptive Nonlinear Model Predictive Cruise Controller: Trailer Tow Use Case. , 0, , . | | 6 |
| | | | |

54 On the Robustness of Adaptive Nonlinear Model Predictive Cruise Control. , 0, , .