# Manoel G Mendonca

List of Publications by Year
in descending order

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|---|---|---|---|
| 92<br>papers | 1,629<br>citations | 759190<br>12<br>h-index | 477281<br>29<br>g-index |
| 98<br>all docs | 98<br>docs citations | 98<br>times ranked | 959<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Evaluating a LSTM Neural Network and a Word2vec Model in the Classification of Self-admitted Technical Debts and Their Types in Code Comments. Lecture Notes in Business Information Processing, 2021, , 542-559. | 1.0 | 1 |
| 2 | Pitfalls and Solutions for Technical Debt Management in Agile Software Projects. IEEE Software, 2021, 38, 42-49. | 1.8 | 5 |
| 3 | Industrial and OSS developersâ€™ profiles: a family of experiments to evaluate a pioneering neuro-linguistic method for preferred representational systems automatic detection. Journal of the Brazilian Computer Society, 2021, 27, . | 1.3 | 1 |
| 4 | How do Technical Debt Payment Practices Relate to the Effects of the Presence of Debt Items in Software Projects?. , 2021, , . | | 4 |
| 5 | On the Relationship Between Technical Debt Management and Process Models. IEEE Software, 2021, 38, 56-64. | 1.8 | 7 |
| 6 | Organizing a Set of Empirical Findings on the Causes and Effects of Technical Debt through a Globally Distributed Family of Surveys. , 2021, , . | | 0 |
| 7 | On the Influence of UML Class Diagrams Refactoring on Code Debt: A Family of Replicated Empirical Studies. , 2020, , . | | 2 |
| 8 | The practitionersâ€™ point of view on the concept of technical debt and its causes and consequences: a design for a global family of industrial surveys and its first results from Brazil. Empirical Software Engineering, 2020, 25, 3216-3287. | 3.9 | 44 |
| 9 | Identifying self-admitted technical debt through code comment analysis with a contextualized vocabulary. Information and Software Technology, 2020, 121, 106270. | 4.4 | 15 |
| 10 | Actions and impediments for technical debt prevention. , 2020, , . | | 13 |
| 11 | Surveying Software Practitioners on Technical Debt Payment Practices and Reasons for not Paying off Debt Items. , 2020, , . | | 19 |
| 12 | Relationships between design problem agglomerations and concerns having types and domains of software as transverse dimensions. Journal of the Brazilian Computer Society, 2020, 26, . | 1.3 | 0 |
| 13 | Using Stack Overflow to Assess Technical Debt Identification on Software Projects. , 2020, , . | | 10 |
| 14 | Using Surveys to Build-up Empirical Evidence on Test-Related Technical Debt. , 2020, , . | | 1 |
| 15 | Supporting Analysis of Technical Debt Causes and Effects with Cross-Company Probabilistic Cause-Effect Diagrams. , 2019, , . | | 27 |
| 16 | Identifying Technical Debt through a Code Comment Mining Tool. , 2019, , . | | 2 |
| 17 | VisminerTD: a tool for automatic identification and interactive monitoring of the evolution of technical debt items. Journal of the Brazilian Computer Society, 2019, 25, . | 1.3 | 4 |
| 18 | Familiarity, Causes and Reactions of Software Practitioners to the Presence of Technical Debt: A Replicated Study in the Chilean Software Industry. , 2019, , . | | 14 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | A Study on Identification of Documentation and Requirement Technical Debt through Code Comment Analysis. , 2018, , . | | 3 |
| 20 | The most common causes and effects of technical debt. , 2018, , . | | 37 |
| 21 | Investigating the Relationship between Code Smell Agglomerations and Architectural Concerns. , 2018, , . | | 3 |
| 22 | A tertiary study on technical debt: Types, management strategies, research trends, and base information for practitioners. Information and Software Technology, 2018, 102, 117-145. | 4.4 | 125 |
| 23 | A systematic review on the code smell effect. Journal of Systems and Software, 2018, 144, 450-477. | 4.5 | 49 |
| 24 | An Ontological Model for Fire Emergency Situations. IEICE Transactions on Information and Systems, 2018, E101.D, 108-115. | 0.7 | 13 |
| 25 | Investigating the Effects of Agile Practices and Processes on Technical Debt - The Viewpoint of the Brazilian Software Industry. , 2018, , . | | 3 |
| 26 | Experimentally assessing the combination of multiple visualization strategies for software evolution analysis. Journal of Systems and Software, 2017, 128, 56-71. | 4.5 | 3 |
| 27 | Investigating the Identification of Technical Debt Through Code Comment Analysis. Lecture Notes in Business Information Processing, 2017, , 284-309. | 1.0 | 10 |
| 28 | A Strategy Based on Multiple Decision Criteria to Support Technical Debt Management. , 2017, , . | | 6 |
| 29 | On the Design of a Contextual Emergency State Builder with Multiple Data Sources. , 2017, , . | | 0 |
| 30 | Supporting Decision Making during Emergencies through Information Visualization of Crowdsourcing Emergency Data. , 2017, , . | | 1 |
| 31 | Impacts of agile requirements documentation debt on software projects. , 2016, , . | | 13 |
| 32 | A systematic mapping study on mining software repositories. , 2016, , . | | 22 |
| 33 | Identification and management of technical debt: A systematic mapping study. Information and Software Technology, 2016, 70, 100-121. | 4.4 | 200 |
| 34 | Information visualization for emergency management: A systematic mapping study. Expert Systems With Applications, 2016, 45, 424-437. | 7.6 | 31 |
| 35 | A Method to Support the Adoption of Reuse Technology in Large Software Organizations. Lecture Notes in Computer Science, 2016, , 73-88. | 1.3 | 1 |
| 36 | Investigating the Use of a Contextualized Vocabulary in the Identification of Technical Debt: A Controlled Experiment. , 2016, , . | | 4 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | EmergencyFire. , 2015, , . | | 7 |
| 38 | Visualization mechanisms for crowdsourcing information in emergency coordination. , 2015, , . | | 3 |
| 39 | Exploring decision drivers on god class detection in three controlled experiments. , 2015, , . | | 4 |
| 40 | Investigating the Link between User Stories and Documentation Debt on Software Projects. , 2015, , . | | 15 |
| 41 | Analyzing Distributions of Emails and Commits from OSS Contributors through Mining Software Repositories - An Exploratory Study. , 2015, , . | | 1 |
| 42 | VisMinerTD - An Open Source Tool to Support the Monitoring of the Technical Debt Evolution using Software Visualization. , 2015, , . | | 6 |
| 43 | Using EVOWAVE to Analyze Software Evolution. , 2015, , . | | 0 |
| 44 | The Role of Organizational Culture in Software Development Practices: A Cross-Case Analysis of Four Software Companies. , 2014, , . | | 4 |
| 45 | The problem of conceptualization in god class detection: agreement, strategies and decision drivers. Journal of Software Engineering Research and Development, 2014, 2, . | 1.0 | 6 |
| 46 | Triangulating Experiments in an Industrial Setting to Evaluate Preferred Representational Systems of Software Developers. , 2014, , . | | 2 |
| 47 | SourceMiner: Towards an Extensible Multi-perspective Software Visualization Environment. Lecture Notes in Business Information Processing, 2014, , 242-263. | 1.0 | 6 |
| 48 | Software evolution visualization: A systematic mapping study. Information and Software Technology, 2013, 55, 1860-1883. | 4.4 | 69 |
| 49 | An exploratory study to investigate the impact of conceptualization in god class detection. , 2013, , . | | 12 |
| 50 | Applying theory of reasoned action in the context of software development practices. , 2013, , . | | 7 |
| 51 | SourceMiner Evolution: A Tool for Supporting Feature Evolution Comprehension. , 2013, , . | | 5 |
| 52 | Recommendations to the Adoption of New Software Practices: A Case Study of Team Intention and Behavior in Three Software Companies. , 2013, , . | | 5 |
| 53 | SourceMiner - A Multi-perspective Software Visualization Environment. , 2013, , . | | 1 |
| 54 | Challenges of applying ethnography to study software practices. , 2012, , . | | 20 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 55 | Awareness and Comprehension in Software/Systems Engineering Practice and Education: Trends and Research Directions. , 2012, , . | | 2 |
| 56 | On the proactive and interactive visualization for feature evolution comprehension: An industrial investigation. , 2012, , . | | 6 |
| 57 | Understanding Structural Complexity Evolution: A Quantitative Analysis. , 2012, , . | | 1 |
| 58 | Enterprise Information Systems. Lecture Notes in Business Information Processing, 2012, , . | 1.0 | 9 |
| 59 | On the Use of Software Visualization to Analyze Software Evolution: An Interactive Differential Approach. Lecture Notes in Business Information Processing, 2012, , 241-255. | 1.0 | 7 |
| 60 | Free and Open Source Software Development and Research: Opportunities for Software Engineering. , 2011, , . | | 8 |
| 61 | Analyzing the Impact of Beliefs in Software Project Practices. , 2011, , . | | 24 |
| 62 | An interactive differential and temporal approach to visually analyze software evolution. , 2011, , . | | 6 |
| 63 | Guest editorial: Special issue on Databases and Software Engineering. Information Sciences, 2011, 181, 2597-2599. | 6.9 | 2 |
| 64 | Supporting evidence-based Software Engineering with collaborative information retrieval. , 2010, , . | | 5 |
| 65 | Identifying Code Smells with Multiple Concern Views. , 2010, , . | | 41 |
| 66 | OSS developers context-specific Preferred Representational systems: A initial Neurolinguistic text analysis of the Apache mailing list. , 2010, , . | | 5 |
| 67 | An experimental platform to characterize software comprehension activities supported by visualization. , 2009, , . | | 5 |
| 68 | Editorial: Selected papers from SBES '07. IET Software, 2009, 3, 67. | 2.1 | 0 |
| 69 | Continuous process improvement at a large software organization. Software Process Improvement and Practice, 2009, 14, 65-83. | 1.1 | 2 |
| 70 | Proposing a visual approach to support the characterization of software comprehension activities. , 2009, , . | | 3 |
| 71 | CRISTA: A tool to support code comprehension based on visualization and reading technique. , 2009, , . | | 3 |
| 72 | Mining Software Change History in an Industrial Environment. , 2009, , . | | 1 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 73 | Data Warehousing in an Industrial Software Development Environment. , 2009, , . | | 5 |
| 74 | Em Busca de Agilidade na Análise de Impacto: O Artefato FIR. IEEE Latin America Transactions, 2008, 6, 275-281. | 1.6 | 2 |
| 75 | Combining software visualization paradigms to support software comprehension activities. , 2008, , . | | 5 |
| 76 | Evaluating the usefulness of software visualization in supporting software comprehension activities. , 2008, , . | | 4 |
| 77 | A Framework for Software Engineering Experimental Replications. , 2008, , . | | 26 |
| 78 | Extracting Information from Experimental Software Engineering Papers. Chilean Computer Science Society (SCCC), Proceedings of the International Conference of the, 2007, , . | 0.0 | 2 |
| 79 | Using Context Distance Measurement to Analyze Results across Studies. First International Symposium on Empirical Software Engineering and Measurement (ESEM 2007), 2007, , . | 0.0 | 5 |
| 80 | Using Software Dependencies and Churn Metrics to Predict Field Failures: An Empirical Case Study. , 2007, , . | | 120 |
| 81 | Extracting Information from Experimental Software Engineering Papers. , 2007, , . | | 7 |
| 82 | Characterizing Software Architecture Changes: An Initial Study. , 2007, , . | | 5 |
| 83 | A Visual Text Mining approach for Systematic Reviews. , 2007, , . | | 103 |
| 84 | Perspective-Based Reading: A Replicated Experiment Focused on Individual Reviewer Effectiveness. Empirical Software Engineering, 2006, 11, 119-142. | 3.9 | 52 |
| 85 | Using observational pilot studies to test and improve lab packages. , 2006, , . | | 2 |
| 86 | Simulating families of studies to build confidence in defect hypotheses. Information and Software Technology, 2005, 47, 1019-1032. | 4.4 | 7 |
| 87 | Knowledge-Sharing Issues in Experimental Software Engineering. Empirical Software Engineering, 2004, 9, 111-137. | 3.9 | 93 |
| 88 | User interface evaluation and empirically-based evolution of a prototype experience management tool. IEEE Transactions on Software Engineering, 2003, 29, 838-850. | 5.6 | 13 |
| 89 | An experience management system for a software engineering research organization. , 2001, , . | | 26 |
| 90 | Validation of an approach for improving existing measurement frameworks. IEEE Transactions on Software Engineering, 2000, 26, 484-499. | 5.6 | 54 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 91 | An approach to improving existing measurement frameworks. IBM Systems Journal, 1998, 37, 484-501. | 3.0 | 17 |
| 92 | Replicating software engineering experiments: addressing the tacit knowledge problem. , 0, , . | | 69 |