

Bran Selic

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,103
citations

623734
14
h-index

434195
31
g-index

52
all docs

52
docs citations

52
times ranked

1419
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Specifying dynamic software system architectures. Software and Systems Modeling, 2021, 20, 595-605. | 2.7 | 4 |
| 2 | Fixing Classification: A Viewpoint-Based Approach. Lecture Notes in Computer Science, 2021, , 346-356. | 1.3 | 1 |
| 3 | Towards Facilitating the Exploration of Informal Concepts in Formal Modeling Tools. , 2021, , . | | 2 |
| 4 | Controlling the Controllers: What Software People Can Learn From Control Theory. IEEE Software, 2020, 37, 99-103. | 1.8 | 1 |
| 5 | The Forgotten Interfaces: A Critique of Component-based Models of Computing.. Journal of Object Technology, 2020, 19, 3:1. | 0.9 | 1 |
| 6 | Modeling of Real-Time Software Systems. , 2020, , 1-74. | | 0 |
| 7 | On teaching descriptive and prescriptive modeling. , 2020, , . | | 2 |
| 8 | Execution of UML models: a systematic review of research and practice. Software and Systems Modeling, 2019, 18, 2313-2360. | 2.7 | 58 |
| 9 | Design Languages: A Necessary New Generation of Computer Languages. Lecture Notes in Computer Science, 2018, , 279-294. | 1.3 | 1 |
| 10 | From (Imperfect) Object Diagrams to (Imperfect) Class Diagrams. , 2018, , . | | 7 |
| 11 | Specifying uncertainty in use case models. Journal of Systems and Software, 2018, 144, 573-603. | 4.5 | 27 |
| 12 | Understanding Uncertainty in Cyber-Physical Systems: A Conceptual Model. Lecture Notes in Computer Science, 2016, , 247-264. | 1.3 | 83 |
| 13 | Exploring Situation Theory Using InfonLab. , 2015, , . | | 1 |
| 14 | Cyber-physical system product line engineering. , 2015, , . | | 23 |
| 15 | The Iceberg Effect: On Technology Transfer from Research to Practice. , 2015, , . | | 5 |
| 16 | Cost-oriented proactive fault tolerance approach to high performance computing (HPC) in the cloud. International Journal of Parallel, Emergent and Distributed Systems, 2014, 29, 363-378. | 1.0 | 9 |
| 17 | Modeling Cyber-Physical Systems. , 2014, , 165-179. | | 14 |
| 18 | A survey of fault tolerance mechanisms and checkpoint/restart implementations for high performance computing systems. Journal of Supercomputing, 2013, 65, 1302-1326. | 3.6 | 198 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Energy Efficient Fault Tolerance for High Performance Computing (HPC) in the Cloud. , 2013, , . | | 15 |
| 20 | SimPL: A product-line modeling methodology for families of integrated control systems. Information and Software Technology, 2013, 55, 607-629. | 4.4 | 37 |
| 21 | What will it take? A view on adoption of model-based methods in practice. Software and Systems Modeling, 2012, 11, 513-526. | 2.7 | 116 |
| 22 | A Proactive Fault Tolerance Approach to High Performance Computing (HPC) in the Cloud. , 2012, , . | | 23 |
| 23 | A Fault Tolerance Framework for High Performance Computing in Cloud. , 2012, , . | | 38 |
| 24 | Guest editorial to the special issue on MODELS 2009. Software and Systems Modeling, 2012, 11, 325-326. | 2.7 | 0 |
| 25 | Making Abstraction Concrete. , 2011, , . | | 0 |
| 26 | Evaluation of process level redundant checkpointing/restart for HPC systems. , 2011, , . | | 0 |
| 27 | The Theory and Practice of Modeling Language Design for Model-Based Software Engineering – A Personal Perspective. Lecture Notes in Computer Science, 2011, , 290-321. | 1.3 | 13 |
| 28 | Extending SysML with AADL Concepts for Comprehensive System Architecture Modeling. Lecture Notes in Computer Science, 2011, , 236-252. | 1.3 | 20 |
| 29 | 6 Modeling Languages for Real-Time and Embedded Systems. Lecture Notes in Computer Science, 2010, , 129-154. | 1.3 | 8 |
| 30 | Agile Documentation, Anyone?. IEEE Software, 2009, 26, 11-12. | 1.8 | 49 |
| 31 | New Methods and Tools for Developing Real-Time Software. , 2009, , . | | 1 |
| 32 | Challenges in Combining SysML and MARTE for Model-Based Design of Embedded Systems. Lecture Notes in Computer Science, 2009, , 98-113. | 1.3 | 60 |
| 33 | Personal reflections on automation, programming culture, and model-based software engineering. Automated Software Engineering, 2008, 15, 379-391. | 2.9 | 34 |
| 34 | A Constrained Executable Model of Dynamic System Reconfiguration. , 2007, , . | | 1 |
| 35 | From Model-Driven Development to Model-Driven Engineering. , 2007, , . | | 22 |
| 36 | A Systematic Approach to Domain-Specific Language Design Using UML. , 2007, , . | | 148 |

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|----|---|-----|-----------|
| 37 | Special issue on model transformation. Science of Computer Programming, 2007, 68, 111-113. | 1.9 | 1 |
| 38 | Domain analysis of dynamic system reconfiguration. Software and Systems Modeling, 2007, 6, 355-380. | 2.7 | 5 |
| 39 | A Domain Model for Dynamic System Reconfiguration. Lecture Notes in Computer Science, 2005, , 553-567. | 1.3 | 9 |
| 40 | The pragmatics of model-driven development. IEEE Software, 2003, 20, 19-25. | 1.8 | 827 |
| 41 | Automated performance modeling of software generated by a design environment. Performance Evaluation, 2001, 45, 107-123. | 1.2 | 36 |
| 42 | Physical Programming: Beyond Mere Logic. Lecture Notes in Computer Science, 2001, , 1-1. | 1.3 | 1 |
| 43 | A generic framework for modeling resources with UML. Computer, 2000, 33, 64-69. | 1.1 | 76 |
| 44 | Turning clockwise. Communications of the ACM, 1999, 42, 46-54. | 4.5 | 61 |
| 45 | Timing Constraints and Object-Oriented Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 39-44. | 0.4 | 2 |
| 46 | SDL as UML: Why and What Panel. Lecture Notes in Computer Science, 1999, , 446-456. | 1.3 | 1 |
| 47 | A wideband approach to integrating performance prediction into a software design environment. , 1998, , . | | 29 |
| 48 | A Quality of Service Framework for Object-Oriented Architectures. International Journal of Software Engineering and Knowledge Engineering, 1998, 08, 315-331. | 0.8 | 2 |
| 49 | An Efficient Object-Oriented Variation of the Statecharts Formalism for Distributed Real-Time Systems. , 1993, , 335-344. | | 22 |