

# Slim Kallel

## List of Publications by Year in descending order

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59  
papers

453  
citations

1039406

9  
h-index

996533

15  
g-index

62  
all docs

62  
docs citations

62  
times ranked

288  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The temporal perspective in business process modeling: a survey and research challenges. Service Oriented Computing and Applications, 2015, 9, 75-85.   | 1.3 | 47        |
| 2  | NovidChain: Blockchain-based privacy-preserving platform for COVID-19 test/vaccine certificates. Software - Practice and Experience, 2022, 52, 841-867. | 2.5 | 47        |
| 3  | BPMN4CPS: A BPMN Extension for Modeling Cyber-Physical Systems. , 2016, , .   |     | 39        |
| 4  | Specifying and Monitoring Temporal Properties in Web Services Compositions. , 2009, , .   |     | 32        |
| 5  | Toward a Time-centric modeling of Business Processes in BPMN 2.0. , 2013, , .   |     | 32        |
| 6  | A comprehensive survey on modeling of cyber-physical systems. Concurrency Computation Practice and Experience, 2020, 32, e4850.                         | 1.4 | 29        |
| 7  | Enhancing Formal Specification and Verification of Temporal Constraints in Business Processes. , 2014, , .  |     | 23        |
| 8  | Optimal Cost for Time-Aware Cloud Resource Allocation in Business Process. , 2017, , .  |     | 13        |
| 9  | An approach based on runtime models for developing dynamically adaptive systems. Future Generation Computer Systems, 2017, 68, 365-375.                 | 4.9 | 13        |
| 10 | Toward a correct and optimal time-aware cloud resource allocation to business processes. Future Generation Computer Systems, 2020, 112, 751-766.        | 4.9 | 13        |
| 11 | Formal Verification of Time-Aware Cloud Resource Allocation in Business Process. Lecture Notes in Computer Science, 2016, , 400-417.                    | 1.0 | 10        |
| 12 | Modelling and verifying time-aware processes for cyber-physical environments. IET Software, 2019, 13, 36-48.  | 1.5 | 10        |
| 13 | From Formal Access Control Policies to Runtime Enforcement Aspects. Lecture Notes in Computer Science, 2009, , 16-31.                                   | 1.0 | 10        |
| 14 | AO4AADL: Aspect oriented extension for AADL. Open Computer Science, 2013, 3, 43-68.   | 1.3 | 9         |
| 15 | Optimal business process deployment cost in cloud resources. Journal of Supercomputing, 2021, 77, 1579-1611.  | 2.4 | 8         |
| 16 | Toward an Aspect Oriented ADL for Embedded Systems. Lecture Notes in Computer Science, 2010, , 489-492.   | 1.0 | 7         |
| 17 | Combining Formal Methods and Aspects for Specifying and Enforcing Architectural Invariants. , 2007, , 211-230.  |     | 7         |
| 18 | Modeling and enforcing invariants of dynamic software architectures. Software and Systems Modeling, 2012, 11, 127-149.                                  | 2.2 | 6         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | An Engineering Process for Security Patterns Application in Component Based Models. , 2013, , .   |     | 6         |
| 20 | Toward a Verification of Time-Centric Business Process Models. , 2014, , .  |     | 6         |
| 21 | Managing Architectural Reconfiguration at Runtime. International Journal of Web Portals, 2013, 5, 55-72.  | 1.1 | 5         |
| 22 | Specification and automatic checking of architecture constraints on object oriented programs. Information and Software Technology, 2018, 101, 16-31.                              | 3.0 | 5         |
| 23 | A holistic approach for access control policies: from formal specification to aspect-based enforcement. International Journal of Information and Computer Security, 2009, 3, 337. | 0.2 | 4         |
| 24 | Modeling Secure Mobile Agent Systems. Lecture Notes in Computer Science, 2012, , 330-339.   | 1.0 | 4         |
| 25 | How blockchain helps to combat trust crisis in COVID-19 pandemic?. , 2020, , .  |     | 4         |
| 26 | A Model-based Approach for the Modeling and the Verification of Railway Signaling System. , 2019, , .   |     | 4         |
| 27 | An Approach for Security Patterns Application in Component Based Models. Lecture Notes in Computer Science, 2014, , 283-296.  | 1.0 | 4         |
| 28 | Aspect-based enforcement of formal delegation policies. , 2008, , .   |     | 3         |
| 29 | Verifying Runtime Architectural Reconfiguration of Dynamically Adaptive Systems. , 2013, , .  |     | 3         |
| 30 | An Aspect-Oriented Approach to Enforce Security Properties in Business Processes. Lecture Notes in Computer Science, 2013, , 344-355.   | 1.0 | 3         |
| 31 | Time-Aware Automatic Process View Generation. , 2013, , .   |     | 3         |
| 32 | Runtime Adaptation of Component Based Systems. Lecture Notes in Computer Science, 2013, , 284-288.  | 1.0 | 3         |
| 33 | On Enabling Time-Aware Consistency of Collaborative Cross-Organisational Business Processes. Lecture Notes in Computer Science, 2014, , 351-358.                                  | 1.0 | 3         |
| 34 | Time patterns for cyber-physical systems. , 2016, , .   |     | 3         |
| 35 | Modeling and verification of temporal properties in cyber-physical systems. , 2017, , .   |     | 3         |
| 36 | Formal Verification of Temporal Constraints and Allocated Cloud Resources in Business Processes. , 2018, , .  |     | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Optimizing the Performance of Timed-Constrained Business Processes in Cloud-Fog Environment. Communications in Computer and Information Science, 2019, , 78-90.        | 0.4 | 3         |
| 38 | Using Aspects for Enforcing Formal Architectural Invariants. Electronic Notes in Theoretical Computer Science, 2008, 215, 5-21.  | 0.9 | 2         |
| 39 | AROSA Track Report: Adaptive and Reconfigurable Service-Oriented and Component-Based Applications and Architectures. , 2012, , .                                       |     | 2         |
| 40 | Track Report of Adaptive and Reconfigurable Service-Oriented and Component-Based Applications and Architectures (AROSA 2014). , 2014, , .                              |     | 2         |
| 41 | Enabling Technologies: Infrastructure for Collaborative Enterprises. Computer Journal, 2015, 58, 355-355.  | 1.5 | 2         |
| 42 | Demonstrating BPMN4CPS: Modeling and verification of cyber-physical systems. , 2017, , .   |     | 2         |
| 43 | Software agents meet internet of things. Internet Technology Letters, 2018, 1, e17.  | 1.4 | 2         |
| 44 | Restriction-based fragmentation of business processes over the cloud. Concurrency Computation Practice and Experience, 2021, 33, 1-1.                                  | 1.4 | 2         |
| 45 | Model-Driven Simulation of Elastic OCCI Cloud Resources. Computer Journal, 2022, 65, 1144-1166.  | 1.5 | 2         |
| 46 | Business process specification, verification, and deployment in a mono-cloud, multi-edge context. Computer Science and Information Systems, 2020, 17, 293-313.         | 0.7 | 2         |
| 47 | Middleware for Dynamically Adaptive Systems. Lecture Notes in Computer Science, 2014, , 72-84.   | 1.0 | 1         |
| 48 | AROSA 2015 Track Report: Adaptive and Reconfigurable Service-Oriented and Component-Based Applications and Architectures. , 2015, , .                                  |     | 1         |
| 49 | Scheduling Business Process Activities for Time-Aware Cloud Resource Allocation. Lecture Notes in Computer Science, 2018, , 445-462.                                   | 1.0 | 1         |
| 50 | Formal Specification and Verification of Cloud Resource Allocation Using Timed Petri-Nets. Communications in Computer and Information Science, 2018, , 40-49.          | 0.4 | 1         |
| 51 | Verification of the Consistency of Time-Aware Cyber-Physical Processes. Lecture Notes in Computer Science, 2018, , 67-79.  | 1.0 | 1         |
| 52 | Towards the verification of cyber-physical processes based on time and physical properties. International Journal of Business and Systems Research, 2019, 13, 47.      | 0.2 | 1         |
| 53 | From generating process views over inter-organizational business processes to achieving their temporal consistency. Computing (Vienna/New York), 2021, 103, 1305-1331. | 3.2 | 1         |
| 54 | MDA-Based Approach for Implementing Secure Mobile Agent Systems. Lecture Notes in Computer Science, 2013, , 56-72.   | 1.0 | 0         |

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|----|---|-----|-----------|
| 55 | AROSA Track Report. , 2013, , .   |     | 0         |
| 56 | A Collaborative Process for Developing Secure Component Based Applications. , 2014, , .                               |     | 0         |
| 57 | Monitoring of Quality of Service in Dynamically Adaptive Systems. Lecture Notes in Computer Science, 2014, , 121-130. | 1.0 | 0         |
| 58 | Arosa Track Report. , 2016, , .   |     | 0         |
| 59 | AROSA 2017: Summary Report. , 2017, , .   |     | 0         |