| Tentative ID | Title | Relevance | Authors | Year | Journal or Conference name | Vol. | No. | N. Citations |
|---|---|---|---|---|---|---|---|---|
| T1 | Smart contracts: Security patterns in the ethereum ecosystem and solidity | | Wohrer M., Zdun U., | 2018 | 2018 IEEE 1st Inte | 2018-Janu | | 70 |
| T2 | A pattern collection for blockchain-based applications | | Xu X., Pautasso C., | 2018 | ACM International | Conferenc | | 21 |
| T3 | Applying ant colony algorithm to identify ecological security patterns in megacities | | Peng J., Zhao S., Do | 2019 | Environmental Mo | 117 | | 20 |
| T4 | Building ecological security patterns based on ecosystem services value reconstruction in an arid inland basin: A case study in Ganzhou District, NW China | | Wang Y., Pan J. | 2018 | Journal of Cleaner | 241 | | 16 |
| T5 | A Survey of Network Function Virtualization Security | X | Alwakeel A.M., Alnar | 2018 | Conference Proce | 2018-April | | 14 |
| T6 | Model driven design and evaluation of security level in orchestrated cloud services | X | Amato F., Mazzocca | 2018 | Journal of Network | 106 | | 14 |
| T7 | Incorporating ecological risk index in the multi-process MCRE model to optimize the ecological security pattern in a semi-arid area with intensive coal mining: A case study in northern China | | Li S., Xiao W., Zhao | 2020 | Journal of Cleaner | 247 | | 9 |
| T8 | Holistic security requirements analysis for socio-technical systems | X | Li T., Horkoff J., Myl | 2018 | Software and Syst | 17 | 4 | 9 |
| T9 | Construction of urban ecological security pattern and construction land development based on MCR Model [基于MCR模型的城镇生态安全格局构建和建设用地开发模式] | | Qiu S., Wang Y., Wa | 2018 | Nongye Gongcher | 34 | 17 | 9 |
| T10 | Optimization of urban land development spatial allocation based on ecology-economy comparative advantage perspective | | Tong H., Shi P., Bao | 2018 | Journal of Urban F | 144 | 2 | 9 |
| T11 | Applying security patterns for authorization of users in IoT based applications | X | Ali I., Asif M. | 2018 | 2018 International | 2018-Janu | | 8 |
| T12 | An Iterative Deep Neural Network for Hand-Vein Verification | | Qin H., El Yacoubi M | 2019 | IEEE Access | 7 | | 6 |
| T13 | Security patterns for automotive systems | X | Cheng B.H.C., Dohe | 2019 | Proceedings - 2019 ACM/IEE | | | 5 |
| T14 | Local Binary Patterns for Document Forgery Detection | | Cruz F., Sidere N., C | 2018 | Proceedings of the | 1 | | 5 |
| T15 | Quantitative Analysis of the Ecological Security Pattern for Regional Sustainable Development: Case Study of Chaohu Basin in Eastern China | | Li S., Xiao W., Zhao | 2019 | Journal of Urban F | 145 | 3 | 5 |
| T16 | Taxonomy and literature survey of security pattern research | X | Washizaki H., Xia T. | 2019 | 2018 IEEE Conference on App | | | 5 |
| T17 | Cloud security and privacy metamodel for security and privacy knowledge in cloud services | X | Xia T., Washizaki H. | 2018 | MODELSWARD 20 | 2018-Janu | | 5 |
| T18 | Land use optimization of plateau lake basin based on town-agriculture-ecological spatial coordination [城镇-农业-生态协调的高原湖泊流域土地利用优化] | | Zhao X., Li S., Tan K | 2019 | Nongye Gongcher | 35 | 8 | 5 |
| T19 | Security Requirements Elicitation from Airline Turnaround Processes | X | Matulevičius R., Nor | 2018 | Business and Info | 60 | 1 | 4 |
| T20 | Interdependencies, Conflicts and Trade-Offs Between Security and Usability: Why and How Should We Engineer Them? | X | Naqvi B., Seffah A. | 2019 | Lecture Notes in C | 11594 LNC | | 4 |
| T21 | An effective computational technique for taxonomic position of security vulnerability in software development | X | Srivastava A.K., Kun | 2018 | Journal of Comput | 25 | | 4 |
| T22 | Secure Development of Big Data Ecosystems | X | Moreno J., Fernande | 2019 | IEEE Access | 7 | | 3 |
| T23 | A security pattern for key-value NoSQL database authorization | | Moreno J., Fernande | 2018 | ACM International | Conferenc | | 3 |
| T24 | Towards a security reference architecture for big data | X | Moreno J., Serrano N | 2018 | CEUR Workshop F | ### | | 3 |
| T25 | Security Pattern Detection Using Ordered Matrix Matching | X | Alvi A.K., Zulkernine | 2017 | Proceedings - 2017 Internatio | | | 2 |
| T26 | What are security patterns? A formal model for security and design of software | X | Behrens A. | 2018 | ACM International | Conferenc | | 2 |
| T27 | Do me a favor - The role of social relations for information security in- And extra-role behavior | | Hartmann M., Jaege | 2018 | International Conference on I | | | 2 |
| T28 | Security patterns: A systematic mapping study | X | Jafari A.J., Rasoolza | 2020 | Journal of Comput | 56 | | 2 |
| T29 | A Methodology for Modeling and Analysis of Secure Systems Using Security Patterns and Mitigation Use Cases | X | Maher Z.A., Shah A. | 2018 | Proceedings of the 2018 7th | | | 2 |
| T30 | Combined automotive safety and security pattern engineering approach | X | Martin H., Ma Z., Sc | 2020 | Reliability Enginee | 198 | | 2 |
| T31 | Security pattern for cloud SaaS: From system and data security to privacy case study in AWS and azure | X | Rath A., Spasic B., B | 2019 | Computers | 8 | 2 | 2 |
| T32 | A catalogue associating security patterns and attack steps to design secure applications | X | Salva S., Regainia L | 2019 | Journal of Comput | 27 | 1 | 2 |
| T33 | A software product line approach for feature modeling and design of secure connectors | X | Shin M., Gomaa H., | 2019 | ICSOFT 2018 - Proceedings c | | | 2 |
| T34 | Security Pattern for Cloud SaaS: From system and data security to privacy | (same as T31) | Spasic B., Rath A.T. | 2018 | 2018 4th International Confer | | | 2 |
| T35 | Security paterns 2.0 towards security paterns based on security building blocks | X | Van Den Berghe A., | 2018 | Proceedings - International C | | | 2 |
| T36 | Implicit authentication method for smartphone users based on rank aggregation and random forest | | Abo El-Soud M.W., C | 2020 | Alexandria Engineering Journ | | | 1 |
| T37 | A misuse pattern for compromising Vms via virtual machine escape in NFV | | Alnaim A., Alwakeel | 2019 | ACM International | Conferenc | | 1 |
| T38 | Non-functional requirement patterns for agile software development | X | Amorndettawin M., S | 2019 | ACM International | Conferenc | | 1 |
| T39 | Security Patterns As Architectural Solution - Mitigating Cross-Site Scripting Attacks in Web Applications | X | Anand P., Ryoo J. | 2018 | Proceedings - 2017 Internatio | | | 1 |
| T40 | An Extensive Survey of Prominent Researches in Face Recognition under Different Conditions | | Gangonda S.S., Pata | 2018 | Proceedings - 2018 4th Interr | | | 1 |
| T41 | Nanotransfer Printing on Textile Substrate with Water-Soluble Polymer Nanotemplate | | Ko J., Zhao Z.-J., Hw | 2020 | ACS Nano | 14 | 2 | 1 |
| T42 | A model transformation methodology for security integration and code generation from sequence diagram of system's internal behavior | X | Lasbahani A., Chhib | 2018 | International Revie | 11 | 2 | 1 |
| T43 | Exploring security issues in telehealth systems | | Marquez G., Astudill | 2019 | Proceedings - 2019 IEEE/ACI | | | 1 |
| T44 | Security in collective adaptive systems: A roadmap | X | Pianini D., Casadei | 2019 | Proceedings - 2019 IEEE 4th | | | 1 |
| T45 | A systematic mapping of patterns and architectures for iot security | X | Rajmohan T., Nguye | 2020 | IoTBDS 2020 - Proceedings c | | | 1 |
| T46 | An approach for guiding developers in the choice of security solutions and in the generation of concrete test cases | X | Salva S., Regainia L | 2019 | Software Quality J | 27 | 2 | 1 |
| T47 | Ecological security evaluation and ecological regulation approach in Xilin Gol League [锡林郭勒盟生态安全评价及生态调控途径] | | Shi N., Xiao N., Wan | 2019 | Nongye Gongcher | 35 | 18 | 1 |
| T48 | FireBugs: Finding and repairing bugs with security patterns | | Singleton L., Zhao R | 2019 | Proceedings - 2019 IEEE/ACI | | | 1 |
| T49 | An Ontology for Security Patterns | X | Vale A.P., Fernande | 2019 | Proceedings - Inte | 2019-Nove | | 1 |
| T50 | Security patterns 2.0: Toward security patterns based on security building blocks | (same as T35) | Van Den Berghe A., | 2018 | Proceedings - 2018 ACM/IEE | | | 1 |
| T51 | Security patterns: Research direction, metamodel, application and verification | X | Washizaki H. | 2018 | Proceedings - WB | 2018-Janu | | 1 |
| T52 | 18th Russian Conference on Artificial Intelligence, RCAI 2020 | | N/A | 2020 | Lecture Notes in C | 12412 LNA | | 0 |
| T53 | 2019 International Conference on Security, Pattern Analysis, and Cybernetics, SPAC 2019 | | N/A | 2019 | 2019 International Conference | | | 0 |
| T54 | 2019 38th International Conference of the Chilean Computer Science Society, SCCC 2019 | | N/A | 2019 | Proceedings - Inte | 2019-Nove | | 0 |
| T55 | 2018 4th International Conference on Cloud Computing Technologies and Applications, Cloudtech 2018 | | N/A | 2019 | 2018 4th International Confer | | | 0 |
| T56 | 2018 IEEE Conference on Application, Information and Network Security, AINS 2018 | | N/A | 2019 | 2018 IEEE Conference on App | | | 0 |
| T57 | 2018 International Conference on Security, Pattern Analysis, and Cybernetics, SPAC 2018 | | N/A | 2018 | 2018 International Conference | | | 0 |
| T58 | Proceedings - 2018 ACM/IEEE 1st International Workshop on Security Awareness from Design to Deployment, SEAD 2018 | | N/A | 2018 | Proceedings - 2018 ACM/IEE | | | 0 |
| T59 | ACM International Conference Proceeding Series | | N/A | 2018 | ACM International | Conferenc | | 0 |
| T60 | Proceedings - 2017 International Conference on Software Security and Assurance, ICSSA 2017 | | N/A | 2018 | Proceedings - 2017 Internatio | | | 0 |
| T61 | Proceedings - International Conference on Software Engineering | | N/A | 2018 | Proceedings - International C | | | 0 |
| T62 | 2018 IEEE 1st International Workshop on Blockchain Oriented Software Engineering, IWBOSE 2018 - Proceedings | | N/A | 2018 | 2018 IEEE 1st Inte | 2018-Janu | | 0 |
| T63 | 2017 International Conference on Security, Pattern Analysis, and Cybernetics, SPAC 2017 | | N/A | 2018 | 2017 International | 2018-Janu | | 0 |
| T64 | Proceedings - WBIS 2017: 2017 International Workshop on Big Data and Information Security | | N/A | 2018 | Proceedings - WB | 2018-Janu | | 0 |
| T65 | 3rd International Conference on Information Systems Security and Privacy, ICISSP 2017 | | N/A | 2018 | Communications i | 867 | | 0 |
| T66 | A personalized on-the-fly approach for secure semantic web services composition | X | Abidi S., Fakhri M., E | 2018 | Proceedings of IEE | 2017-Octo | | 0 |
| T67 | A security pattern detection framework for building more secure software | X | Alvi A.K., Zulkernine | 2021 | Journal of System: | 171 | | 0 |
| T68 | Freehand sketch-based authenticated security system using levenshtein distance and coordinates-similarity | | Amarnadh S., Prasa | 2020 | International Journ | 9 | 3 | 0 |
| T69 | Architectural solutions to mitigate security vulnerabilities in software systems | X | Anand P., Ryoo J. | 2018 | ACM International | Conferenc | | 0 |
| T70 | Pattern based web security testing | X | Araújo P.J.M., Paiva | 2018 | MODELSWARD 20 | 2018-Janu | | 0 |
| T71 | Enhancing secure business process design with security process patterns | X | Argyropoulos N., Mo | 2020 | Software and Syst | 19 | 3 | 0 |
| T72 | Modeling and Analysis of Security in Design Phase of IoT Based Applications Using Security Patterns | X | Aruna E.R., Rama M | 2021 | Lecture Notes in E | 698 | | 0 |
| T73 | Elicitation and analysis of security requirements and patterns for IOT based health monitor | X | Aruna E.R., Reddy A | 2020 | Lecture Notes in E | 643 | | 0 |
| T74 | Towards obtaining UML class diagrams from secure business processes using security patterns | X | Barra M.Z., Rodrigue | 2018 | Journal of Univers | 24 | 10 | 0 |
| T75 | Format and usage model of security patterns in ontology-driven threat modelling | X | Brazhuk A., Olizarov | 2020 | Lecture Notes in C | 12412 LNA | | 0 |
| T76 | Towards supporting software assurance assessments by detecting security patterns | X | Bunke M., Sohr K. | 2020 | Software Quality J | 28 | 4 | 0 |
| T77 | Principle and method for ecological restoration zoning of territorial space based on the dominant function [基于主导功能的国土空间生态修复分区的原理与方法] | | Cai H., Chen Y., Zha | 2020 | Nongye Gongcher | 36 | 15 | 0 |
| T78 | A framework and roadmap for enhancing the application of privacy design patterns | X | Caiza J.C., Alamo J.N | 2020 | Proceedings of the ACM Sym | | | 0 |
| T79 | Regional eco-security: Concept, principles and pattern design | | Chen L., Sun R., Yan | 2018 | Challenges Towards Ecologic | | | 0 |

| ID | Title | | Author | Year | Source | | | |
|---|---|---|---|---|---|---|---|---|
| T80 | Cyber security patterns students behavior and their participation in loyalty programs | | Chmielarz W., Szum | 2018 | International Journ | 9 | 2 | 0 |
| T81 | Ontology-based modelling of extended web service secure conversation pattern | X | Dwivedi A.K. | 2019 | International Journ | 13 | 4 | 0 |
| T82 | Evaluating the degree of security of a system built using security patterns | X | Fernandez E.B., Yos | 2018 | ACM International Conferenc | | | 0 |
| T83 | An Efficient Finger Vein Image Enhancement and Pattern Extraction Using CLAHE and Repeated Line Tracking Algorithm | | Ganesan T., Rajendr | 2020 | Advances in Intelli | ### | | 0 |
| T84 | A Comprehensive Survey of Face Databases for Constrained and Unconstrained Environments | | Gangonda S.S., Pata | 2019 | Proceedings - 2018 IEEE Glo | | | 0 |
| T85 | Semantic integration of security knowledge sources | X | Ghiran A.-M., Buchn | 2018 | Proceedings - Inte | 2018-May | | 0 |
| T86 | Multi-way door unlocking using raspberry Pi | | Jalaja T., Adilakshm | 2020 | International Journ | 9 | 5 | 0 |
| T87 | Quality-centric security pattern mutations | X | Javan Jafari A., Raso | 2019 | Software Quality J | 27 | 4 | 0 |
| T88 | Forgetfulness as a feature – Imitation of human weaknesses for realizing privacy requirements [Vergesslichkeit als Feature - Kann die Imitation menschlicher Schwächen helfen Privacy Anforderungen besser umzusetzen] | | Justinger J., Heuer T | 2019 | ACM International Conferenc | | | 0 |
| T89 | Case study on data security improvement in SAAS in Azure and AWS platforms | X | Kalaskar K.D., Yada | 2019 | International Journ | 8 | 11 | 0 |
| T90 | Landscape ecology restoration strategies for the coal-electricity base in steppe of China [草原煤电基地景观生态恢复技术策略] | | Lei S., Zhang Z., Che | 2019 | Meitan Xuebao/Jo | 44 | 12 | 0 |
| T91 | A problem-oriented approach to critical system design and diagnosis support | X | Leildé V., Ribaud V., | 2018 | Communications i | 929 | | 0 |
| T92 | Constructing the Urban Ecological Security Pattern of Anqing City by Circuit Theory [基于Circuit理论的城市生态安全格局研究-以安庆市为例] | | Li J.-L., Xu J.-G., Ch | 2020 | Resources and En | 29 | 8 | 0 |
| T93 | An Efficient Hybrid Exact String Matching Algorithm to Minimize the Number of Attempts and Character Comparisons | | Mahmud P., Rana M | 2019 | 2018 21st International Confe | | | 0 |
| T94 | A pattern–driven adaptation in IoT orchestrations to guarantee SPDI properties | X | Manos P., Konstanti | 2020 | Lecture Notes in C | 12512 LNC | | 0 |
| T95 | Safe design real-time embedded systems with security patterns | X | Mansour A.B., Naija | 2019 | ENASE 2019 - Proceedings o | | | 0 |
| T96 | Collecting and Classifying Security and Privacy Design Patterns for Connected Vehicles: SECREDAS Approach | X | Marko N., Vasenev A | 2020 | Lecture Notes in C | 12235 LNC | | 0 |
| T97 | Security patterns for webDesign: A hierarchical structure approach | | Mirnig A.G., Meschts | 2019 | Conference on Human Factor | | | 0 |
| T98 | Neuralizer: A security pattern for the right to be forgotten in Big Data ecosystems [Neuralizador: Patrón de Seguridad para el Derecho al Olvido en Ecosistemas Big Data] | | Moreno J., Fernande | 2019 | Actas de las 24th Jornadas de | | | 0 |
| T99 | BlockBD: A security pattern to incorporate blockchain in big data ecosystems | | Moreno J., Fernande | 2019 | ACM International Conferenc | | | 0 |
| T100 | Application of security reference architecture to Big Data ecosystems in an industrial scenario | X | Moreno J., Gómez J. | 2020 | Software - Practic | 50 | 8 | 0 |
| T101 | Characterizing the cost of introducing secure programming patterns and practices in ethereum | X | N'Da A.A.K., Matalo | 2020 | Advances in Intelli | 1160 AISC | | 0 |
| T102 | Incorporating the human facet of security in developing systems and services | X | Naqvi B., Clarke N., | 2020 | Information and Computer Se | | | 0 |
| T103 | Framework for examination of software quality characteristics in conflict: A security and usability exemplar | X | Naqvi B., Seffah A., | 2020 | Cogent Engineerin | 7 | 1 | 0 |
| T104 | Formal verification of security pattern composition: Application to SCADA | X | Obeid F., Dhaussy P | 2019 | Computing and Inf | 38 | 5 | 0 |
| T105 | Verification of the instantiation and integration of security patterns | X | Peng T., Wang S., G | 2020 | Journal of Web En | 19 | ### | 0 |
| T106 | SPRO: Security process framework | X | Persch H.M., Fontou | 2019 | Proceedings of the | 2019-July | | 0 |
| T107 | Authentication system for web examination using keystrokes dynamics | | Prajapati Y.N., Pant | 2019 | International Journ | 8 | 1 | 0 |
| T108 | A User-centric Security Solution for Internet of Things and Edge Convergence | | Puthal D., Yang L.T. | 2020 | ACM Transactions | 4 | 3 | 0 |
| T109 | Research Landscape of Patterns and Architectures for IoT Security: A Systematic Review | X | Rajmohan T., Nguye | 2020 | Proceedings - 46th Euromicro | | | 0 |
| T110 | Security improved duobinary optical communication scheme through bio-inspired chaos masking scheme | | Ravindran S., Janaki | 2020 | IET Optoelectronic | 14 | 5 | 0 |
| T111 | A security pattern classification based on data integration | X | Salva S., Regainia L. | 2018 | Communications i | 867 | | 0 |
| T112 | Using data integration to help design more secure applications | X | Salva S., Regainia L. | 2018 | Lecture Notes in C | 10694 LNC | | 0 |
| T113 | Evaluation and a reconcile analysis of Lda and Ssvm category | | Seethamani P., Vino | 2020 | International Journ | 9 | 3 | 0 |
| T114 | Delimitation of ecological land in Su-Xi-Chang metropolitan area based on minimum cumulative resistance model | | Shen S., Chen L. | 2018 | IPPTA: Quarterly J | 30 | 5 | 0 |
| T115 | A Software Product Line Approach to Design Secure Connectors in Component-Based Software Architectures | X | Shin M., Gomaa H., | 2019 | Communications i | ### | | 0 |
| T116 | Contract-based design patterns: A design by contract approach to specify security patterns | X | Silva C., Guérin S., N | 2020 | ACM International Conferenc | | | 0 |
| T117 | Automated tool support for repairing security bugs in android mobile applications | | Singleton L. | 2019 | Proceedings - 2019 IEEE/AC | | | 0 |
| T118 | Privacy preserving using spider security pattern generation based on ORB web construction | | Sravan Kumar V., Ag | 2019 | International Journ | 8 | 3 | 0 |
| T119 | A misuse pattern for DDoS in the IoT | | Syed M.H., Fernand | 2018 | ACM International Conferenc | | | 0 |
| T120 | Construction of county-level ecological security pattern based on ecological protection red line and network in China [基于生态保护红线和生态网络的县域生态安全格局构建] | | Tang F., Wang L., Zh | 2020 | Nongye Gongchen | 36 | 9 | 0 |
| T121 | Recommendations for Enhancing Security in Microservice Environment Altered in an Intelligent Way | X | Tenev T., Tsvetanov | 2020 | 2020 28th International Confe | | | 0 |
| T122 | A quantitative approach for the likelihood of exploits of system vulnerabilities | X | Verma S., Gruber T., | 2018 | Lecture Notes in C | 11094 LNC | | 0 |
| T123 | Refining the evaluation of the degree of security of a system built using security patterns | X | Villagrán-Velasco O. | 2020 | ACM International Conferenc | | | 0 |
| T124 | Construction of landscape ecological network based on landscape ecological risk assessment in a large-scale opencast coal mine area | | Xu W., Wang J., Zha | 2021 | Journal of Cleaner | 286 | | 0 |
| T125 | A review paper: Security requirement patterns for a secure software development | X | Yahya S., Kamalrudi | 2019 | Proceedings - 2019 1st Intern | | | 0 |
| T126 | A study on the spatial and temporal evolution of landscape ecosystem structure based on national geoinformation survey | | Zhan Q., Zhan M., Y | 2020 | Journal of Geomat | 45 | 4 | 0 |
| T127 | A Study on the Construction of Ecological Security Pattern of Towns Rich in Mountain and Water Resources: Taking Huangpi District of Wuhan City as An Example [山水资源型城镇的生态安全格局构建研究-以武汉市黄陂区为例] | | Zhang C., Fang S.-M | 2020 | Resources and En | 29 | 8 | 0 |
| T128 | Research on the Construction of Zhaoqing City Infrastructure under the Guidance of Ecological Security | | Zhang H. | 2018 | IOP Conference Se | 439 | 3 | 0 |
| T129 | Construction of ecological security patterns based on ecological ptotection redlines in Jiangxi Province, China | | Zou C., Ye X., Yang | 2018 | International Geos | 2018-July | | 0 |