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RESEARCH

Interests Build Systems · Release Management · Semantic Web · Software Security
Areas Information Systems · Computer Networks and Communications · Information Systems and Management · Computer Science Applications

RESEARCH SUMMARY

16	417	10	10	2.31	33%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 16 publications listed below, 2016–2023. Field-weighted impact is the mean over the 3 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 3 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 8

1. Armstrong Foundjem, Ellis E. Eghan, Bram Adams (2023). A Grounded Theory of Cross-Community SECOS: Feedback Diversity Versus Synchronization. *IEEE Transactions on Software Engineering*. <https://doi.org/10.1109/tse.2023.3313875>
2. Aaditya Bhatia, Ellis E. Eghan, Manel Grichi, William G. Cavanagh, Zhen Ming Jiang, Bram Adams (2023). Towards a change taxonomy for machine learning pipelines. *Empirical Software Engineering*. <https://doi.org/10.1007/s10664-022-10282-8>
3. Ellis E. Eghan, Juergen Rilling (2022). A Semantic Web-Enabled Approach for Dependency Management. *International Journal of Software Engineering and Knowledge Engineering*. <https://doi.org/10.1142/s0218194022500498>
4. Ellis E Eghan (2021). Why do builds fail?—A conceptual replication study. *Journal of Systems and Software*. <https://www.sciencedirect.com/science/article/pii/S0164121221000364>
5. Ellis E Eghan (2020). On the impact of interlanguage dependencies in multilanguage systems empirical case study on java native interface applications (JNI). *IEEE Transactions on Reliability*. <https://ieeexplore.ieee.org/abstract/document/9246706/>
6. Ellis E Eghan (2020). The missing link—A semantic web based approach for integrating screencasts with security advisories. *Information and Software Technology*. <https://www.sciencedirect.com/science/article/pii/S0950584919302046>
7. Ellis E Eghan (2019). API trustworthiness: an ontological approach for software library adoption. *Software Quality Journal*. <https://doi.org/10.1007/s11219-018-9428-4>
8. Ellis E Eghan (2016). Tracing known security vulnerabilities in software repositories—A Semantic Web enabled modeling approach. *Science of Computer Programming*. <https://www.sciencedirect.com/science/article/pii/S0167642316000253>

Conference papers 7

1. Ellis E Eghan (2021). An Open Dataset for Onboarding new Contributors–Empirical Study of OpenStack Ecosystem. *2021 IEEE/ACM 43rd International Conference on Software Engineering: Companion Proceedings (ICSE-Companion)*. <https://ieeexplore.ieee.org/abstract/document/9402285/>
2. Ellis E Eghan (2021). On the Co-evolution of ML Pipelines and Source Code–Empirical Study of DVC Projects. *2021 IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER)*. <https://ieeexplore.ieee.org/abstract/document/9425888/>
3. Ellis E Eghan (2021). Onboarding vs. Diversity, Productivity, and Quality–Empirical Study of the OpenStack Ecosystem. *2021 IEEE/ACM 43rd International Conference on Software Engineering (ICSE)*. <https://ieeexplore.ieee.org/abstract/document/9402037/>
4. Ellis E Eghan (2020). On the Impact of Inter-language Dependencies in Multi-language Systems. *QRS*. <https://ieeexplore.ieee.org/abstract/document/9282751/>
5. Ellis E Eghan (2020). On the Impact of Multi-language Development in Machine Learning Frameworks. *2020 IEEE International Conference on Software Maintenance and Evolution (ICSME)*. <https://ieeexplore.ieee.org/abstract/document/9240642/>
6. Ellis E Eghan (2017). Recovering semantic traceability links between APIs and security vulnerabilities: An ontological modeling approach. *2017 IEEE International Conference on Software Testing, Verification and Validation (ICST)*. <https://ieeexplore.ieee.org/abstract/document/7927965/>
7. Ellis E Eghan (2016). SV-AF—A Security Vulnerability Analysis Framework. *2016 IEEE 27th International Symposium on Software Reliability Engineering (ISSRE)*. <https://ieeexplore.ieee.org/abstract/document/7774522/>

Theses 1

1. Ellis Emmanuel Eghan (2019). Dependency Management 2.0–A Semantic Web Enabled Approach. *Concordia University*. <https://spectrum.library.concordia.ca/id/eprint/985896/>