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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/