Prof. Letha ETZKORN
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Selected Scholarly Contributions SCOPUS

Beard, M.D., Kraft, N.A., Etzkorn, L.H.
Code clones in Rhino: A case study

Biggers, L.R., Bocovich, C., Capshaw, R., Eddy, B.P., Etzkorn, L.H., Kraft, N.A.
Configuring latent Dirichlet allocation based feature location

Baker, S.E., Beard, M.D., Etzkorn, L.H.
A case study of software quality and reuse

Biggers, L.R., Eddy, B.P., Kraft, N.A., Etzkorn, L.H.
Toward a metrics suite for source code lexicons
(2011) IEEE International Conference on Software Maintenance, ICSM, art. no. 6080816, pp. 492-495.

Beard, M., Kraft, N., Etzkorn, L., Lukins, S.
Measuring the accuracy of information retrieval based bug localization techniques

Mathur, R., Keen, K.J., Etzkorn, L.H.
Towards a measure of object oriented runtime cohesion based on number of Instance variable accesses

Michal, D.S., Etzkorn, L.
A comparison of player/stage/gazebo and microsoft robotics developer studio

Corley, C.S., Kraft, N.A., Etzkorn, L.H., Lukins, S.K.
Recovering traceability links between source code and fixed bugs via patch analysis

Schrimpsher, D., Wu, Z., Orme, A.M., Etzkorn, L.
Dynamic ontology version control

Mathur, R., Keen, K.J., Etzkorn, L.H.
Towards an object-oriented complexity metric at the runtime boundary based on decision points in code

Lukins, S.K., Kraft, N.A., Etzkorn, L.H.
Bug localization using latent Dirichlet allocation
Schrimpsher, D., Etzkorn, L.  
An empirical quality model for Web service ontologies to support mobile devices  

Keen, K.J., Mathur, R., Etzkorn, L.  
Towards a measure of software intelligence employing a runtime complexity metric  

Schrimpsher, D., Etzkorn, L.  
Sub-graphing web service ontologies to support resource constraints of mobile devices  

Virani, S., Etzkorn, L., Gholston, S., Farrington, P., Utley, D., Fortune, J.  
Investigation of domain effects on software  

Orme, A.M., Yao, H., Etzkorn, L.H.  
Complexity metrics for ontology based information  

Etzkorn, L., Menzies, T.  
Special issue on information retrieval for program comprehension  

Cox, G.W., Hughes Jr., W.E., Etzkorn, L.H., Weisskopf, M.E.  
Predicting computer science Ph.D. completion: A case study  

Stein, C., Etzkorn, L., Gholston, S., Farrington, P., Utley, D., Cox, G., Fortune, J.  
Semantic metrics: Metrics based on semantic aspects of software  

Lukins, S.K., Kraft, N.A., Etzkorn, L.H.  
Source code retrieval for bug localization using latent Dirichlet allocation  

Vinz, B.L., Etzkorn, L.H.  
Comments as a sublanguage: A study of comment grammar and purpose  

Virani, S.S., Messimer, S., Roden, P., Etzkorn, L.  
Software quality management tool for engineering managers  

Studying team shared mental models

Keen, K.J., Etzkorn, L.H.
Mobile agents on mobile robotic platforms: A survey

Vinz, B.L., Etzkorn, L.H.
Combined code understanding and comment understanding

Vinz, B.L., Etzkorn, L.H.
Improving program comprehension by combining code understanding with comment understanding

The effect of uncontrolled concurrency on model checking

Dabney, R.W., Etzkorn, L., Cox, G.W.
A fault-tolerant approach to test control utilizing dual-redundant processors

Olague, H.M., Etzkorn, L.H., Messimer, S.L., Delugach, H.S.
An empirical validation of object-oriented class complexity metrics and their ability to predict error-prone classes in highly iterative, or agile, software: A case study

Semantic software metrics computed from natural language design specifications

Funkhouser, O., Etzkorn, L.H., Hughes Jr., W.E.
A lightweight approach to software validation by comparing UML use cases with internal program documentation selected via call graphs

Haining, Y., Etzkorn, L.H., Virani, S.
Automated classification and retrieval of reusable software components

Roden, P.L., Virani, S., Etzkorn, L.H., Messimer, S.
An empirical study of the relationship of stability metrics and the QMOOD quality models over software developed using highly iterative or agile software processes
A knowledge modeling approach to evaluating student essays in engineering courses  

Olague, H.M., Etzkorn, L.H., Gholston, S., Quattlebaum, S.  
Empirical validation of three software metrics suites to predict fault-proneness of object-oriented classes developed using highly iterative or agile software development processes  

Eichelkraut, C., Etzkorn, L.  
Describing agent based real-time distributed systems using design patterns  

Orme, A.M., Yao, H., Etzkorn, L.H.  
Indicating ontology data quality, stability, and completeness throughout ontology evolution  

Vinz, B.L., Etzkorn, L.H.  
A synergistic approach to program comprehension  

Eichelkraut, C., Etzkorn, L.  
An approach for developing real-time distributed systems using an agent architecture description language  

Yao, H., Etzkorn, L.  
Automated conversion between different knowledge representation formats  

Olague, H.M., Etzkorn, L.H., Li, W., Cox, G.  
Assessing design instability in iterative (agile) object-oriented projects  

Cox, G.W., Etzkorn, L.H., Hughes, W.E.  
Cohesion metric for object-oriented systems based on semantic closeness from disambiguity  

Orme, A.M., Yao, H., Etzkorn, L.H.  
Coupling metrics for ontology-based systems  

Olague, H.M., Etzkorn, L.H.  
A simple entropy-based software complexity metric  

Olague, H.M., Etzkorn, L.H.  
An information theory word-based metric to evaluate software maintainability and reusability

Shatnawi, R.A., Etzkorn, L.H., Hughes Jr., W.E.
Comparing object-oriented languages using design patterns

Stein, C., Etzkorn, L., Utley, D., Farrington, P., Cox, G., Fortune, J., Gholston, S.
Computing software metrics from design documents

Yao, H., Etzkorn, L.
Towards a semantic-based approach for software reusable component classification and retrieval

Raley, M.A., Etzkorn, L.H.
Case study: Lessons learned during a nationwide computer system upgrade

Cox, G.W., Etzkorn, L.H.
The effectiveness of battery-conserving protocols in wireless LANs

Naji, H.R., Wells, B.E., Etzkorn, L.
Creating an adaptive embedded system by applying multi-agent techniques to reconfigurable hardware

A comparison of cohesion metrics for object-oriented systems

Naji, H.R., Etzkorn, L., Wells, B.E.
Applying multi agent techniques to reconfigurable systems

Cox, G.W., Etzkorn, L.H., Pajnjigara, Z.
On Battery Conservation Strategies for Wireless Protocols

Cox, G.W., Etzkorn, L.H.
Power-Related Performance of 802.11 Protocols

Etzkorn, L.H., Gholston, S., Hughes Jr., W.E.
A semantic entropy metric

Etzkorn, L.H., Davis, C.G., Bowen, L.L.
The language of comments in computer software: A sublanguage of English
Etzkorn, L.H, Hughes Jr., W.E, Davis, C.G
Automated reusability quality analysis of OO legacy software

Etzkorn, L., Delugach, H.
Towards a semantic metrics suite for object-oriented design

Li, W., Etzkorn, L., Davis, C., Talburt, J.
Empirical study of object-oriented system evolution

Etzkorn, L., Bansiya, J., Davis, C.
Design and code complexity metrics for OO classes

Bansiya, Jagdish, Davis, Carl, Etzkorn, Letha
Entropy-based complexity measure for object-oriented designs

Bansiya, J., Etzkorn, L., Davis, C., Li, W.
A class cohesion metric for object-oriented designs

Etzkorn, L., Davis, C., Li, W.
A practical look at the lack of cohesion in methods metric

Etzkorn, L.H., Davis, C.G.
Automatically identifying reusable OO legacy code

Etzkorn, L.H., Davis, C.G.
Automated object-oriented reusable component identification

Knowledge-based approach to object-oriented legacy code reuse

Etzkorn, L.H., Davis, C.G.
Documentation-related approach to object-oriented program understanding