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Data Science, AI and SE, MSR, Empirical Software Engineering

About

I am currently a research assistant professor at Zhejiang University in China. To help developers and testers improve their productivity, my current research focuses on mining and analyzing rich data in software repositories to uncover interesting and actionable information. I have employed and customized structured and unstructured data analytics techniques –including data mining, information retrieval, natural language processing, search-based algorithms, and program analysis –to transform passive software engineering data into automated tools and new insights.

Education

2017.09–2020.6   **Ph.D., Software Engineering**, *Department of Computer Science and Technology, Nanjing University, Nanjing, China*.

2014.09–2017.06   **Master, Software Engineering**, *Department of Computer Science and Technology, Nanjing University, Nanjing, China*.

2010.09–2014.06   **Bachelor, Software Engineering**, *School of Computer Science and Technology, Nantong University, Nantong, China*.

Research Experience

2020.07–   **Assistant Professor**, *School of Software Technology*, Zhejiang University, Hangzhou, China.

2018.10–2019.10   **Visiting scholar**, Monash University, Melbourne, Australia.
supported by China Scholarship Council (CSC.)

Publications

Journal:

2020-TSE   **Chao Ni**, Xin Xia, David Lo, Xiang Chen, and Qing Gu. "Revisiting Supervised and Unsupervised Methods for Effort-Aware Cross-Project Defect Prediction". *Transactions on Software Engineering, Accept,* **(CCF-A)**

2019-JSS   **Chao Ni**, Xiang Chen, Fangfang Wu, Yuxiang Shen, Qing Gu. "An Empirical Study on Pareto Based Multi-objective Feature Selection for Software Defect Prediction". *Journal of Systems and Software (JSS)*, 152: 215-238, **(CCF-B)**

2019-JSEP   **Chao Ni**, Xiang Chen, Xin Xia, Qing Gu, Yingquan Zhao. "Multi-task Defect Prediction". *Journal of Software: Evolution and Process (JSEP)*, Accepted. **(CCF-B)**

2019-JSEP   Xiang Chen, Yanzhou Mu, Yubin Qu, **Chao Ni**, Meng Liu, Tong He, Shangqing Liu. "Do Different Cross-project Defect Prediction Methods Identify the Same Defective Modules". *Journal of Software: Evolution and Process (JSEP)*, Accepted. **(CCF-B)**

2019-IST   Xiang Chen, Dun Zhang, Yingquan Zhao, Zhanqi Cui, **Chao Ni**. "Software Defect Number Prediction: Unsupervised vs Supervised Methods". *Information and Software Technology (IST)*, 106: 161-181, **(CCF-B)**

2017-JCST   **Ni Chao**, Liu WangShu, Chen Xiang, Gu Qing. "A Cluster Based Feature Selection Method for Cross-Project Software Defect Prediction". *Journal of Computer Science and Technology (JCST)*,32(6): 1090-1107, **(CCF-B)**

Conference:

2020-SEKE   Qiguo Huang,Xiang Chen, Zhengliang Li, **Chao Ni** and Qing Gu. "Revisiting Dependence Cluster Metrics based Defect Prediction". *International Conference on Software Engineering and Knowledge Engineering (SEKE)*,Accept, **(CCF-C)**

2019-SEKE   Qiguo Huang, **Chao Ni***, Xiang Chen, Qing Gu, Kaibo Cao. "Multi-project Regression based Approach for Software Defect Number Prediction". *International Conference on Software Engineering and Knowledge Engineering (SEKE)*,(Corresponding Author),Accept, **(CCF-C)**

2017-COMPSAC   **Ni Chao**, Liu Wangshu, Gu Qing, Chen Xiang, Chen DaoXu. "FeSCH: A Feature Selection Method using Clusters of Hybrid-data for Cross-Project Defect Prediction". *Computer Software and Applications Conference (COMPSAC)*, pp. 1: 51-56. **(CCF-C)**

Talks

2019-ICSME   Cleveland, America – *Multi-task Defect Prediction.*

2017-COMPSAC   Torino, Italy – *FeSCH: A Feature Selection Method using Clusters of Hybrid-data for Cross-Project Defect Prediction.*