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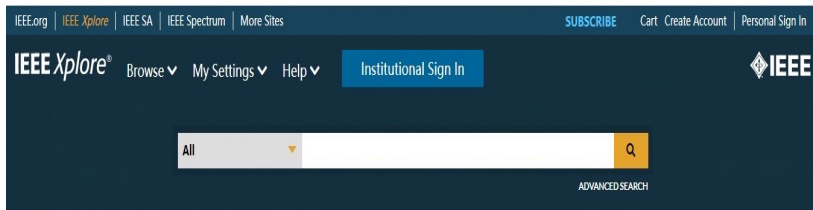
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Generating Concise Patches for Newly Released Programming Assignments

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Leping Li; Hui Liu; Kejun Li; Yanjie Jiang; Rui Sun   **All Authors**

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Research Direction

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I am a Professor in the School of Computer Science and Technology at the Beijing Institute of Technology . I was formerly a graduate student at the Software Engineering Institute ,Peking University . I defended my PhD thesis in June 2008.

My research interests include deep learning based software engineering, in particular: deep learning based program generation; software refactoring; automatic program repair; software quality; machine iearning based code complete; automatic construction of software engineering datasets. My work is funded in part by the National Natural Science Foundation of China, and the National Key Research and Development Program of China.

I am a recipient of the RE'2021 best research paper award (2021), IET Software Premium Award (2018), New Century Excellent Talents in University (2013), and Beijing Higher Education Young Elite Teacher (2013). I am also a distinguished member of China Computer Federation (中国计算机学会杰出会员)

I am always looking for self-motivated students to work with me . Contact me by eMail if you are interested in **deep learning** ,**software engineering** ,**natural language processing** , or **data mining** .

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Doctral Students

Bo Liu (2021-): Deep learning-based software development.

Taiming Wang (2020-): Deep learning-based software development.

Hanlin Tang (2019-, co-advised by Prof. Hong Mei): Deep learning based software development. [SCIENCE CHINA2020]

Yamin Hu (2019-): Deep Learning based software development. [ICSE2021]

Lin Jiang (2017-, co-advised by Prof. Hong Mei): Deep learning based software development. [ASE2019] [TSE2020][ICSE 2022]

Yanjie Jiang (2018-): Software quality and refactoring [TSE2018] [FSE 2019] [ISSTA 2020] [TSE2020] [ICSE2021] [ICSE2021-2][FSE 2021] [TSE2022]

Master Students

Former Students

Research ([Full publication list available at DBLP](#))

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- **Deep Learning-based Software Engineering** （中国计算机学会推荐A类顶级国际期刊/会议）

  [1]. **Hui Liu***, Mingzhu Shen, Jiaqi Zhu, Nan Niu, Ge Li and Lu Zhang, "[Deep Learning Based Program Generation from Requirements Text: Are We There Yet?](#)" in IEEE Transactions on Software Engineering (IEEE TSE), Online 2020 [[Tools and Dataset](#)]

  [2]. Lin Jiang, **Hui Liu***, He Jiang, Lu Zhang and Hong Mei, "[Heuristic and Neural Network based Prediction of Project-Specific API Member Access,](#)" in IEEE Transactions on Software

10:47

  Engineering (ASE), Montpellier, France, 2018, pp. 385-396 [[Tools and Dataset](#)]

- **Software Evolution and Software Quality** （中国计算机学会推荐A类顶级国际期刊/会议）

  [1]. Li Leping, **Hui Liu***, Li Kejun, Jiang Yanjie and Sun, Rui. "[Generating Concise Patches for Newly Released Programming Assignments,](#)" in IEEE Transactions on Software Engineering, Online 2022, doi: 10.1109/TSE.2022.3153522. [[Tools and Dataset](#)]

  [2]. Yinchen Tian, Yuxia Zhang*, Klaas-Jan Stol, Lin Jiang, **Hui Liu***. What makes a Good Commit Message. 44th International Conference on Software Engineering (ICSE 2022), to appear.

  [3]. Yuxia Zhang, **Hui Liu**, Xin Tan, Minghui Zhou, Zhi Jin, and Jiaxin Zhu. 2022. Turnover of Companies in OpenStack: Prevalence and Rationale. ACM Transactions on Software Engineering and Methodology (TOSEM), to appear

  [4]. Zedong Peng, Prachi Rathod, Nan Niu, Tanmay Bhowmik, **Hui Liu**, Lin Shi, and Zhi Jin. [Environment-Driven Abstraction Identification for Requirements-Based Testing](#). IEEE 29th International Requirements Engineering

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