

Yuandou Wang

No.174, Shazheng Street, Shapingba District, Chongqing, China

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HomePage: <https://judiths1618.github.io/>

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Education Background

2020.10-, Multiscale Networked Systems, University of Amsterdam, the Netherlands

Ph.D. candidate, majoring in Distributed data processing, funded by the CLARIFY project grant agreement No. 838949, H2020 -MSCA - ITN - 2019

An early-stage researcher funded by the H2020-MSCA-ITN-2019

Supervised by Dr. Paola Grosso and Dr. Zhiming Zhao

2016.9–2019.6, Chongqing University (Double first-class, project 985 and project 211 members), China

Master's Degree of Engineering, majoring in Computer Science and Technology, College of Computer Science

Graduate Recommendation Project, GPA: 83.7/100

Supervised by Prof. Yunni Xia

2012.9–2016.6, Chongqing University (Double first-class, project 985 and project 211 members), China

Bachelor's Degree of Engineering, majoring in Computer Science and Technology, College of Computer Science

GPA: 3.28/4.0, Rank: 22/164

Publications

Conference Paper

- **Yuandou Wang**, Jiajia Jiang, Yunni Xia, Quanwang Wu, Xin Luo, Qinsheng Zhu. A Multi-stage Dynamic Game-Theoretic Approach for Multi-Workflow Scheduling on Heterogeneous Virtual Machines from Multiple Infrastructure-as-a-Service Clouds in 15th *International Conference on Services Computing (SCC 2018)* pp137-152, 2018. (CCF-C, EI-indexed)
- Li Zhu, **Yuandou Wang**, Wanbo Zheng, Lei Wu, Ye Yuan, Peng Chen, Yunni Xia. Percentile Performance Analysis of Infrastructure-as-a-Service clouds with task retrials in *IEEE 14th International Conference on Networking, Sensing and Control (IEEE ICNSC)* Page(s) 270-274, 2017. (EI-indexed)
- Weiling Li, Lei Wu, Yunni Xia, **Yuandou Wang**, Kunyin Guo, Xin Luo, Mingwei Lin, Wanbo Zheng. On Stochastic Performance and Cost-aware Optimal Capacity Planning of Unreliable Infrastructure-as-a-Service Cloud in *International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP)* pp 644-657, 2016. (CCF-C)
- Xiaoning Sun, Jiangchuan Chen, Yunni Xia, Qiang He, **Yuandou Wang**, Xin Luo, Rongqing Zhang, Wuhong Han, Quanwang Wu. A Fluctuation-Aware Approach for Predictive Web Service Composition in *IEEE International Conference on Services Computing (IEEE SCC 2018)* pp121-128, 2018. (CCF-C, best student paper award)

Journal Paper

- **Yuandou Wang**, Hang Liu, Wanbo Zheng, Yunni Xia, Yawen Li, Peng Chen, Kunyin Guo, Hong Xie. Multi-Objective Workflow Scheduling with Deep-Q-Network-based Multi-Agent Reinforcement Learning in *IEEE Access* Volume 7, Issue 1, pp 39974-39982, 2019, DOI: 10.1109/ACCESS.2019.2902846. (Impact Factor: 4.098)
- Lei Wu, **Yuandou Wang**. Scheduling Multi-Workflows Over Heterogeneous Virtual Machines With a Multi-Stage Dynamic Game-Theoretic Approach in *International Journal of Web Services Research (IJWSR)* Volume 15, Issue 4, pp 82-96, 2018. (IF: 0.667)

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- Wanbo Zheng, **Yuandou Wang**, Yunni Xia, Quanwang Wu, Lei Wu, Kunyin Guo, Weiling Li, Xin Luo, Qingsheng Zhu. On Dynamic Performance Estimation of Fault-prone Infrastructure-as-a-Service Clouds in *International Journal of Distributed Sensor Networks* (IJDSN) Volume 13, Issue 7, 2017. (IF: 1.787)
 - Weiling Li, Yongbo Wang, **Yuandou Wang**, Yunni Xia, Xin Luo, Quanwang Wu. An Energy-Aware and Under-SLA-Constraints VM Consolidation Strategy Based on the Optimal Matching Method in *International Journal of Web Services Research* (IJWSR) Volume 14, Issue 4, pp 75-89, 2017. (IF: 0.667)
 - Kunyin Guo, Ke Yu, Dan Yang, Lei Wu, **Yuandou Wang**. Performance Estimation of Fault-prone Infrastructure-as-a-Service Cloud Computing Systems and their Cost-aware Optimal Performance Determination in *Mobile Networks and Applications* (MONET) Volume 22, Issue4, pp 662-673, 2017. (IF: 2.497)
 - Qinglan Peng, Yunni Xia, Mengchu Zhou, Xin Luo, Shu Wang, **Yuandou Wang**, Chunrong Wu, Shanchen Pang and Mingwei Lin. Reliability-aware and Deadline-constrained Mobile Service Composition over Opportunistic Networks in *IEEE Transactions on Automation Science and Engineering* (T-ASE) 1-14. doi:10.1109/tase.2020.2993218 . (Factor: 5.224)

Professional Experience

- Implemented TSA prediction based-on CloudSim** Mar 2017 - Jun 2017
 - Stimulated VM Scheduling strategies via TSA prediction based on CloudSim with Java
- Implemented OneScheduler based-on OpenStack** Mar 2016 - Jun 2016
 - Simulated parallel requests and dynamically collected online data from OpenStack with Python
 - Used the ARIMA model to analyze history datasets for the sake of a better performance
- Parallel Systems Programming** Sep 2015 - Nov 2015
 - Wrote parallel program using pthreads to efficiently detect the same elements in large data set
 - Wrote MPI program for sorting algorithms to simulate collective communication in parallel system (<https://github.com/Judiths/collective-codeC>)
- Courseware training cloud service platform based on PaaS** Aug 2015 - Sep 2015
 - Configured and deployed preliminary environments along with Hadoop, MySQL
- Employment recommendation system** Apr 2015 - May 2015
 - Deployed the preliminary environment such as Solr with formatted JSON data on server
 - Implemented the web crawler that grabbed the current data from <http://www.zhaopin.com/> with Java solrJ
- Secondhand book trading system** Mar 2015 - Apr 2015
 - Co-designed the system and corresponded relational database with UML models and E-R models
 - Designed JSON interface functions between Android and server

Awards & Honors

- Class A Graduate Scholarship in College of Computer Science Oct 2018
- Outstanding student cadres in Chongqing University Jan 2018
- Class A Graduate Scholarship in College of Computer Science Oct 2016
- 3rd Prize in Chongqing University Smart-Campus App Design Competition May 2015
- Honorable Mention with Interdisciplinary Contest in Modeling Feb 2015

Skills

Programming Python/Latex(Skillful), Excel/Visio/draw.io (Skillful),

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Languages

Linux/Unix (Basic)

English (IELTS score: overall 6.5, Listening 6.5, Reading 7.0, Writing 7.0, Speaking 6.0),
Chinese (native), Chongqing dialect