Yuandou Wang

No.174, Shazheng Street, Shapingba District, Chongqing, China
(+86)133-6813-1478
HomePage: https://judiths1618.github.io/homepage/
judiths11@outlook.com

Position Applied for

PhD

PROFILE

With great research enthusiasm and ambitions. Master's degree of Engineering in Computer Science and Technology with a concentration in Cloud Computing Workflow Scheduling, QoS Engineering, Game Theory and Reinforcement Learning. Master's degree of Engineering and Bachelor's degree of Engineering in Computer Science and Technology. Flexible programming skills. Work well with team cooperation.

Education Background

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)

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• 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)

• 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, Mengchu Zhou, Yunni Xia, Wanbo Zheng, **Yuandou Wang**, Yawen Li, Xin Luo, Shuiguang Deng, Peng Chen, Chunrong Wu. Reliability-aware and Deadline-constrained Mobile Service Composition over Opportunistic Networks has been accepted by *IEEE Transactions on Automation Science and Engineering* (T-ASE), to be published, 2019. (IF: 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

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- Honorable Mention with Interdisciplinary Contest in Modeling — Feb 2015

Skills

Programming Python/R/Latex(Skillful), Excel/Visio/UML/Git(Skillful), Java(Basic), C/C++(Basic), Matlab(Basic), Linux/Unix (Basic)

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

Patents

- Kunyin Guo, Xiqiao Lin, Yunni Xia, **Yuandou Wang**, Qingsheng Zhu. The dynamic control device, system and method for the number of new tasks in cloud data centre (2014), CN104111875 B, CN201410315765.4.
- Yunni Xia, Kunyin Guo, Xin Luo, Weiling Li, **Yuandou Wang**, Quanwang Wu, Ruilong Yang. A task assignment method considering the performance attenuation of cloud platform hosts (2016). CN 106201847A, CN 201610512166.0.

High Marks

Graph Theory	93	Big Data Analysis and Decision Making	91
Scientific Research Methods and Thesis Writing	92	Meno Part in the Dialogues of Plato	A
Programming in C	90	Graduation Practice	A
Compiler Principle	90	Course Project of Operating System	A
Course Project of Compiler Principle	A	Electronic Technology Practice(I)	A
Algebra and Geometry	90	Engineering Mathematical Analysis(II)	91
Complex Variable Function & Integral Transformation	93	Course Project of Computer Organization	A
Course Project of Computer Network	A	Experiments for Analog electronics(II)	A
Logics	91	Digital Electronics (III)	91
Course Project of Software Engineering	A	Signals & Systems(II)	93
Ethics and Principles of Law	90	Specialty Practice	A
Linux Operating System	93	Environment and Health	90
German Language and Culture	A	Interpretation on Chinese Traditional Culture Classics	91
Policy on Current Affairs(2)	94		