Dr. Hamza Djigal

Assistant Professor · Wenzhou-Kean University, China

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Citations: 502
h-index: 8 · **i10-index:** 8

Research Interests

My research focuses on AI-driven resource allocation mechanisms for security-sensitive IoT applications in Multi-Access Edge Computing (MEC), aiming to advance both theory and practical solutions. Since my hire, I have expanded this agenda to interdisciplinary applications integrating Edge-cloud computing, IoT, and security-aware computing. My work...

- AI-driven Resource Allocation in Edge & Cloud Computing
- LLM Offloading and Execution in MEC
- Task Offloading and Scheduling in MEC Networks
- IoT Applications and Scientific Workflows
- Federated Learning
- UAV-assisted Computing for IoT Applications

Recent Position

Assistant Professor — Wenzhou-Kean University

Aug 2023 — Present · Wenzhou, China

Teaching undergraduate and graduate Computer Science courses; supervising research projects; serving on departmental and university committees.

Education

Ph.D. in Computer Science and Technology

Hohai University · September 2016 — July 2020 · Nanjing, China

Master in Computer Science and Technology

Central China Normal University · September 2012 — July 2014 · Wuhan, China

Master in Algebra and Geometry Application

Cheikh Anta Diop University · October 2011 — July 2012 · Dakar, Senegal

B.Sc. in Mathematics

Cheikh Anta Diop University · October 2007 — July 2010 · Dakar, Senegal

Selected Publications

22+ publications including IEEE Communications Surveys and Tutorials (IF=46.7), ACM Computing Surveys (IF=28), IEEE TPDS (IF=6).

1. Xue, Q., **Hamza Djigal**, Zhang, C. "*Look Before Scheduling: A Low-Cost Supervised Graph Scheduler for Dynamic Workflows*", **Asian Conference on Machine Learning (ACML), Proceedings of Machine Learning Research, vol. 353**, 2026.
   CCF C
2. Tingting Hang, Shuting Liu, Jun Feng, **Hamza Djigal**, and Jun Huang "*Few-Shot Relation Extraction Based on Prompt Learning: A Taxonomy, Survey, Challenges and Future Directions*", **ACM Computing Surveys**, vol. 58, 2025.
   IF=28.00 Q1
3. Tingting Hang, Wei Wu, Jun Feng, **Hamza Djigal**, and Jun Huang "*A Survey of Few-Shot Relation Extraction Combining Meta-Learning with Prompt Learning*", **Neurocomputing**, vol. 647, 2025.
   IF=6.50 Q1
4. **Hamza Djigal**, Jia Xu, Linfeng Liu, and Yan Zhang "*Machine and Deep Learning for Resource Allocation in Multi-Access Edge Computing: A Survey*", **IEEE Communications Surveys and Tutorials**, vol. 24, 2022.
   IF=50.60 Q1
5. **Hamza Djigal**, L. Liu, J. Luo and J. Xu "*BUDA: Budget and Deadline Aware Scheduling Algorithm for Task Graphs in Heterogeneous Systems*", **2022 IEEE/ACM 30th International Symposium on Quality of Service (IWQoS)**, 2022.
   CCF B
6. **Hamza Djigal**, Feng Jun, Jiamin Lu, and Jidong Ge "*IPPTS: An Efficient Algorithm for Scientific Workflow Scheduling in Heterogeneous Computing Systems*", **IEEE Transactions on Parallel and Distributed Systems**, vol. 32, 2021.
   IF=6.00 Q1 CCF A
7. **Hamza Djigal**, Jun Feng, and Jiamin Lu "*Task Scheduling for Heterogeneous Computing using a Predict Cost Matrix*", **48th International Conference on Parallel Processing (ICPP 2019)**, 2019.
   CCF B

Selected Service

- **Reviewer** for IEEE Transactions on Mobile Computing (IF=7.70, Q1)
- **Reviewer** for IEEE Access (IF=3.40, Q1)
- **Reviewer** for The Journal of Supercomputing (IF=2.50, Q2)
- **Reviewer** for Neural Computing & Applications (IF=4.50, Q1)
- **Reviewer** for IEEE Internet of Things Journal (IF=8.90, Q1)

Languages

- **French:** Native or bilingual proficiency
- **English:** Full professional proficiency
- **Chinese (Mandarin):** Intermediate proficiency

- **Arabic:** Reading and writing proficiency