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Dear Postdoc Search Committee,

I am writing to express my interest in Postdoc position at IPM. With a strong background in distributed systems, Edge/Fog Computing and ML-based workload distribution and resource allocation across computing continuum, I am excited about the opportunity to contribute IP's researches work in Computer Science. Please find my curriculum vitae enclosed for your review.

Most recently, I completed my postdoctoral research at the LIS laboratory at Aix-Marseille University, where I leveraged edge computing, microservice architecture, and distributed computing techniques to develop and orchestrate efficient ML-based distributed control systems for the smart management of virtual power plants. This work involved deploying systems on Jetson Nano Pico clusters, providing me with hands-on experience in high-performance, resource-constrained environments.

Prior to that, I served as an associate professor of computer engineering at Bu-Ali Sina University for eight years, where I developed a strong foundation in parallel and distributed computing, with a specific focus on hybrid clusters of CPUs and GPUs. During this time, I also gained experience with scheduling tasks on power-efficient and resource-limited embedded systems at the edge, relevant to many IoT-based networks such as the Internet of Energy (IoE) and Industrial Internet of Things (IIoT). More recently, I supervised two PhD dissertations in federated learnings across heterogenous systems and fault tolerance distributed deep neural networks. Additionally, I mentored over 30 master theses, fostering the next generation of researchers in the field.

I have been fortunate to be recognized in 2024 and 2023 among the World's Top 2% Scientists in Networking, Distributed Computing, and Information and Communication Technologies, which further motivates me to push the boundaries of research in HPC. My track record as a "Distinguished Researcher" from 2017 to 2024 at Bu-Ali Sina University also reflects my dedication to advancing research in these domains.

The IPM interdisciplinary and collaborative research environment is highly appealing, and I am confident that your team's work will offer the ideal platform for me to grow as a researcher while making significant contributions to this project. I look forward to the possibility of joining your research group and working alongside experts in the project.

Thank you for considering my application. I am excited about the opportunity to contribute to your team and to further develop my research in this cutting-edge field.

Best Regards,
Mahdi Abbasi

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