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To: February 15, 2024
Recruitment Committee

Subject: Application for the the position of post-doctoral researcher in Computer Science (Software Engineering and Artificial Intelligence)

Dear Members of the Computer Science Recruitment Committee,

I am writing to express my interest in the Post-Doctoral Researcher position in Computer Science, with a focus on Software Engineering and Artificial Intelligence at Institute for Research in Fundamental Sciences (IPM). As a recent Ph.D. graduate in Computer Engineering (Software) from Iran University of Science and Technology (IUST), I am excited to contribute my expertise to cutting-edge research and development in this field.

Education and Research Background
○ **Ph.D. in Computer Engineering (Software):** I completed my doctoral studies at IUST, where I specialized in Automated and Intelligent Software Engineering (AISE). Under the guidance of Dr. Saeed Parsa, I conducted research in program analysis, transformation, and quality assurance. My dissertation explored innovative approaches to addressing software technical and test debt reduction, as well as enhancing software quality.
○ **Publication Record:** To date, I have authored 11 research articles published in top-tier CS, AI, and engineering journals, along with presentations at international conferences. These contributions reflect my commitment to advancing the field and disseminating knowledge.
○ **Open-Source Contributions:** I take pride in my open-source initiatives. The tools I have designed are freely available to the community and have garnered significant attention on GitHub (*https://github.com/m-zakeri*), with over 100 stars from fellow developers. These tools address critical challenges in software engineering, including quality assurance and test data generation.

Skills and Expertise
○ **Program Analysis:** My research has equipped me with a deep understanding of program analysis techniques, enabling me to uncover hidden patterns and optimize software performance.
○ **Transformation Techniques:** I have explored novel methods for transforming code, improving maintainability, and enhancing software evolution.
○ **Quality Assurance:** My work emphasizes rigorous quality assurance practices, ensuring robust and reliable software systems.
○ **Collaboration and Leadership:** Throughout my academic journey, I have collaborated with interdisciplinary teams, mentored students, and contributed to a vibrant research community.

Why IPM?

I am drawn to IPM's reputation for fostering groundbreaking research and nurturing talented scholars. The collaborative environment, state-of-the-art facilities, and esteemed faculty make it an ideal setting for pursuing innovative research.

Future Goals

As a post-doctoral researcher, I aspire to:

- **Advance Research:** I am eager to delve into cutting-edge topics, collaborate with fellow researchers, and contribute to impactful projects.
- **Mentorship:** I look forward to mentoring students, sharing knowledge, and fostering the next generation of researchers.
- **Community Engagement:** I am committed to engaging with the broader scientific community through workshops, seminars, and open-source contributions.

I am excited about the opportunity to join your esteemed institution and contribute to groundbreaking research in automated software engineering. Thank you for considering my application. I am available for an interview at your convenience. In the meantime, I am enclosing my curriculum vitae and statements of teaching and research interests to be considered by the members of the recruitment committee. I am happy to supply any additional materials or information as immediately as possible. I can be reached via email at *m-zakeri@live.com* or by phone at (+98)9136809110.

Thank you very much for your time and consideration.

Sincerely

Morteza Zakeri-Nasrabadi

Enclosed:
(i) Curriculum Vitæ and (ii) Research and Teaching Statements