



16th June, 2024

Dear Sir/Madam,

I am writing this letter to strongly recommend Dr. Yousef Emami for the position. First, I would like to briefly introduce myself.

Kai Li (Senior member, IEEE) serves as a Visiting Research Scientist within the Department of Engineering at University of Cambridge, United Kingdom. Additionally, I hold the position of Senior Research Scientist at CISTER Research Centre, Porto, Portugal. I am a CMU-Portugal Research Fellow, jointly supported by Carnegie Mellon University, Pittsburgh, PA, USA, and The Foundation for Science and Technology (FCT), Lisbon, Portugal. I served as a Visiting Research Scholar at the CyLab Security and Privacy Institute, CMU. Prior to this engagement, I was a Postdoctoral Research Fellow at the SUTD-MIT International Design Centre, The Singapore University of Technology and Design, Singapore. I have also held positions as a Visiting Research Assistant at the ICT Centre, CSIRO, Brisbane, Queensland, Australia, and as a Research Assistant at the Mobile Technologies Centre, The Chinese University of Hong Kong, Hong Kong.

Yousef has distinguished himself through notable achievements, including the filing of two patents and earning a silver medal from the British Invention Society. He has demonstrated his expertise as an IT manager on major enterprise projects such as the South Pars Project and Gotvand Dam. Academically, Yousef was among the top students in Iran for mathematics and physics and achieved a high ranking in the national PhD exam, which led him to become my PhD student at the CISTER research center.

Upon joining our team, Yousef immediately contributed to our work on the design and implementation of secret key agreements for platoon-based vehicular cyber-physical systems. His significant contributions included the development of an intuitive tool for visualizing results, which greatly enhanced our project.

Yousef excels in accepting and integrating feedback. During his first year, he successfully completed courses in machine learning, optimization, mobile communications, heuristics, and real-time systems. He also

developed a paper titled "Buffer-aware Scheduling for UAV Relay Networks with Energy Fairness," which was published at VTC 2020. Moreover, he finalized his proposal on "Deep Reinforcement Learning for Joint Cruise Control and Intelligent Data Acquisition in UAV-Assisted Sensor Networks" and joined the ARNET project.

Yousef's punctuality, quick learning ability, and multi-perspective approach to problem-solving have been invaluable. These qualities facilitated his advancement of his proposal, culminating in the publication of "Joint Communication Scheduling and Velocity Control in Multi-UAV-Assisted Sensor Networks: A Deep Reinforcement Learning Approach" in IEEE Transactions on Vehicular Technology and IWCMC. His persistence and goal-oriented nature led him to develop an innovative AI-enhanced mean field resource allocation idea, resulting in a collaboration with Prof. Zhu Han and his team from the University of Houston. Their work was published as "Age of Information Minimization Using Multi-Agent UAVs Based on AI-Enhanced Mean Field Resource Allocation" in IEEE Transactions on Vehicular Technology and presented at ICC Rome 2023.

Yousef has consistently demonstrated trustworthiness, politeness, talent, and a pleasant demeanor. He is loyal, excels under pressure, and consistently finds the most appropriate and effective solutions. Consequently, I strongly recommend Yousef for this position without hesitation. Should you have any further questions, please do not hesitate to contact me.

Sincerely,

Dr. Kai Li, 

Visiting Research Scientist, University of Cambridge, U.K., and Carnegie Mellon University (CMU), USA,

Senior Research Scientist and CMU-Portugal Research Fellow,

Head of Intelligent NetworKed Systems (INKS) Laboratory,

CISTER Research Centre, Portugal.

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