诚　聘 (Recruitment Advertisement)

香港理工大学电子计算学系互联网与移动计算实验室现招聘多名博士生、博士后、研究助理进行如下相关项目研究。

The Internet and Mobile Computing Lab (IMCL) of the Department of Computing of The Hong Kong Polytechnic University is recruiting PhD students, Postdoctoral Fellows and Research Assistants for the following research projects.

大数据分析方向项目招聘信息
Recruitment information of the big data analytics related projects

研究内容：
1. 研究多阶段的复杂系统中联合数据采集、特征学习、关联学习、多目标联合的模型学习等问题；在实际应用中验证所提方法的有效性。
2. 设计和实现基于大数据分析的资源分配与调度算法；实现资源管理大数据平台的设计、开发、集成和测试；
3. 应用大数据分析方法辅助、解决食品安全问题中的污染物检测、异常检测、风险预估等问题

Research Topics:
1. Study and propose solutions or algorithms in joint data collection, feature learning, correlation metric learning and model learning for multi-stage complex system; Apply the proposed algorithms or models to solve real problems in practice.
2. Design and implement big data-driven resource allocation algorithms; Realize the design, development, integration and testing of the big data-driven resource allocation platform.
3. Apply big data analysis for assisting and solving the problems in food safety, including contaminant detection, anomaly detection and risk prediction.

要求：
1. 较强的编程能力（C, C++, Python, Java 等），熟悉主流系统测试方法；熟悉数据挖掘和机器学习算法，熟悉深度学习编程框架（tensorflow 或 pytorch）
2. 具有良好的英语写作和交流能力。

Requirements:
1. Proficiency in data mining, machine learning and deep learning frameworks (tensorflow or pytorch) ; Good coding ability in Python, Java and so on; Have good experience in system development testing; Familiar with)
2. The applicants should have good English writing and communication skills.

边缘计算与网络方向项目招聘信息
Recruitment information of the edge computing and networking related projects

研究内容：
1. 研究边缘计算的基本问题，如 Edge AI；设计和实现协同边缘计算平台；
2. 研究 5G 网络与通信的可靠性与低延迟问题；设计和实现 5G 平台原型系统；

Responsibility:
1. Study the fundamental problems for edge computing including Edge AI; Design and implement the collaborative edge computing platform;
2. Study the fundamental problems for reliable and low latency 5G network and communication; Design and implement the prototype of the 5G platform;

要求：

1. 较强的编程能力（C++, C, Python, Java 等），熟悉边缘计算、分布式算法、深度学习算法等。
2. 具有良好的英语写作和交流能力。

Requirements:
1. Proficiency in edge computing, distributed system or network protocols; Skillful and hands-on experience in C++, C, Python, Java and so on;
2. The applicants should have good English writing and communication skills.

区块链方向项目招聘信息
Recruitment information of blockchain related projects

职责:
1. 研究基于区块链的数据管理与共享中的问题与挑战。
2. 开发基于区块链的数据管理及共享系统

Responsibility:
1. Study and solve the challenging issues related to blockchain-based data management and sharing.
2. Develop blockchain-based data management and sharing system for food safety and other applications.

要求:
1. 熟悉分布式系统，密码学及信息安全，计算机网络，软件工程相关研究（至少两项）。
2. 具有良好的英语写作和交流能力。

Requirements:
1. Research experience in distributed systems, cryptography and information security; computer networks, and software engineering (at least two of them).
2. The applicants should have good English writing and communication skills.

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*以上项目职位学历要求:
博士生申请人需具有计算机相关专业本科或硕士学历，申请人也可为在读本科或硕士最后一年的学生；研究助理需具有计算机相关专业的本科或以上学历；博士后需具有计算机相关专业的博士学位。

*Academic requirements for the post in the above projects:
PhD applicant should have a bachelor or master's degree in computer science, the applicant can also be the final year undergraduate or postgraduate master/mphil student. For research assistant, an honored degree in computer science or a related filed is required. For postdoctoral fellow, a doctor degree in computer science or a related filed is required.

联系我们：如您对以上职位感兴趣，请通过电话（+852 2766 7275），传真（+852 2774 0842）和邮件 jiannong.cao@polyu.edu.hk 联系项目负责人曹建农教授。

Contact us: Applicants are invited to contact Prof. Jiannong Cao at tel no. 2766 7275, fax no. 2774 0842 or email jiannong.cao@polyu.edu.hk for further information.