香港浸會大學
HONG KONG BAPTIST UNIVERSITY

研發辦公室
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Decoding the Future

Innovation through Data Science

Research Office

From Theory to Therapy: Translating AI into Medical Breakthroughs

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Professor Michael Ng, Dean of Science and Chair Professor at the Departments of Mathematics and Computer Science, has won the Wu Wenjun Artificial Intelligence Science and Technology Award for his work in multimodal computing for intelligent healthcare. He has also received the Partnership Research Programme grant from the Innovation and Technology Commission, which will equip his team to translate complex mathematical theories into real-world medical and technological breakthroughs.

CREATIVE MEDIA AND PRACTICE | HEALTH AND DRUG DISCOVERY | **DATA ANALYTICS AND ARTIFICIAL INTELLIGENCE** | HUMANITIES AND CULTURES

HKBU Hosts Croucher ASI on 'AI for Biomedicine'

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Led by **Professor Yuen Pong-chi**, Chair Professor in Computer Science and the event's organising committee chair, the Croucher Advanced Study Institute (ASI) on "AI for Biomedicine" brought together an international panel of experts to explore the complexities of interdisciplinary drug discovery. Professor Yuen pointed out the synergy between HKBU's School of Chinese Medicine and the Department of Computer Science, which positions the University at the forefront of biomedical innovation.

Navigating the Frontiers of AI and Research Funding

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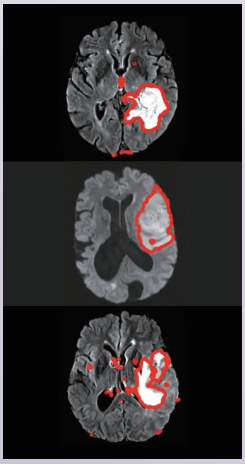
A Research Mixer was held to provide the HKBU research community with a strategic blueprint for success in applying for the General Research Fund and Early Career Scheme. During the panel discussion, **Professor Xu Jianliang**, Head and Chair Professor in Computer Science, explained institutional support mechanisms at faculty and departmental levels. Drawing on their expertise in data analytics and AI, Professor Xu and fellow senior members of the faculty described key success factors and the impact these grants have on academic trajectories.



Iterative Masking for Automated 3D MRI Anomaly Detection

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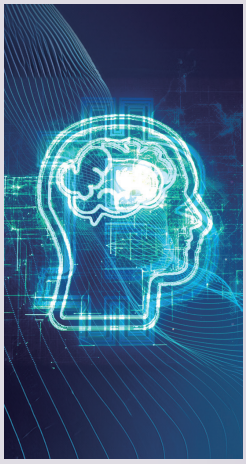
IterMask3D is an unsupervised learning AI that studies normal 3D brain MRI patterns from healthy scans, and flags deviations by iteratively masking and reconstructing images. It can aid technicians and researchers with quality control, and may help detect overlooked lesions. **Professor Guo Xiaoqing** of the Department of Computer Science was awarded the MICCAI MedIA Best Paper Award for this research, in collaboration with researchers at the University of Oxford.



Harnessing AI and Data Analytics for Health Innovation

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HKBU is leading a new era of healthcare by integrating systems biology, AI, and Chinese medicine to tackle global health challenges. This interdisciplinary endeavour is led by **Professor Zhou Changsong**, Chair Professor in Physics and Complex Systems, and **Professor Tian Liang**, Associate Head and Associate Professor of the Department of Physics, who use large-scale brain network models and AI frameworks to bridge the gap between modern science and Traditional Chinese Medicine.

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解码未来
数据科学驱动创新

研發辦公室

从理论到疗法：将人工智能转化为医疗突破

了解更多

理学院院长、数学系及计算机科学系讲座教授**吴国宝教授**近期凭借两项重大成就，巩固了浸会大学在人工智能领域的领导地位。作为世界顶尖的数据科学专家，吴教授因其在智能医疗多模态计算方面的卓越贡献，荣获「吴文俊人工智能科学技术奖」。此外，他还获得创新科技署「伙伴研究计划」的资助，助力其团队将复杂的数学理论转化为医疗及科技领域的现实突破。

创意媒体 | 健康与药物研发 | **数据分析与人工智能** | 人文及文化

专家荟萃：「生物医学与人工智能」裘槎高级研讨会

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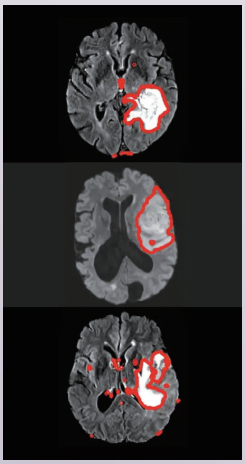
在计算机科学系讲座教授兼活动筹委会主席**阮邦志教授**的带领下，以「生物医学与人工智能」为主题的裘槎高级研讨会汇聚了全球专家，共同探讨跨学科药物研发的复杂挑战。

阮教授强调，浸大中医药学院与计算机科学研究团队的协同效应，使大学在生物医学创新领域处于领先地位。

领航人工智能与研究资助新前沿

了解更多

浸会大学举办了一场「研者汇粹」，助力本校的研究社群顺利申请「优配研究金」及「杰出青年学者计划」。在小组讨论环节，计算机科学系系主任兼讲座教授**徐建良教授**探讨了稳健的院校支持机制。凭借其在数据分析和人工智能领域的领导力，徐教授与其他资深浸大学者阐述了获批资助的关键因素，以及这些资助对学术发展的深远影响。



三维磁共振成像（3D MRI）自动异常检测的迭代掩模技术

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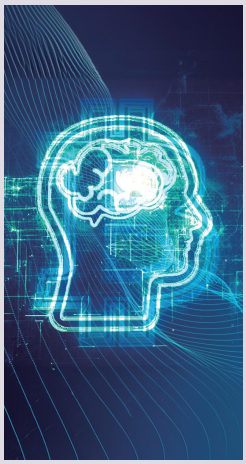
IterMask3D 一种无监督学习的人工智能模型，通过学习健康扫描图像中的正常三维脑部 MRI 模式，并利用迭代掩模与重构图像的过程来标记偏差之处。该技术能协助技术人员与研究人员进行质量控制，并有助于侦测被忽略的病灶。凭借此项研究，计算机科学系**郭小青教授**与牛津大学的研究团队合作，荣获了 MICCAI MedIA 最佳论文奖。



智驭未来： 利用人工智能及数据分析驱动健康创新

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浸会大学正通过融合系统生物学、人工智能及中医药学，引领医疗新时代，应对全球健康挑战。这一跨学科研究由物理与复杂系统讲座教授**周昌松教授**，以及物理系副系主任兼副教授**田亮教授**领导。他们利用大规模的大脑网络模型和人工智能框架，弥合了现代生物医学与中医药学之间的鸿沟。

浸大研发办公室

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