

‘中德人工智能高峰论坛暨中德自然基金讨论会’会议通知

(2018年01月20-21日)

‘中德人工智能高峰论坛暨中德自然基金讨论会’将于2018年1月20-21日在海南三亚中国科学院遥感与数字地球研究所园区召开，会议由中国科学院三亚遥感技术研究所具体承办。本论坛旨在充分利用中德人工智能、心理学、神经科学等领域团队的互补优势，以跨模态学习为契合点加强跨学科，跨区域，跨文化的合作，带来不同方法的交互和突破，推动新一代智能机器人、心理学和类脑计算等相关领域的研究工作。

论坛邀请了清华大学，北京大学，中科院心理所，中科院遥感所，北京师范大学，德国汉堡大学等单位的四十多名专家学者，将从机器人学，心理学，神经学等多学科对跨模态学习的自适应，预测和交互研究进行深入交流和讨论。论坛讲专题讲座和讨论的形式进行学术交流和知识更新，进一步推动跨模态学习研究向更深层次发展。

会议信息:

- 1) 会议报到时间: 2018年01月19日(周五), 14:00-22:00
- 2) 会议时间: 2018年01月20-21日(两天)
- 3) 会议地点: 海南省三亚市中国科学院遥感与数字地球研究所园区
- 4) 会议现场注册, 收取相应会议费(用于住宿, 餐饮, 交通, 会议等)
- 5) 会务联系人: 孙闰泽, 17611567928
- 6) 附件: 1. 会议日程安排
2. 会议回执

组委会

2018年12月28日

Sino-German Artificial Intelligence Summit · Sino-German Natural Science Foundation Workshop

(Jan 20-21st, 2018)

“Sino-German Artificial Intelligence Summit · Sino-German Natural Science Foundation Workshop” will be held on January 20-21, 2018 in *Institute of Remote Sensing and Digital Earth Research of Chinese Academy of Sciences*, Sanya, Hainan. The conference will be hosted by Sanya Institute of Remote Sensing Technology, Chinese Academy of Sciences. This summit aims 1) to take the full complementary advantages of the teams from China and Germany in the fields of artificial intelligence, psychology, neuroscience, etc., 2) to promote interdisciplinary, inter-regional and intercultural cooperation with cross-modal learning as the meeting point, 3) to bring new breakthrough for different interaction methods, and 4) to promote a new generation of intelligent robots, psychology and brain-related computing and other related fields of research.

The summit invited more than 40 experts and scholars from Tsinghua University, Peking University, Chinese Academy of Sciences Institute of Psychology, Chinese Academy of Sciences Institute of Remote Sensing, Beijing Normal University, Hamburg University and so on. The summit will exchange and discuss adaptivity, predictivity and interaction in cross-modal learning from the aspects of robotics, psychology, neuroscience and other multidiscipline. The academic result and knowledge will be exchanged and updated in sessions of lectures and discussions, so that we can develop the cross-modal learning in a new level.

Meeting Information:

- 1) Conference Registration Time: January 19, 2018 (Fri), 14:00-22:00
- 2) Conference Time: 20-21 January 2018 (two days)
- 3) Address: Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Sanya, Hainan Province
- 4) Registration on site, collect the corresponding conference fee (for accommodation, catering, transportation, meetings, etc.)
- 5) Conference contacts: Runze Sun, Cell phone (+86)176 1556 7928
- 6) Attachments: 1. Meeting schedule
2. Conference receipt

附件一：会议日程安排 / schedule

日程(2018年01月20日) / schedule	
时间	事项
9:00-9:10	国家自然科学基金委信息科学部领导致辞 Speech by Leader from Department of Information Science in Natural Science Foundation of China
9:10-9:20	中国科学院遥感与数字地球研究所领导致辞 Speech by Leader from <i>Institute of Remote Sensing and Digital Earth Research of Chinese Academy of Sciences</i>
9:20-9:30	清华大学计算机系智能技术与系统国家重点实验室常务副主任孙富春致辞 Speech by Sun Fuchun, Deputy Director, State Key Laboratory of Intelligent Technology and Systems, Department of Computer Science, Tsinghua University
9:30-10:00	汉堡大学张建伟教授：跨模态学习的自适应，预测和交互 Professor Zhang Jianwei from Hamburg University: Adaptation, prediction and interaction of cross-modal learning
	主题报告一：《动态系统自适应》 Topic 1: "Adaptivity of Dynamic Systems"
10:00-10:20	Crossmodal learning in the spatial and temporal domains (洪波, Brigitte Röder)
10:20-10:40	利用多重扰动分析揭示多感觉信息处理的神经环路基础 Using multiperturbation analysis to reveal the neural-circuit basis of multisensory processing (管吉松, Claus C. Hilgetag)
10:40-11:00	Multisensory integration in the aging brain: mechanisms and facilitation (薛贵, Friedhelm Hummel)
11:00-11:30	茶歇/coffee break
11:30-11:50	机器人任务中跨模态联合稀疏特征学习 Crossmodal joint sparse feature learning in robot tasks (张长水, 张建伟)
11:50-12:10	Crossmodal learning in a neurobotic cortical and midbrain model (刘勋, Stefan wermtner)
12:10-12:30	受大脑启发的多模态深度学习模型 Brain-inspired multimodal deep learning (胡晓林, Cornelius Weber)
12:30-14:00	午餐/lunch
	主题报告二：《跨模态的泛化及预测》 Topic 2: Cross-modal Generation and Prediction
14:00-14:20	跨模态融合中的学习、语义及社会影响的贝叶斯分析 Bayesian analysis of

	the interaction of learning, semantics and social influence with crossmodal integration (朱军, Jan Philipp Gläscher)
14:20-14:40	跨模态预测的内隐学习的认知神经机制 Neurocognitive mechanisms for implicit learning of cross-modal predictions (付秋芳, 高小榕, Michael Rose)
14:40-15:00	跨模态学习和冲突处理的脑机制 Brain dynamics of cross-modal learning and conflict processing (刘勋, Guido Nolte)
15:00-15:20	主动人-机器人协同中灵巧操作的跨模态融合 Crossmodal fusion for dexterous manipulation in proactive human-robot collaboration (孙富春, 张建伟)
15:20-15:50	茶歇/coffee break
主题报告三: 《跨模态的人机交互》 Topic 3: Cross-modal Human and Robot Interaction	
15:50-16:10	跨模态的语音信息神经表征及其在言语学习中的动态变化 Cross-modal speech representations and their implications in speech learning (洪波, Guido Nolte)
16:10-16:30	跨通道语言学习—机制与促进 Cross-modal learning of language – mechanisms and facilitation (薛贵, Andreas K. Engel)
16:30-16:50	视觉与动作驱动的跨模态语言学习 Vision- and action-embodied language learning (刘知远)
16:50-17:10	主动视觉与多模态言语理解的整合 Combining active vision with multimodal speech comprehension (李兴珊, 屈青青, Wolfgang Menzel)
17:10-17:30	跨感觉通道远程操作中的多感觉通道知觉、学习与动作 Multisensory perception, learning and action for crossmodal tele-operations (方方, 陈立翰, Frank Steinicke)
日程 (2018年1月21日)	
9:00-10:00	Theory workshop
10:00-11:00	Modelling workshop
11:00-11:30	茶歇/ coffee break
11:30-12:30	Integration & application workshop
12:30-14:00	午餐/lunch
14:00-15:30	参观实验室/visiting labs
15:30-16:00	茶歇/coffee break
16:00-17:30	讨论会/ discussions