北京科技大学 人工智能研究院
Institute of Artificial Intelligence，University of Science and Technology Beijing

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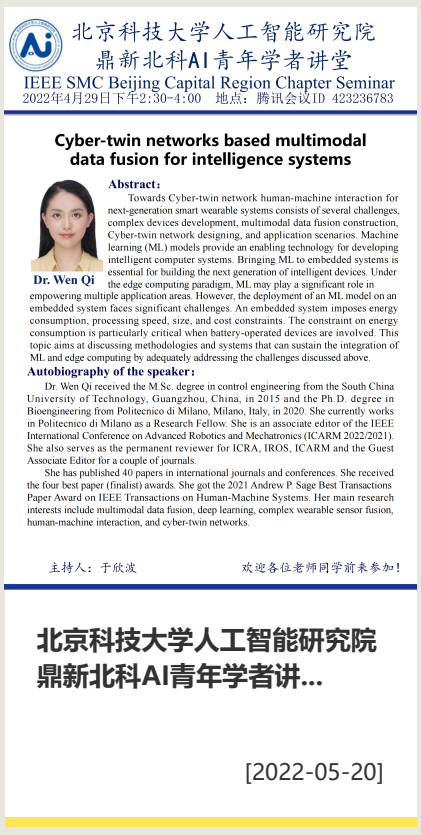

北京科技大学人工智能研究院
鼎新北科AI青年学者讲堂
IEEE SMC Beijing Capital Region Chapter Seminar
2022年4月29日下午2:30-4:00 地点：腾讯会议ID 423236783

Cyber-twin networks based multimodal data fusion for intelligence systems

Dr. Wen Qi

Abstract:

Towards Cyber-twin network human-machine interaction for next-generation smart wearable systems consists of several challenges, complex devices development, multimodal data fusion construction, Cyber-twin network designing, and application scenarios. Machine learning (ML) models provide an enabling technology for developing intelligent computer systems. Bringing ML to embedded systems is essential for building the next generation of intelligent devices. Under the edge computing paradigm, ML may play a significant role in empowering multiple application areas. However, the deployment of an ML model on an embedded system faces significant challenges. An embedded system imposes energy consumption, processing speed, size, and cost constraints. The constraint on energy consumption is particularly critical when battery-operated devices are involved. This topic aims at discussing methodologies and systems that can sustain the integration of ML and edge computing by adequately addressing the challenges discussed above.

Autobiography of the speaker:

Dr. Wen Qi received the M.Sc. degree in control engineering from the South China University of Technology, Guangzhou, China, in 2015 and the Ph.D. degree in Bioengineering from Politecnico di Milano, Milano, Italy, in 2020. She currently works in Politecnico di Milano as a Research Fellow. She is an associate editor of the IEEE International Conference on Advanced Robotics and Mechatronics (ICARM 2022/2021). She also serves as the permanent reviewer for ICRA, IROS, ICARM and the Guest Associate Editor for a couple of journals.

She has published 40 papers in international journals and conferences. She received the four best paper (finalist) awards. She got the 2021 Andrew P. Sage Best Transactions Paper Award on IEEE Transactions on Human-Machine Systems. Her main research interests include multimodal data fusion, deep learning, complex wearable sensor fusion, human-machine interaction, and cyber-twin networks.

主持人：于欣波　　欢迎各位老师同学前来参加！

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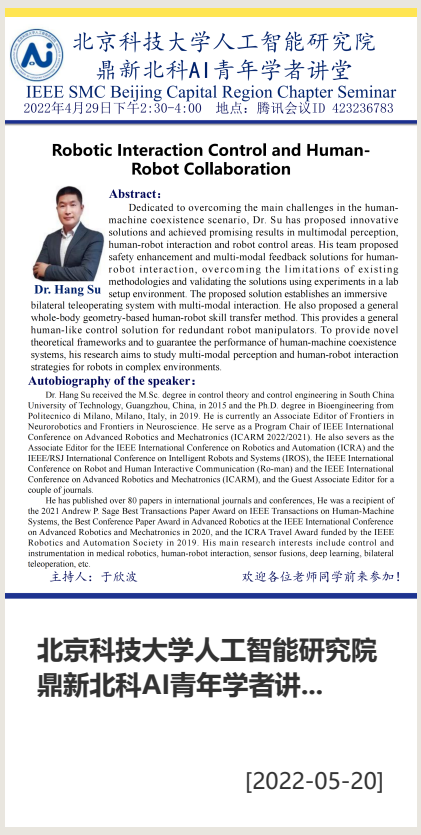

北京科技大学人工智能研究院
鼎新北科AI青年学者讲堂
IEEE SMC Beijing Capital Region Chapter Seminar
2022年4月29日下午2:30-4:00 地点：腾讯会议ID 423236783

Robotic Interaction Control and Human-Robot Collaboration

Dr. Hang Su

Abstract:

Dedicated to overcoming the main challenges in the human-machine coexistence scenario, Dr. Su has proposed innovative solutions and achieved promising results in multimodal perception, human-robot interaction and robot control areas. His team proposed safety enhancement and multi-modal feedback solutions for human-robot interaction, overcoming the limitations of existing methodologies and validating the solutions using experiments in a lab setup environment. The proposed solution establishes an immersive bilateral teleoperating system with multi-modal interaction. He also proposed a general whole-body geometry-based human-robot skill transfer method. This provides a general human-like control solution for redundant robot manipulators. To provide novel theoretical frameworks and to guarantee the performance of human-machine coexistence systems, his research aims to study multi-modal perception and human-robot interaction strategies for robots in complex environments.

Autobiography of the speaker:

Dr. Hang Su received the M.Sc. degree in control theory and control engineering in South China University of Technology, Guangzhou, China, in 2015 and the Ph.D. degree in Bioengineering from Politecnico di Milano, Milano, Italy, in 2019. He is currently an Associate Editor of Frontiers in Neurorobotics and Frontiers in Neuroscience. He serve as a Program Chair of IEEE International Conference on Advanced Robotics and Mechatronics (ICARM 2022/2021). He also severs as the Associate Editor for the IEEE International Conference on Robotics and Automation (ICRA) and the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), the IEEE International Conference on Robot and Human Interactive Communication (Ro-man) and the IEEE International Conference on Advanced Robotics and Mechatronics (ICARM), and the Guest Associate Editor for a couple of journals.

He has published over 80 papers in international journals and conferences, He was a recipient of the 2021 Andrew P. Sage Best Transactions Paper Award on IEEE Transactions on Human-Machine Systems, the Best Conference Paper Award in Advanced Robotics at the IEEE International Conference on Advanced Robotics and Mechatronics in 2020, and the ICRA Travel Award funded by the IEEE Robotics and Automation Society in 2019. His main research interests include control and instrumentation in medical robotics, human-robot interaction, sensor fusions, deep learning, bilateral teleoperation, etc.

主持人：于欣波　　欢迎各位老师同学前来参加！

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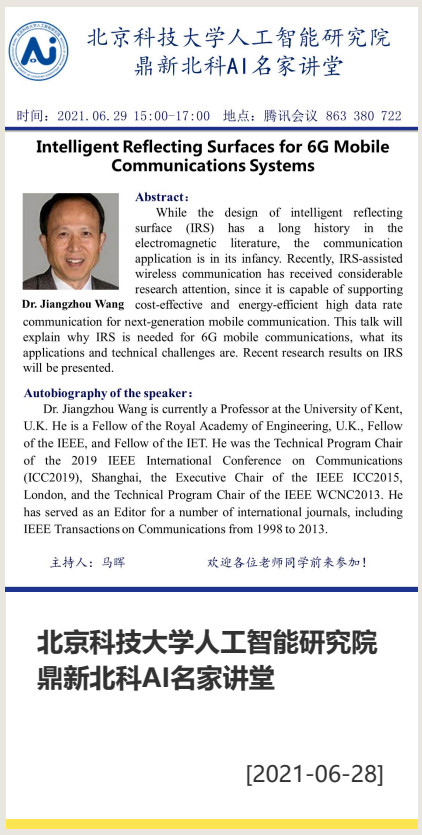
[2022-05-20]



北京科技大学人工智能研究院
鼎新北科AI名家讲堂

时间：2021.06.29 15:00-17:00 地点：腾讯会议 863 380 722

Intelligent Reflecting Surfaces for 6G Mobile Communications Systems

Dr. Jiangzhou Wang

Abstract:

While the design of intelligent reflecting surface (IRS) has a long history in the electromagnetic literature, the communication application is in its infancy. Recently, IRS-assisted wireless communication has received considerable research attention, since it is capable of supporting cost-effective and energy-efficient high data rate communication for next-generation mobile communication. This talk will explain why IRS is needed for 6G mobile communications, what its applications and technical challenges are. Recent research results on IRS will be presented.

Autobiography of the speaker:

Dr. Jiangzhou Wang is currently a Professor at the University of Kent, U.K. He is a Fellow of the Royal Academy of Engineering, U.K., Fellow of the IEEE, and Fellow of the IET. He was the Technical Program Chair of the 2019 IEEE International Conference on Communications (ICC2019), Shanghai, the Executive Chair of the IEEE ICC2015, London, and the Technical Program Chair of the IEEE WCNC2013. He has served as an Editor for a number of international journals, including IEEE Transactions on Communications from 1998 to 2013.

主持人：马晖　　欢迎各位老师同学前来参加！

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[2021-06-28]

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