

## Program Information

### Seminar on Medical Artificial Intelligence (Online)

Name	Seminar on Medical Artificial Intelligence		
Organizer	Nanjing University of Information Science and Technology		
Time	November 3 to 16, 2023	Language	English
Invited Countries	Developing Countries	Number of Participants	25
Purpose	<p>The seminar aims to share the basic knowledge of artificial intelligence with participants from countries represented, and cultivate a understanding of the basics of AI technologies, such as machine learning and deep learning. It focuses on the application scenarios and specific cases of artificial intelligence technologies in medical field, such as medical imaging, clinical auxiliary decision-making, precision medicine, and health managements. The seminar will also contain sharing of China's experiences and achievements in the application of AI technologies in medicine to offer knowledge support to participants in relevant fields in their works. The seminar will also be a good opportunities for exchanges and collaborations between China and countries to be represented in the field of artificial intelligence in medicine.</p>		
Requirements for Participants	Professional Background	<p>The course is open to applicants who:</p> <ul style="list-style-type: none"> <li>- work with agencies or departments of medical technology, medical instruments, healthcare, and health management;</li> <li>- hold such positions related to medical technology research and development, medical instrument design, and healthcare services;</li> <li>- hold BSc. degree in relevant disciplines and have at least 2-year working experience in relevant fields;</li> <li>- own college-level knowledge of mathematics and physics.</li> </ul>	
	Age	Not exceeding the statutory retirement age in participant's own country	
	Health Condition	Be in good health and capable of attending online courses as scheduled	
	Language Proficiency	Competence of English in listening, reading, speaking and writing adequate for attending online technical training events.	

	Others	<p>This course will be conducted remotely live through voov-meeting. All live sessions will be recorded and uploaded to our learning platform for later access. NUIST, the seminar host, will provide detailed instructions and technical support to facilitate participants' attendance. Participants are expected to make relevant devices and Internet connection ready before applying for the seminar or after nomination.</p>
Training Content	<p>Commissioned by the Ministry of Commerce of the People's Republic of China (MOFCOM), <i>Seminar on Medical Artificial Intelligence</i> will be hosted online by Nanjing University of Information Science and Technology (NUIST) from November 3 to 16, 2023. The working language of this online 14-day event is English. Lectures on the following topics will be included:</p> <ol style="list-style-type: none"> <li>1. <i>Basics of China and Chinese Culture</i> to introduce China's geography, politics, economy, science and technology, education and customs, especially the great achievements and experience since the reform and opening up.</li> <li>2. <i>Up and out of Poverty</i> to introduce the great achievements of China in poverty reduction for more than 70 years and its contribution to the realization of global sustainable development goals, and share the experience of poverty reduction from China.</li> <li>3. <i>Basics of Artificial Intelligence</i> to share the concepts and history of AI, and gain knowledge on its work scope and application scenarios while focusing on big data and deep learning.</li> <li>4. <i>AI and Smart Medical Service</i> to introduce the major scenarios of AI in medicine through cloud storage and computing including precision medicine, health monitoring and management, self-service health management, system design and decision-making supports.</li> <li>5. <i>Application of AI in Medical Imaging Analysis</i> to cover the process of recognizing, analyzing, and processing unstructured image data, and inputting data into neural network deep learning trained models, and conducting image diagnose with validated, summarized, and iterated algorithm models, and finally producing personalized diagnosis and treatment plans.</li> <li>6. <i>AI in Smart Health Management</i>: to cover the integration of the Internet of Things and artificial intelligence technologies to realize data collection, monitoring, and comprehensive intelligent analysis of various data indicators throughout the user's entire lifecycle and promote health management of users, particularly in disease prevention and chronic disease management.</li> <li>7. <i>Development of China's "Artificial Intelligence plus Medical" Industry</i> to share China's</li> </ol>	

	<p>progress in AI-enhanced image analysis and diagnosis, AI-embedded medical robots, AI-assisted community health service and public health management.</p> <p>Lecturers for this seminar include highly experienced researchers and leading operational meteorologists with NUIST-Zhongda Hospital Institute of AI in Medicine, and all of lecturers holding PhD degrees and most holding advanced professional credentials.</p> <p>The seminar includes two guided cloud tours to Zhongda Hopital and Jiangsu Traditional Chinese Medicine Museum to gain first-hand experience across screens on the operational applications of AI technologies in medical service providers in China and obtain the very first-time experiences with the famed traditional Chinese medicine..</p> <p>All live sessions incorporate Q&amp;A parts to support participants for better understanding of lecture and activity content. Non-technical lectures on China, Chinese Culture and Chinese people will also be contained to promote people-to-people exchanges.</p>
Notes	<p>The course will be run by both live sessions on video-conferencing platform and recorded sessions on a NUIST-hosted learning management system (LMS). Details on the platforms will be shared later. Participants are expected to have necessary equipment and devices such as internet connection, computer, microphone, camera, etc. in place before participation.</p> <p>Digital certificates of completion will be issued to those who meet a series of requirements in attendance, classroom performance and engagement).</p> <p>All admitted participants will be informed of their respective participant ID, which will be the only valid ID for every participant into all course activities.</p> <p>All course materials, including but not limited to, program information, participant guide, lecture slides, lecture videos, course photos, screen shots, and relevant texts are intellectual property of Nanjing University of Information Science and Technology and are for personal and non-commercial use only.</p>
About the Organizer	<p>Nanjing University of Information Science &amp; Technology is a highly recognized Regional Training Center (RTC-Nanjing) by the World Meteorological Organization (WMO) as well as UNESCAP/WMO Typhoon Committee. It has held nearly 210 multi- and bi-lateral training courses from 1990 to July 2023. Almost 5,500 meteorologists and hydrologists from 158 countries (regions) have been trained. Many of them have become the backbone in their respective National Meteorological and Hydrological Services (NMHSs).</p> <p>With strong support from Chinese government, RTC-Nanjing provides a wide range of international training courses on various subjects for the development of human resources in developing countries, such as atmospheric observation, weather forecasting, climate prediction,</p>

	<p>climate information service, disaster risk prevention and reduction, climate change management, agro-meteorology, radar meteorology, satellite meteorology, weather modification technologies, tropical cyclone forecasting, numerical weather prediction technologies, administrative management of meteorological services, etc.</p> <p>It strictly follows the WMO Manual on the Implementation of Education and Training Standards in Meteorology and Hydrology, and Guidelines for the education and training of meteorological personnel in meteorology and operational hydrology, and other regulator materials. More information about NUIST can be found on the website <a href="http://en.nuist.edu.cn/">http://en.nuist.edu.cn/</a>.</p>
Contact the Organizer	<p>Contact Person(s): SHEN Guangqiu (Ms. Diane)  Telephone: 0086-25-5873 1403  Mobile phone: 0086-139 5107 1763 (SHEN)  QQ Accounts: 131 5545 467 (SHEN)  E-mail: <a href="mailto:rtc@nuist.edu.cn">rtc@nuist.edu.cn</a></p>