“Artificial Intelligence: Algorithms and Applications” Online Program
Why Learn AI >>

- Be regarded as the skill of the century
- Have the skill to handle huge amounts of data
- Help you pursue a bright career
- Applicable to any area
- Benefit the society
Overview >>
The program is about to walk students through scientific research, project practice and real world applications to consolidate the theoretical foundation of students in AI subject, and enhance students’ skills to deal with complex and comprehensive problems in real case scenarios.

The program includes 16 90-minute live ZOOM lecture courses, personal reflection, and a scientific report, which enable students to shape the vision and strategies about AI subject, and be inspired to continuously adapt and deliver innovation in the future.

Learning Outcome >>
After completing the program, the students will have the opportunity to:

- Master the basic theoretical knowledge of AI, understand the real application scenarios of the methods of forecasting and evaluating practical problems, and understand the world’s latest application innovations and development trends in the subject field.
- Obtain a learning certificate issued by Nankai University.
- Complete at least one scientific report.
- Might obtain a recommendation letter written by Nankai teaching team according to the actual academic situation of the student.
# Program Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Beijing Time (GMT+8)</th>
<th>Central European Time</th>
<th>Schedule</th>
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<tbody>
<tr>
<td><strong>June 28</strong></td>
<td>15:00-15:30</td>
<td>09:00-09:30</td>
<td>Opening Ceremony, Machine Vision: Camera &amp; Images, Invited Lecture</td>
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<td>15:30-17:00</td>
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<td><strong>June 29</strong></td>
<td>15:00-16:30</td>
<td>09:00-10:30</td>
<td>Machine Vision: Image Processing, Medical Robotics: Robot Kinematics and Control</td>
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<td><strong>June 30</strong></td>
<td>15:00-16:30</td>
<td>09:00-10:30</td>
<td>Machine Vision: Pyramid Matching, Medical Robotics: Virtual Reality and Force Feedback</td>
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<td><strong>July 1</strong></td>
<td>15:00-16:30</td>
<td>09:00-10:30</td>
<td>Machine Vision: Edge Detection, Medical Robotics: Surgical Robot Systems</td>
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<td><strong>July 2</strong></td>
<td>15:00-16:30</td>
<td>09:00-10:30</td>
<td>Invited Lecture, Medical Robotics: Medical Imaging and Processing</td>
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<td><strong>July 5</strong></td>
<td>15:00-16:30</td>
<td>09:00-10:30</td>
<td>Machine Vision: Interesting Point Detection, Medical Robotics: Image-guided Interventions</td>
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<td><strong>July 6</strong></td>
<td>15:00-16:30</td>
<td>09:00-10:30</td>
<td>Machine Vision: Fitting &amp; Alignment, Medical Robotics: Neural Deficits and Rehabilitation Robot Systems</td>
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<td><strong>July 7</strong></td>
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<td>09:00-10:30</td>
<td>Machine Vision: Stereo Matching &amp; Depth Estimation, Medical Robotics: Rehabilitation Therapy and Assessment</td>
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<td><strong>July 8</strong></td>
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<td>09:00-10:30</td>
<td>Machine Vision: Multi-Scale Image Understanding, Invited Lecture</td>
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<td><strong>July 9</strong></td>
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<td>09:00-09:30</td>
<td>Medical Robotics: Assistive Technologies, Invited Lecture</td>
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<td>17:50-18:10</td>
<td>11:50-12:10</td>
<td>Closing Ceremony</td>
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## Learning Community Expectations

- Participate and engage.
- Keep asking and judging.
- Share and be open.
ABOUT NANKAI UNIVERSITY

- Founded in 1919
- One of the **TOP** universities in China
- **30,000+** students, **2200+** faculty members and **860+** professors
- **26** colleges and **190+** academic programs
- **15** disciplines are among the top **1%** of ESI

For more information, please click >> [http://ennew.nankai.edu.cn](http://ennew.nankai.edu.cn)
Our faculty team is led by two professors from Nankai University, who are the leading researchers in the field of AI in China. The faculty team also includes senior technical consultants, senior engineers and excellent postdocs from top overseas universities and world-renowned AI-related companies.

**Course 1: Machine Vision**

- **Lecturer:** Ming-Ming Cheng  
  Professor, College of Computer Science, Nankai University
- **Educational Background:** Ph.D, Tsinghua University  
- **Research Interests:** Computer Vision and Computer Graphics  
- **Publications:** published over 100 papers in leading journals and conferences, such as IEEE TPAMI, ACM TOG, IEEE CVPR, etc. Many of his algorithms have become quite popular in the community, receiving more than 20,000 paper citations.
- **Awards:** ACM China Rising Star Award, the IBM Global SUR award, etc.

**Course 2: Medical Robotics**

- **Lecturer:** Ningbo Yu  
  Professor, College of Artificial Intelligence, Nankai University
- **Educational Background:** Ph.D, ETH Zurich  
- **Research Interests:** Medical Robotics and AI in Medicine  
- **Publications:** published over 50 papers in leading journals and conferences, such as IEEE Trans. Mechatronics, Mechanical Systems and Signal Processing, Brain Topography, IROS, etc. Many of his algorithms, techniques and systems have been applied to clinical practice, including diagnosis, surgery and rehabilitation.
- **Awards:** 4 best paper awards in national and international journals/conferences, technology innovation award for ‘intelligent human-in-the-loop rehabilitation method’.
What are the registration requirements?

- The program is exclusively open to the partners of Nankai University.
- Academic Areas: Computer Science, Electrical Engineering and Medical Engineering
- Language Requirements: sufficient English proficiency

Who are we recruiting?

- Full-time students from Nankai partner universities
- Undergraduate students who planned to apply for graduate students in AI discipline
- Graduate students who have the interest in AI discipline
- Students who are job-seeking in AI field

How do I register the program?

- Submit the registration form (attached) through email, to exchange@nankai.edu.cn
- Within 5 business days after the application submission, applicants will be informed with admission decisions by the admission team.

When is the deadline?

June 20th, 2021

What are other things I need to know?

- If the enrollment is less than 15 students, the program will be suspended this summer and would be re-open next winter/summer.
- We offer only 5 enrollment spaces for each partner university.
- Since spaces are limited, the admission will follow the principle of “first come first serve” if applicants meet the registration requirements.
CONTACT

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Tel: 86-22-23508632
Email: 019146@nankai.edu.cn

COST

Free
Thank you for your interest