

Carnegie Mellon THE ROBOTICS INSTITUTE



Master of Science - Computer Vision MSCV

August 2016 - December 2017 (16-month program)

Computer vision is the study of acquiring and interpreting visual imagery. As computer vision shifts from research to development, there is a critical need for developers with expertise in this field.

GOALS

- Offer a comprehensive set of courses
- Facilitate hands-on research and development projects
 - Expose students to current and emerging state-of-the-art Computer Vision applications
- Prepare students for careers in Computer Vision

COURSES

Introduction to Computer Vision
Introduction to Machine Learning
Mathematical Fundamentals for Robotics
Visual Learning and Recognition
Geometry-based Methods in Computer Vision

Electives (choose 2)

Human Communication and Multimodal Machine Learning
The Visual World as seen by Neurons and Machines
Comprehensive Sensing and Sparse Optimization
Large Scale Learning using Images and Text
Big Data approaches in Computer Vision
Human Motion Modeling and Analysis
Statistical Techniques in Robotics
Physics-based Methods in Vision
Probabilistic Graphical Models
Statistical Machine Learning
Convex Optimization
Vision Sensors

Project and Seminar Courses

MSCV Seminar MSCV Project I MSCV Project II

ADMISSION AND APPLICATION

Requirements: Undergraduate (B.S. or equivalent) in engineering, computer science or applied mathematics

Application Materials

- Résumé • General GRE
- TOEFL / IELTS (Foreign Students only)
- Statement of Purpose (1 to 2 pages)
- Letters of Recommendation (3 Required)
- Undergraduate/Graduate (as applicable) Transcripts

Only online applications will be accepted.

Early application deadline: December 3, 2015

Final application deadline: December 15, 2015

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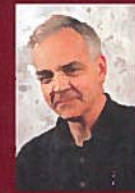
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