

Computer Vision and Image Processing

Computer Vision and Image Processing is a highly interdisciplinary area with various ongoing research projects including large-scale video analytics, video compression, and medical image analysis. The area has evolved to include the integration of Machine Learning, Optimization, and Medical Imaging with a strong emphasis on solving large-scale problems in image and video analysis and communications.

Area Chair:

Prof. Marios Pattichis (<https://ece.unm.edu/faculty-staff/electrical-and-computer/marios-pattichis.html>).

Faculty Members:

Prof. Marios Pattichis
(<https://ece.unm.edu/faculty-staff/electrical-and-computer/marios-pattichis.html>).

Prof. Manel Martinez-Ramon
(<https://ece.unm.edu/faculty-staff/electrical-and-computer/manel-martinez-ramon.html>).

Prof. Ramiro Jordan (<https://ece.unm.edu/faculty-staff/electrical-and-computer/ramiro-jordan.html>)

Prof. Balu Santhanam (<http://ece-research.unm.edu/bsanthan/>)

Recommended courses:

1. ECE 533 Digital Image Processing
2. ECE 516 Computer Vision
3. ECE 510 Medical Imaging
4. ECE 517 Machine Learning
5. ECE 541 Probability Theory and Stochastic Processes
6. ECE 539 Digital Signal Processing
7. ECE 506 Optimization Theory
8. ECE 537 Foundations of Computing
9. ECE 633 Advanced Topics in Image Processing
10. ECE 551 Problems in Machine Learning
11. ECE 551/651 Problems
12. ECE 599 Master's Thesis
13. ECE 699 Dissertation

Other courses delivered as Special Topics (ECE 595) may become available per semester. Please contact the Area Chair or the faculty members for further information.