College of
ENGINEERING & COMPUTING

School of Computing and Information Sciences

RESEARCH

SCIS faculty pursue a diverse collection of research and technology transfer opportunities designed to advance computer science and information technology. SCIS researchers take a multi-disciplinary approach to solving both theoretical and applied computing problems. The school's approach has also grown from traditional computer science themes such as algorithmic analysis and computer language development to one which embraces the integration of computing in fields like computational sciences, bioinformatics, disaster management, GIS as well as cutting edge technology topics like cloud computing, social networks, cybersecurity, and highly reliable systems.

FACULTY

Our world renowned faculty are recognized leaders in research and education. S. S. Iyengar, school director, is member of the European Academy of Sciences and a fellow of ACM, IEEE, AAAS, AIMBE and NAI. Mark Weiss is a recipient of the IEEE Computer Society Taylor L. Booth Education Award. Weiss is principal investigator of a new $5 million FIU-led National Science Foundation S-STEM grant award, with partners at UCF and USF, that provides hundreds of scholarships to students studying computing over the next five years. Shu-Ching Chen is as a fellow of the AAAS, IEEE and SIRI and editor-in-chief of IEEE Multimedia magazine. He is a co-principal investigator of a $5 million NSF Center for Research Excellence in Science and Technology where he focuses on big data analysis of environmental impacts.

PARTNERSHIPS

SCIS partners with institutions and companies worldwide to pursue joint R&D, publish scientific findings, and provide student training. We collaborate with prestigious facilities such as IBM Thomas J. Watson Research Center, Lawrence Livermore National Laboratory, Sandia National Laboratories, Oak Ridge National Lab. The school engages leading educational institutions such as: Cornell University, Purdue University, Indian Institute of Science, Tsinghua University, Chinese Academy of Sciences, Federal University of Sao Carlos (UFSCar), University of Campinas (UNICAMP), Polytechnic University of Poland. The school partners with Facebook, Farelogix, Google, Intel, Microsoft, Verizon, and Ultimate Software to strengthen the pipeline of talent pursuing CS/IT degrees.

GRADUATE DEGREES OFFERED

- Ph.D in Computer Science
- M.S. Data Science
- M.S. Cybersecurity
- M.S. Computer Science
- M.S. Information Technology
- M.S. Telecommunications and Networking

RESEARCH HIGHLIGHTS

- Big data/cloud computing
- Software engineering
- Bioinformatics and computational biology
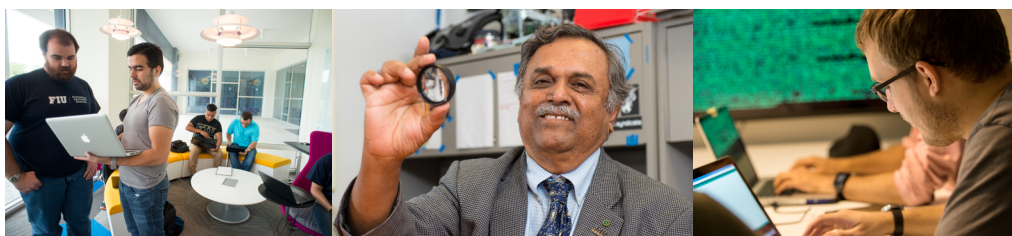- Computer science education research

GRADUATE RESEARCH OPPORTUNITIES

- Intelligent systems, including artificial intelligence, machine learning, neural networks, affective computing, intelligent user interfaces, health informatics, database management systems, and formal methods.
- Cybersecurity, trustworthy computing, sensor and computer networks, including network protocols, multimedia networking, robotics and wireless communications

FACILITIES

Integrated Computer Augmented Virtual Environment (I-CAVE): An open laboratory dedicated to creating virtual reality experiences for research, creative projects, learning exploration and data visualization.

FIU Discovery Lab: Designed to mentor and assist student teams engaged in creating innovative solutions to challenging societal problems

POINTS OF PRIDE

4th
most Computer Science degrees
(inside colleges of engineering)*

3 IEEE Fellows*

4 ACM
Distinguished Educators/Scientists*

5 NSF
Career Awards*

*cis.fiu.edu