Faculty

Marvin Andujar, Assistant Professor, brain-computer interfaces, drones.
Shaun Canavan, Assistant Professor, computer vision, affective computing.
Sriram Chellapand, Associate Professor, socio-technical systems.
Ken Christensen, Professor and Associate Chair of Undergraduate Affairs, energy efficient networks.
Suey-Chun (Roger) Fang, Instructor II, data modeling and information systems.
Alessio Gaspar, Associate Professor, evolutionary algorithms and education research.
Dmitry Goldgof, Professor and Vice Chair, medical image analysis and computer vision.
Lawrence Hall, Distinguished University Professor, intelligent systems and data mining, AI.
William Hendrix III, Instructor and CSI/CpE Program Coordinator, graph algorithms and parallel computing.
Isabela Hidalgo, Instructor I, human-computer interaction.
Adriana Iamnitchi, Professor, distributed systems and computational sociology, AI.
Henrick Jeanty, Instructor I, technical analysis algorithms.
Robert Karam, Assistant Professor, hardware security and reconfigurable computing.
Rangachar Kasturi, Douglas W. Hood Professor, computer vision and pattern recognition.
Srinivas Katkoori, Associate Professor, low power VLSI synthesis.
Valentina Kurzhova, Instructor I, computer vision.
Miguel Labrador, Professor and Associate Chair of Graduate Affairs, computer networks and ubiquitous sensing.
John Licato, Assistant Professor, computational modeling of cognitive reasoning, AI.
Jay Ligatti, Associate Professor, software security and programming languages.
Yao Liu, Assistant Professor, network security and wireless technologies.
Mehran Mozaffari Kermani, Assistant Professor, crypticographic engineering.
Xinming (Simon) Ou, Associate Professor, cyber security and cyber physical systems.
Rafael Perez, Professor, artificial intelligence and neural networks.
Les Piegl, Professor, geometric modeling and computer graphics.
Paul Rosen, Assistant Professor, data visualization and computer graphics.
Sudeep Sarkar, Professor, Department Chair, and AVP for USF I-Corps Programs, computer vision and biometrics.
Schinnel Small, Instructor I and IT Program Coordinator, programming languages and visual analytics.
Yu Sun, Associate Professor, intelligent systems, robotics, cyber physical systems.
Ralph Tindell, Instructor I, mathematics and computer science.
Yicheng Tu, Associate Professor, database systems and multimedia systems.
Phil Ventura, Instructor II, pedagogy of object orientation.
Jing Wang, Instructor II, computer animation and K-12 outreach.
Alfredo Weitenfeld, Professor, cognitive robotics and humanoid robots.
Yan Zhang, Instructor I, congestion control and energy optimization.
Hao Zheng, Associate Professor, system verification and validation.

Leadership

Sudeep Sarkar, Chair.
Dmitry Goldgof, Vice-Chair
Ken Christensen, Associate Chair of Undergraduate Affairs
Miguel Labrador, Associate Chair of Graduate Affairs

Advising

William Hendrix III, CSI/CpE Program Coordinator
Schinnel Small, IT Program Coordinator
John Morgan, Undergraduate Advisor

Staff

Laura Owczarek, Academic Services Administrator.
Gabriela Franco, Graduate Program Specialist
Lashanda Lightbourne, Undergraduate Program Specialist
Mayra Morfin, Undergraduate Program Specialist

The Bachelor of Science degree program in Computer Engineering is accredited by the Engineering Accreditation Commission of ABET.

The Bachelor of Science degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET.

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www.usf.edu/engineering/cse
• The most recent US News & World Report ranked our Computer Engineering program in the 48th place among public universities and 77 out of 134 among all universities, public and private.
• The graduate Masters of Science in Information Technology program was ranked #14 for online IT programs by the 2016 US News & World Report.
• Research expenditures for fiscal year 2016/2017 totaled $2.6 million. This is above the national norm of $100,000 per tenure-track faculty of a public institution with 20-35 tenure-track faculty (2016 Taulbee Survey, CRA).

The Department was ranked in the top one-third of all Computer Science programs by Research Quality in the 2010 National Research Council data-

USF CSE is in the top 16.5% (rank 30) of Computer Science departments at US public universities. (According to Academic Analytics 2016 based on Scholarly Research Index using default weights for grants, articles, conferences, awards, and citations)

The most recent US News & World Report ranked our Computer Engineering program #18, Computer Science program #26, and Information Technology program #27.

The graduate Masters of Science in Information Technology program was ranked #14 for online IT programs by the 2016 US News & World Report.

Research Benchmarks

University of South Florida National Median

2016-2017 Degrees Awarded

BS in Computer Science (117)
BS in Computer Engineering (50)
BS in Information Technology (89)
MS in Computer Science (65)
MS in Computer Engineering (12)
MS in Information Technology (8)
PhD in Computer Science and Engineering (5)

Faculty Research Areas

A.I. and Cognitive Computing

- Computer Vision and Pattern Recognition
- Artificial Intelligence and Machine Learning
- Robotics
- Human Computer Interfaces
- Affective Computing

Cybersecurity

- Trustworthy Computing
- Network Security
- Smart Bio-devices
- Hardware Security
- Biometrics

Efficient Computing Platforms

- Computing Architecture
- VLSI
- Ubiquitous Serving
- Distributed Computing
- Parallel Processing
- Biomedical Devices

Big-Data Algorithms

- Biomedical Imaging
- Machine Learning
- Databases
- Visualization
- Social Networks

Student Organizations

- Association for Computing Machinery (ACM)
- IEEE Computer Society (IEEE - CS)
- Microsoft Developers Network (MSDN)
- Society of Competitive Programmers (SCP)
- Society of Hispanic Professional Engineers (SHPE-Tech)
- Whitehatters Computer Security Club
- Women in Computer Science and Engineering (WiCSE)

Recent Grants

S. Chellappan, “Doctilo/Software Research Program,” Doctilo Institute
K. Christensen and R. Perez, “Collaborative Florida IT Pathways to Success,” NSF
D. Goldgof and H. Lall, “Radiomics of Lung Screening CT Images, “Moffit Cancer Center/NIH”
A. Iamnitchi, “CREAR: Socially Aware Distributed Systems,” NSF
M. Labrader, “Extending Smart Home Technology for Cognitively Impaired Veterans to Delay Institutionalization,” VA
M. Labrader, “An REU Site on Ubiquitous Sensing,” NSF
M. Labrader, “T-Corp Teams: Travel Assistant Device,” NSF
J. Lugati, “Practical Improvements to Network Security Infrastructure,” Impulse Point, LLC.
J. Lugati and D. Oliveira, “Collaborative Authoring for the Internet of Things,” Florida Center for Cybersecurity
J. Lugati and G. Smith, “Cyber Resilience for Injection Attacks,” Florida Center for Cybersecurity
Y. Liu, “Broadband High-Power Reactive Jamming Resistant Wireless Communication,” Department of the Army
Y. Liu, “Power Grid Topology Inference with a Blackbox for False Data Injection,” Griffl, Institute
Y. Ou, “CAREER: Reasoning under Uncertainty in Cybersecurity,” NSF
Y. Ou, “TWC SBE TIP: Medium: Bringing Artificial Intelligence into Cybersecurity,” NSF
Y. Ou, “Understanding and Quantifying the Impact of Moving Target Defense on Computer Networks,” AFOSR
G. Zhang, X. Du et al., “CRISP Type 2: Integrative Decision Making Framework to Enhance the Resiliency of Interdependent Critical Infrastructures,” NSF
P. Rosen, “CF21: DBBs: STORM: Spatio-Temporal Online Reasoning and Management of Large Data,” University of Utah/NSF
P. Rosen, “Fill Medium: Collaborative Research: Topological Data Analysis for Large Network Visualization,” University of Utah/NSF
P. Rosen, “Managing and Operating of the National Radio and Astronomy Observatory FY 2010-2016,” University of Utah/NSF
P. Sanberg, S. Sarker, M. Fountain, and V. McDowell, “3-CORPS Site at University of South Florida,” Catalyzing Research Translation,” NSF
S. Sarker, “Orchid Based Peripheral Organization of Audio-Video Events Using Pattern Theory,” NSF
S. Sarker, “Body-Worn Camera Video Analysis for Law Enforcement Assistance,” NSF
S. Sarker and M. Labrader, “Active Authentication Using User Activity Data Collected from Cellular Carriers,” DAPPS/NSF
Y. Sun, “EAGER: Characterizing Physical Interaction in Instrument Manipulations,” NSF
Y. Sun, “RI: Small: Functional Object-Oriented Network for Manipulation Learning,” NSF
Y. Tu, “CAREER: Enabling high-throughput data management in scientific domains,” NSF
Y. Tu, “Graphics Processing Unit-Based Data Management System Software,” NSF
A. Weitzel, “RI: Medium: Collaborative Research: Experimental and Robotics Investigations of Multi-Scale Spatial Memory Consolidation in Complex Environments,” NSF