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# CONTACT INFORMATION – EECS, COMPUTER SCIENCE DIVISION

## FACULTY

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## AFFILIATED FACULTY, VISITORS, AND JOINT APPOINTMENTS

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Professor
Ph.D., Computer science; Pennsylvania State University, 1982

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Research
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Co-Director, Networking and Security (NetSec) Lab
- Computer Networks
  - Internet Transport Protocols
  - Cellular/Wireless and Optical Networks
- Distributed Systems
  - Distributed Interactive Simulation

Other Experience
- Visiting Faculty Researcher, Cincinnati Bell Information Systems Inc., Summer 1994
- Consultant, Trendium Inc., 2000

Professional Activities
- Associate Editor, The Computer Journal- Oxford University Press
- Editor-in-Chief, Electronics- Digital Publishing Institute (MDPI)
- Editor-in-Chief, Journal of Telecommunications System & Management, OMICS Publishing
- Editorial Board Member: Journal of ISRN Communications and Networking, International Journal on Advances on Networks and Services, Journal of Information Technology and Software Engineering
- University Internet-2 Application Chair, 1998-2001
- Program Chair, 1st & 2nd Conference on Computer Simulation Methods and Applications, 1998 & 2000
- Technical Program Committee Member of many Conferences
- Guest Co-Editor, Journal of Simulation Practice & Theory, Special Issue on Simulation Methods and Applications, April 2002
- Served as Reviewer for 40 International Journals and IEEE/ACM Transactions

Honors & Awards
- UCF Research Incentive Award, 2004-05
- UCF Teaching Incentive Program Award, 1998-99, 2003-04 and 2009-10
- Excellence in Undergraduate Teaching Award, College of Engineering & Computer Science, 2013
- Distinguished Research Lecturer Award, College of Engineering & Computer Science, 2003
- Distinguished Researcher Award, College of Arts and Science, 1995

Ladislau Bölöni

Associate Professor
Ph.D., Computer Science; Purdue University, 2000

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Research
Networking and Mobile Computing Laboratory:
http://netmoc.eecs.ucf.edu

- Autonomous agents
  - Modeling of human behavior in social and cultural environments
  - Human-robot interaction
  - Mutable agents
  - Knowledge representation
- Cognitive architectures
  - Narrative reasoning
- Distributed and grid computing
  - Task scheduling and resource allocation
- Wireless networking
  - Sensor networks with mobile sinks and nodes

Other Experience
- Visiting Researcher, Hungarian Academy of Science 1994-95
- Infrastructure Architect, CPlane Inc. 2000-2002
- Visiting Researcher, Imperial College, London, 2011

Professional Activities
- Panel reviewer (NSF, NASA, NIH)
- Associate Editor, International Journal of Parallel, Emergent and Distributed Systems

Honors & Awards
- Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- NASA Software Award
Mainak Chatterjee

Associate Professor
Ph.D., Computer Science & Engineering; University of Texas at Arlington, 2002

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Research
NetMoC: http://netmoc.eecs.ucf.edu/
- Wireless Networks
  - Cognitive radio networks
  - Dynamic spectrum access
  - Ad hoc and sensor networks
  - 3G/4G, WiMax
- Applied economic theory
  - Pricing issues in wireless networks
  - Game and Auction theories
- Video Delivery
  - Video transport, QoE
  - IPTV, VoD,
  - Streaming media

Other Experience
- Faculty Fellow, Air Force Research Lab
- Consultant, NEC, ITT, and AFRL
- Research Intern, Nokia Research, 2001

Professional Activities
- Associate Editor, Pervasive and Mobile Computing
- Associate Editor, Computer Communications
- Founding Chair, ACM Workshop MoViD
- Secretary, IEEE Technical Committee of Cognitive Radio
- TPC Co-Chair: WoWMoM, ICCCN, ICDCN, AMOC
- TPC member: INFOCOM, DySPAN, ICC, PerCom

Honors & Awards
- Teaching Incentive Program Award, 2010
- Best paper award, IEEE Globecom 2008
- Young Investigator Program (YIP) Award, AFOSR
- Best dissertation award, CSE, UTA, 2002
- Best Summer Intern, Nokia Research, 2001

Niels da Vitoria Lobo

Associate Professor
Ph.D., Computer Science; University of Toronto, 1993

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Research
http://server.eecs.ucf.edu/~vision/faculty/nielslobo.html
- Computational Vision
  - Object Detection in Cluttered Backgrounds
  - Integral Image Based Curve Detection
  - Hand and Person Detection and Tracking
- Active Vision and Mobile Robotics
  - Automobile Lane Following
  - Obstacle Detection
  - Optical Flow and Affine Motion Integration
- User Interfaces and Graphical Modeling
  - Wristband Trackers
  - Games for Mathematics Education

Professional Activities
- Associate Editor, Image Vision and Computing
- Associate Editor, Machine Vision and Applications

Honors & Awards
- UCF Millionaire’s Club, UCF Office of Research, 2008
- Teaching Incentive Program Award, 1996

Active Funding
- Pictures Represent Opportunities For Inspiration In Tech $1.2M from National Science Foundation with Mubarak Shah, Juli Dixon, and Gina Gresham, to work with Orange County Public High Schools, 2007-2010
- Project GAUSS: $600K to work with Math Majors (co-PI), from National Science Foundation, 2008-2011
- REU in Computer Vision: $300K, National Science Foundation, co-PI
Damian Dechev

Assistant Professor Ph.D., Computer Science and Engineering; Texas A&M University, 2009

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Research
http://www.damiandechev.com

- Programming Techniques and Tools
- Practical Nonblocking Synchronization
- Exascale System Design and Analysis
- Model-based Program Design and Verification
- Multicore Programming and Program Analysis
- Design of Software Libraries

Other Experience
- Senior Member of Technical Staff, Sandia National Laboratories, Livermore, CA 2009-2010;
- Research Assistant, Texas A&M University, College Station, TX 2003-2009;
- Adjunct Faculty, University of Delaware, Newark, DE, 2001-2003;

Professional Activities
- Local Arrangements Chair, 7th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom), Orlando, FL, October 15-18, 2011;
- Referee for NSF Review Panel: March 2011, October 2010;

Honors and Awards
- Best Graduate Teaching Assistant, Texas A&M University (2007) and University of Delaware (2002);
- Adobe Industrial Affiliates Program Scholarship, Texas A&M University (2004);

Narsingh Deo

Professor and Charles N. Millican Eminent Scholar Chair Ph.D., Electrical Engineering; Northwestern University, 1965

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Research
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- Parallel Algorithms and Data Structures
- Computational Graph Theory
- Complex Networks
- Computational Complexity and Algorithms
- Large Networks
- Multicore Computation

Other Experience
- Professor Computer Science, Washington State Univ. 1977-86; Dept. Chair 1980-84
- Professor of EECS Program Chair, IIT, Kanpur 1971-77
- Member Tech. Staff, Jet Propulsion Lab 1966-71
- Burroughs Corp (Engineer/Senior Engineer) 1960-66
- Visiting Faculty: IBM, Watson Res. Center; Oak Ridge National Lab; ANU, Canberra; University of Illinois, Urbana; University of Nebraska; Lincoln; ETH, Zurich; I.I. Sc. Bangalore; IIT, Kharagpur; Chuo University, Tokyo; Monash Univ., Melbourne

Professional Activities
- Editorial Board, The Journal of Supercomputing
- Assoc. Editor, VLSI Design
- Program Committee, 32nd International Symposium on Mathematical Foundations of CS
- Program Committee, 8th International Conference on Innovative Internet Community Systems
- President, Forum for Interdisciplinary Math (2007-10)
- Editor, Proc. ACS Malta, Sept. 15-17, 2010
- Authored 4 books and over 250 refereed research papers; holds 3 patents.

Honors and Awards
- Apollo Achievement Award (NASA), 1969
- Fellow, IEEE
- Fellow, ACM
- Fellow, ICA
- UCF Distinguished Researcher, 1989
- Florida’s Governor’s Award for Science and Technology, 1989
- IEEE Distinguished Speaker, 1988-90
- UCF Research Incentive Award, 1996
- UCF Teaching Incentive Award, 1998
- UCF Excellence in Graduate Teaching Award, 2000
- Life-time- Contribution Award of Forum for Interdisciplinary Math, 2002
Hassan Foroosh

Associate Professor
2nd Affiliated faculty, Institute for Simulation & Training (IST), UCF
Ph.D., Computer Science; INRIA-University of Nice, France, 1996

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Research
Director, Computational Imaging Lab.: http://cil.cs.ucf.edu

- Video Surveillance and Camera Networks
  - Tracking in Video Camera Networks
  - Video Activity Recognition and Monitoring
  - Video Analysis and understanding
  - Video Registration
  - Tracking Moving Targets on a Moving Platform
- Image-Based Modeling
  - Camera Network Calibration
  - 3D Modeling from Video/Image Data
  - Video-Based Motion Capture and Animation
  - Facial expression, Hand Gesture, and Text Recognition in Video
- Image Processing
  - Image Registration, Super-resolution (SAR, EO, IR, Hyper-spectral)
  - Compressed Sensing
  - Medical Image Processing

Other Experience
- Senior Research Scientist, UC Berkeley, 2000-2002
- Research Scientist, University of Maryland, College Park, 1997-2000

Professional Activities
- Associate Editor, IEEE Transactions on Image Processing, 2002-2008
- Session Chair CVPR, 2008
- Area chair, TPC member: ICIP, since 2002
- TPC member: CVPR, ICCV, since 2002

Honors & Awards
- Senior Member, IEEE
- IAPR Piero Zamperoni Award, 2004
- Academic Excellence Award, Sun, 2004
- Distinguished Researcher of EECS, UCF, 2005
- Distinguished Researcher of CECS, UCF, 2006
- IAPR Best Scientific Paper Award, 2008

Fernando Gomez

Professor
Ph.D., Computer Science; Ohio State University, 1981

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Research
http://www.eecs.ucf/~gomez

- Natural Language Understanding
- Lexical Semantics
- Lexical Ontologies
- Semantic Interpretation
- Machine Learning applied to natural language processing
- Artificial Intelligence
- Common Sense Knowledge
- Knowledge Representation
- Knowledge Acquisition

Other Experience
- Lead project design for the NASA project on intelligent information retrieval

Professional Activities
- Program Committee of ACL-04, ACL-06, AC-07, ACM CIKM-07, and CIKM-08
- Reviewer for several journals, NASA, NSF
Avelino J. Gonzalez

Professor
Ph.D., Electrical Engineering; University of Pittsburgh, 1979

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Research
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- Artificial Intelligence
- Human Behavior Representation in Tactical Solutions
- Contextual Reasoning
- Machine Learning
- Knowledge-Based Systems
- Automated Diagnostics
- Intelligent Simulations
- Validation and Verification of Knowledge-Based Systems

Other Experience
- Interim Chair, Civil and Environmental Engineering Department, University of Central Florida, 2005-2007.

Professional Activities
- Founding President (1998-1990), current Treasurer (since 1993), Florida Artificial Intelligence Research Society
- Member, IEEE

Ratan K. Guha

Professor
Ph.D., Computer Science; University of Texas, 1970

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Research
Co-Director, Distributed Computing and Networking Lab: http://www.eecs.ucf.edu/~guha

- Distributed Systems
- Computer Networks
- Cyber Security
- Modeling and Simulation

Other Experience
- Assistant Professor (1970 -1976), Associate Professor (1976 – 1980), Acting Chairman (1979) – Southern Illinois University
- Research Associate, University of Texas at Austin, 1973
- Member of Technical Staff, Bell Labs., 1979-80
- Consultant, WISE, Inc. (1985)
- Visiting Professor, Beijing University (1985)
- Tokten Consultant to United Nation Development Programme (1987)

Professional Activities
- General Chair, 1st & 2nd Conference on Computer Simulation Methods and Applications, 1998 & 2000
- Technical Program Committee Member and Reviewer of many Conferences
- Guest Co-Editor, Journal of Simulation Practice & Theory, Special Issue on Simulation Methods and Applications, April 2002
- Associate Editor: Modeling and Simulation in Engineering, Hindawi Publishing Corporation.
Mark Heinrich

Associate Professor
Ph.D., Electrical Engineering; Stanford University, 1998

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Research
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- Parallel Computer Architecture
- Energy-efficient architectures
- Multicore Hardware/Software Co-Design
- Cloud-based Mobile and Web Services
- Active Memory and I/O Systems
- Scalable Cache Coherence Protocols

Other Experience
- Director, School of Computer Science, UCF, 2005
- Associate Director, School of EECS, UCF, 2005-07
- Founder, CTO, Phanfare Inc., 2004-2011, Acquired by Carbonite, August 2011
- Assistant Professor, ECE, Cornell University, 1998-2002

Professional Activities
- Senior Member, IEEE
- Member ACM
- Reviewer NSF, various IEEE and ACM Conferences (ISCA, ASPLOS, HPCA, MICRO, PACT)
- Program Committee and Workshop Chair, HPCA

Honors & Awards
- Over 1,500 citations on Google Scholar
- IBM Faculty Award, 2004
- NSF CAREER Award, 2000-2004
- “The Stanford FLASH Multiprocessor” selected as one of best papers in 25 years of ISCA (766 citations)
- Cornell University College of Engineering’s Michael Tien ’72 Excellence in Teaching Award, 2001
- Cornell University IEEE Teacher of the Year, 1999-2000
- NSF Graduate Fellow, 1991-94
- Graduated 1st in class, Duke University, EE/CS, 1991

Haiyan (Nancy) Hu

Assistant Professor
Ph.D.; University of Southern California, 2006

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407-882-0134

Research
http://www.cs.ucf.edu/~haihu

- Bioinformatics and Computational Biology
- Integrative Approaches to Indentifying Phenotype Specific Pathways and Networks
- Motif Discovery and Regulatory Network Interface
- Gene/Protein Function Prediction
- Large-scale Genomic Data Integration
- Computational Epigenomics
- Data Mining and Machine Learning algorithms

Other Experience
- Research Assistant Professor, Indiana University 2006-2008

Professional Activities
- Guest Editor, Journal on Bioinformatics and Systems Biology
- Editorial Board of The International Journal on Bioinformatics and Biotechnology
- Reviewer for Pattern Recognition, Neural Networks, Genomics, Bioinformatics, IEEE International Conference on Bioinformatics and Biomedicine, IEEE conference on Decision and Control
- Panelist for National Science Foundation (2009, 2012)
- Panelist for The American Association for the Advancement of Science (2012)
- Local Arrangement chair of ACM BCB conference (2012).

Honors and Awards
- NSF CAREER Award, 2012
Kien A. Hua

Professor
B.S., Computer Science; M.S. & Ph.D., Electrical Engineering
University of Illinois at Urbana-Champaign, 1982, 1984, 1987

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kienhua@eecs.ucf.edu
407-823-5342

Research
Director, Data Systems Lab: http://dsg.eecs.ucf.edu/
- **Data Management**
  - Image and Video Retrieval, Live Video Management
    Systems for Surveillance Applications, Sensor and
    RFID Databases, Moving Object Databases, Cloud
    Data Management
- **Data Analysis**
  - Multidimensional Data Analysis, Medical Imaging,
    Intelligent Transportation Systems
- **Data Communications**
  - Video Communications, Wireless Communications,
    Vehicular Networks
- **Data Security and Privacy**
  - Security in ad hoc networks, Privacy in Video
    Surveillance, Location-based Services, and Mobile
    Computing

Other Experience
- Advisory Engineer and Lead Architect of a Parallel
  Computer Project, IBM Mid-Hudson Laboratories

Professional Activities
- Associate Editor, Journal of Multimedia Tools and
  Applications, and International Journal of Advanced
  Information Technologies.
- Conference Chair, Track Chair, Program Vice Chair,
  Technical Program Committee Member of numerous
  IEEE and ACM Conferences
- 240 refereed publications

Honors & Awards
- IEEE Fellow
- One of ten most cited researchers at UCF
- 11 Top/Best Paper Recognitions at international
  conferences and a journal
- Best Presenter Awards at two international
  conferences
- UCF College of Engineering & Computer Science
  Distinguished Lecturer
- UCF Teaching Incentive Awards (three times)
- UCF Research Incentive Award

Charles E. Hughes

Professor
Secondary Appointment: Professor, Digital Media; Affiliate
faculty, IST
Ph.D., Computer Science; Penn State University, 1970

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ceh@cs.ucf.edu
407-823-2762

Research
Co-Director, Synthetic Reality Lab: http://sreal.ucf.edu
Affiliate, Graphics Lab: http://graphics.cs.ucf.edu
Affiliate, Computational Imaging Lab: http://cil.cs.ucf.edu
- **Mixed and Virtual Reality**
  - Real-time chroma-keying in noisy environments
  - Real-Time Material Design
  - Teacher preparation, free choice learning, peer
    pressure resist/avoid strategies, rehabilitation
  - Digital heritage in the delivery of STEM content
- **Human-Computer Interaction**
  - Human surrogates (virtual and physical avatars)
  - Multi-touch interfaces

Other Experience
- Professor, Computer Science, Univ. of Tenn., 1974-80
- Assistant Professor, Comp. Sci., Penn State, 1972-74
- NRC Postdoctoral Research Associate, 1971-72

Professional Activities
- Entertainment Computing, Associate Editor, 2011-
- Journal of Cybertherapy and Rehab Editorial Board
- IEEE VR 2012/2013 Program Committee
- IEEE VR 2013, co-chair, Research Demos
- HCII Program Committee, 2008-
- ISMAR 2009 Tutorial Chair; Program Committee, 2009-
- Eurographics 2008 Short Papers Program Committee.
- Reviewer for NSF, and various journals and conferences
- Over 160 refereed publications.
- PI/co-PI on $6M in active grants; over $2.2M in credit.

Honors & Awards
- 2012 UCF Fellow of the Academy for Teaching, Learning
  and Leadership
- Senior Member, IEEE & ACM
- Pegasus Professor, UCF 2007
- Undergraduate Teacher of the Year, UCF 2001
- Excellence in Undergraduate Teaching, UCF 2001, 1992
- Research Incentive Award, UCF 2007, 1996
- Teaching Incentive Award, UCF 2009, 2002, 1995
Sumit Kumar Jha
Assistant Professor
Charles N. Millican Faculty Fellow
Ph.D., Computer Science; Carnegie Mellon University, 2010
MS, Computer Science, Carnegie Mellon University, 2009
B.Tech. (Honors), Computer Science and Engineering, IIT Kharagpur, 2004
Certificate in Quantitative Finance (CQF), 2012

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407-882-2215

Research
http://www.eecs.ucf.edu/~jha

- Stochastic and Hybrid Systems
- Randomized and Parallel Algorithms
- Computational Modeling and Validation
- Computational Systems Biology
- Computational Finance

Professional Activities
- Program Committee, IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS), 2013
- Program Committee, IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS), 2012
- Program Committee, ACM Conference on Bioinformatics, Computational Biology and Biomedicine (ACM BCB), 2012
- Local Arrangements Chair, IEEE Conference on Computational Advances in Bio and Medical Sciences, 2011
- Program Committee, Constraints in Formal Verification, 2011
- Member, Alpha Quant Club, 2010-2011
- Invited Speaker, BioPathways Workshop, International Conference on Systems and Molecular Biology, 2010

Honors and Awards
- IEEE ICCABS Best Paper Award, 2010
- Carnegie Mellon Fellowship, 2004-2010
- Travel Award for paper accepted at Computational Methods in Systems Biology (CMSB), 2008
- ACM Travel Award for paper accepted at Conference on Hybrid Systems Computation and Control (HSCC), 2006

Sheau-Dong Lang
Associate Professor
Ph.D., Mathematics; Pennsylvania State University, 1979
MS, Computer Science; Pennsylvania State University, 1981

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407-823-2474

Research
http://www.cs.ucf.edu/csdept/faculty/lang

- Analysis of Algorithms
- Informational Storage and Retrieval
- Knowledge-Based Simulation
- Digital Forensics
- Network Security

Other Experience
- Information Technology Undergraduate Program Director, 2003 – 06
- Graduate Program Coordinator, Graduate Certificate in Computer Forensics, 2001 – present
- Graduate Program Coordinator, Master of Science in Digital Forensics, 2008 – present

Professional Activities
- Workshop Co-Chair, IEEE Workshop on Cybercrime and Computer Forensics, 2008, 2009
- External Program Reviewer, Computer Science program, The University of the West Indies, St. Augustine and Cave Hill campuses, 2007
- Volunteer, Computer Crimes Squad, Orange County Sheriff’s Office, 2006 – present

Honors & Awards
- Orange County Sheriff’s Citation for outstanding services, 2005
- Outstanding Engineer Award, Computer Chapter, IEEE Orlando Section, 1998
- Teaching Incentive Program Award, College of Arts & Sciences, UCF, 1995-96
Joseph J. LaViola Jr.

CAE Link Professor and Associate Professor
Ph.D., Computer Science; Brown University, 2005
Sc.M., Applied Mathematics; Brown University, 2001

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407-882-2285

Research
Interactive Systems and User Experience Lab:
http://www.eecs.ucf.edu/isuelab

- Pen-based user interfaces
- 3D user interfaces
- Usability analysis

Other Experience
- Adjunct Assistant Professor of Research, Brown University, 2006-Present
- Founder, Fluidity Software, Inc., Somerville, MA, 2006-Present
- Founder, JJL Interface Consultants, Inc., Oviedo, FL, 2000-Present

Professional Activities
- Senior Member, ACM, IEEE Computer Society
- Program Chair, IEEE Virtual Reality 2013

Honors & Awards
- UCF Research Incentive Award, 2012
- NSF CAREER Award, 2009

Research Grants

Selected Publications

Gary T. Leavens

Professor and Chair, CS Division
PhD, Electrical Engineering & Computer Science; Massachusetts Institute of Technology, 1989

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407-823-4758

Research
http://www.eecs.ucf.edu/~leavens

- Formal Methods in Software Engineering
  - Specification of OO software components
  - Design of JML (see www.jmlspecs.org).
  - Theory of behavioral subtyping and specification inheritance.
- Programming Languages
  - Design and semantics of aspect-oriented programming languages.
  - Theory and design of multiple dispatch languages, including MultiJava (see www.multijava.org).

Other Experience
- Professor, Iowa State University 1989-2007
- Member of Technical Staff, Bell Labs, 1977-84

Professional Activities
- General Chair, SPLASH 2012 conference
- Program Co-chair, VSTTE 2010 conference
- Research Program Chair, OOPSLA 2009 Conference
- Co-editor-in-chief: Transactions on Aspect-Oriented Software Development (Springer)
- Associate Editor: Journal of Object Technology
- Assistant Editor, Software and Systems Modeling
- Co-organizer of three international workshop series:
  - Foundations of Aspect-Oriented Languages
  - Specification and Verification of Component-Based Systems
  - Formal Techniques for Java-Like Languages

Honors & Awards
- Upsilon Pi Epsilon honor society, 2011
- “Memorable Teacher”, College of LAS, Iowa State Univ., 2007
- Senior Member of the ACM, 2007
- Senior Member of the IEEE Computer Society, 2000
- IEEE Distinguished Visitor Program Speaker 2003-2005
Dan C. Marinescu

Professor
Ph.D., Electrical Engineering and Computer Science; Polytechnic Institute, Bucharest, 1975

Contact
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407-823-4860

Research
Scientific Director, I² Lab:  http://i2lab.ucf.edu

- Scheduling
- Workflow Management and Grid Computing
- Parallel Algorithms and Performance Evaluation of Parallel and Distributed Systems
- Quantum Computing and Quantum Information Theory
- Computer Clouds

Other Experience
- Professor of Computer Science at Purdue University from 1984-2001
- Associate Professor of EECS, Polytechnic Institute
- Senior Researcher, Institute for Atomic Physics of the Romanian Academy of Science.
- Adjunct Professor, Tsinghua University, Beijing
- Visiting Faculty at:
  - IBM Research in Yorktown Heights, New York, 1985
  - Intel in Portland, Oregon, 1993
  - Deutsche Telecom in Bonn, 1996
  - Multi-Media Systems in Dresden, Germany
  - Institute for Information Sciences, Beijing, P.R. China, 1992
  - GSI, Darmstadt, Germany
  - UTFSAM Valparaiso, Chile

Honors & Awards
- Author of “Approaching Quantum Computing” which was co-authored with Gabriela M. Marinescu and was awarded the prize of the Romanian Academy of Science for Informatics in 2004.
- Ernest T.S. Walton Award, Science Foundation of Ireland, 2007
- Fulbright Expert

Ali Orooji

Associate Professor and Undergraduate Program Coordinator
Ph.D., Computer and Information Science; The Ohio State University, 1984

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orooji@eecs.ucf.edu
407-823-5660

Research
http://www.cs.ucf.edu/csdept/faculty/orooji.html

- Database Systems
- Software Engineering

Other Experience
- CS/IT Undergraduate Coordinator and Undergraduate Committee Co-Chair, School of EECS, 2006 – Present.
- Computer Programming Team Faculty Advisor, 1989 – present.
- Local chapter of UPE Faculty Advisor, 1991 – present.

Professional Activities
- ACM-ICPC International Steering and Executive Committee Member, 1998 – present.
- Int’l UPE Executive Council Member, 2000 – present.

Honors & Awards
- Outstanding Engineer Award, Computer Chapter, IEEE Orlando Section, 1995.
- Excellence in Undergraduate Teaching Award, College of Arts & Sciences, UCF, 1998.
- Presidential Award for Special Merit (for Exceptional Professional Achievements), UCF, 2000.
- ACM-ICPC Measures Distinguished Service Award, Selected 2008; Award of Excellence, March 2008; and Distinguished Service Award, 2000.
- ACM-ICPC Award, Southeast Regional
- ACM-ICPC Award, World Contest Finals
Sumanta Pattanaik

Associate Professor
Ph.D., Computer Science; Birla Institute of Technology and Science, Pilani, India, 1993

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407-823-2638

Research
Computer Graphics Lab: http://graphics.eecs.ucf.edu/

- Real-time Realistic Rendering, Material Modeling
- Nature Rendering
- Interactive Global Illumination
- High Dynamic Range Imaging & Display

Other Experience
- Visiting Faculty, Computer Science Department, Yale University, Fall 2008; and Computer Science Department, University of Girona, Spain, Spring and Summer 2009.
- Research Associate, Program of Computer Graphics, Cornell University, 1995-2001
- Senior Staff Scientist, National Center for Software Technology (NCST), Bombay, India, 1985-95
- Scientific Officer, Bhabha Atomic Research Center (BARC), Bombay, India, 1980-85

Professional Activities

Honors & Awards
- UCF TIP Award, 2011.

Active Grants
- NSF Grant- 2011-2014: A Unified Approach to Material Appearance Modeling
- DoD STTR Phase 2: 2011-2013. Innovative Application of Urban ISR Imagery for High Fidelity Training Devices

Recent Book

Mubarak A. Shah

Agere Chair Professor
2° Joint Appointment in College of Optics and Photonics
2° Joint Appointment in Department of Mathematics
Ph.D., Computer Science; Wayne State University, 1986

Contact
shah@eecs.ucf.edu
407-823-5077
Assistant: Cherry Place 407-823-6595

Research
Center for Research in Computer Vision: http://crcv.ucf.edu/

- Video Surveillance and Monitoring
  - Visual Tracking
  - Scene and Object Recognition
  - Human Activity Recognition
  - UAV Video Analysis
- Video Registration
- Video Categorization and Segmentation
- 3D reconstruction
- Content-based Video Retrieval

Professional Activities
- Editor-in-Chief, Machine Vision & Applications, Springer
- Associate Editor ACM Computing Surveys
- Program Co-Chair, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2008

Honors & Awards
- 2012 University Excellence in Research Award
- 2011 CECS Advisory Board Award for Faculty Excellence
- Scholarship of Teaching and Learning Award, 2011
- Fellow, IEEE (2003), AAAS (200), IAPR (2008), SPIE, 2008
- UCF Distinguished Researcher Award, 2007
- SANA Award, 2007
- Pegasus Professor Award, 2006
- UCF Research Incentive Award, 2003, 2009
- ACM Distinguished Speaker (DSP), 2008-.
- IEEE Distinguished Visitors Program Speaker, 1997-2000
- Engineering Achievement Award, Harris Corp. Information Systems Div., 1999
- Outstanding Engineering Educator, IEEE 1997
- UCF Teaching Incentive Program Award, 1996, 2003
Kenneth O. Stanley

Associate Professor
Ph.D., Computer Science; University of Texas at Austin, 2004

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kstanley@eecs.ucf.edu
407-823-4289

Research
Evolutionary Complexity Group: http://eplex.cs.ucf.edu/

- Inventor, NeuroEvolution of Augmenting Topologies (NEAT), HyperNEAT, and Novelty Search Algorithms
- Artificial Intelligence (AI) and Machine Learning (ML)
- Evolutionary Computation
- Artificial Neural Networks (ANNs)
- Neuroevolution: Evolving ANNs with Evolutionary Algorithms
- Generative and Developmental Systems
- AI and ML in Video Games and Real-time Simulations

Professional Activities
- Executive Committee of the ACM Special Interest Group on Genetic and Evolutionary Computation (ACM SIGEVO), since 2011
- Editorial Board of Evolutionary Computation Journal, since 2010
- Associate Editor of IEEE Transactions on Computational Intelligence and AI Games, since 2008
- Founder and Editor in Chief of aigameresearch.org, a peer-reviewed repository for AI-based research-related games, since 2012.
- Vice Chair of the IEEE CIS Technical Committee on Games

Honors & Awards
- UCF Research Incentive Award (RIA), 2012
- ACM Distinguished Speaker, named September 2011
- UCF Teaching Incentive Program (TIP) Award, 2011
- 2008 DARPA Computer Science Study Group (CSSG)
- Outstanding Graduate Teaching Award (School of EECS), 2008
- Finalist, 2010 Indie Game Challenge (12 of 250 independent games were chosen)
- Best Student Video Award (Supervised), Twenty-Second Conference on Artificial Intelligence (AAAI-07)

Gita R. Sukthankar

Assistant Professor
Ph.D., Robotics; Carnegie Mellon University, 2007

Contact
gitars@eecs.ucf.edu
407-823-4305

Research
http://www.eecs.ucf.edu/~gitars/

- Multi-agent systems
- Machine learning
- Activity/plan recognition for:
  - Games and simulation systems
  - Assistive technologies
  - Human-robot interaction
- Social-computational systems

Other Experience
- HP Labs - Cambridge Research Laboratory
  Member of Research Staff, 2000–2003

Professional Activities
- General chair, AAAI Conference on AI and Interactive Digital Entertainment (2013)
- Program chair, AAAI Conference on AI and Interactive Digital Entertainment (2012)
- Organizing Committee, AAAI Workshop on Plan, Activity, and Intent Recognition (PAIR 2009-2013)
- Doctoral Mentoring Co-Chair, AAMAS 2010

Honors & Awards
- UCF Faculty Excellence for Doctoral Mentoring (Engineering and Sciences) (2012)
- IEEE Senior Member (2012)
- CECS Distinguished Researcher (asst professor), 2010
- Charles N. Millican Faculty Fellow, 2010, 2012
- DARPA Computer Science Study Group, 2009, 2010
- NSF CAREER, 2009
- Air Force Young Investigator Program, 2009
- ONR Summer Faculty Fellow (2008)
Marshall Tappen

**Associate Professor**  
Ph.D., Computer Science; Massachusetts Institute of Technology, 2006

**Contact**  
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407-823-2688

**Research**  
http://www.eecs.ucf.edu/~mtappen

- **Computer Vision**
- **Image Processing**
- **Statistical Machine Learning**

**Key Inventions**
- Algorithms for detecting and removing shadows in images.
- Real-time, GPU-based systems for sharpening blurry images.
- Systems for recognizing objects based on a small number of examples.
- Face recognition systems that leverage social networks to dramatically increase recognition accuracy.

**Funding Agencies**
- National Science Foundation
- Department of Homeland Security
- National Geo-Spatial Intelligence Agency

**Professional Activities**
- Local Arrangements Chair for the 2009 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- Program Committee Member for the IEEE International Conference on Computer Vision (ICCV) for multiple years
- Program Committee Member for the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) for multiple years

**Honors & Awards**
- Department of Defense NDSEG Fellowship – 2002
- UCF Teaching Improvement Program Award winner – 2011
- Principal investigator on multiple SBIR and multi-organization NSF grants, including partners such as MIT and UC-Berkeley

Damla Turgut

**Associate Professor**  
Ph.D.; University of Texas at Arlington, 2002

**Contact**  
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**Research**  
http://www.eecs.ucf.edu/~turgut/

- **Wireless networks and ubiquitous computing**
  - Modeling and enhancing the stealth level in intruder tracking sensor networks
  - Sensor networks with mobile sinks
  - Ad hoc and vehicular ad hoc networks
  - Underwater sensor networks
  - Cognitive radio networks
- **Autonomous Agents**
  - Wireless communication and coordination in embodied agents
  - Agent teamwork

**Other Experience**
- Visiting Researcher: University of Rome – La Sapienza, Italy (2012); Imperial College, London, UK (2011)
- Assistant Instructor, Dept. CSE, UT Arlington, ‘99-‘02.
- Faculty Associate, CAESAR, UT Arlington, ‘97-‘98.

**Professional Activities**
- Panel Reviewer: NSF, European Young Investigator Award Scheme (EURYI), Research Grant Council (RGC) of Hong Kong, Department of Energy Office of Science Graduate Fellowship (DOE SCGF) Program (CS)
- Associate Editor: IEEE TPDS, Ad Hoc Networks
- TPC Chair/Co-Chair: IEEE CCNC, GlobeCom, LCN, PerSeNS, N2Women
- External PhD examiner in Australia and Canada
- Judge on county and state fair in science and engineering

**Honors & Awards**
- 2011 College Excellence in Professional Service Award
- UCF Teaching Incentive Program (TIP) Award, 2010
- Research funding from NSF (IIS, UCF-STEP), US Army PEO STRI through JTIEC, and UCF In-House.
- Outstanding Research Award, UT Arlington, 2002
- Upsilon Pi Epsilon Honor Society, 1999
- Senior member, IEEE
Pawel Wocjan

Associate Professor
Ph.D., Karlsruhe Institute of Technology, 2003

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407-823-2844

Research
Interdisciplinary Research in Quantum Computing and Quantum Information Science; Design and Analysis of Algorithms
http://www.eecs.ucf.edu/~wocjan

• Classical and Quantum Algorithms
• Quantum Information Theory
• Mathematical Cryptography
• Algorithmic Number Theory and Algebraic Geometry
• Complexity Theory

Other Experience
• Postdoctoral Scholar in Computer Science, Institute for Quantum Information, California Institute of Technology, 2004-2006
• Research Assistant, Department of Computer Science, University of Karlsruhe, Germany, 1999-2004

Professional Activities
• Reviewer for National Science Foundation
• Panelist for National Science Foundation
• Reviewer for Journals on Quantum Computing and Quantum Information Theory

Honors & Awards
• National Science Foundation CAREER Award for “Algorithmic Approach to the Design of Novel Quantum Algorithms” in 2008
• UCF Research Incentive Award in 2011

Annie S. Wu

Associate Professor
Ph.D., Computer Science and Engineering; University of Michigan, 1995

Contact
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407-823-5922

Research
http://www.eecs.ucf.edu/~aswu

• Genetic Algorithms
• Evolutionary Computation
• Complex Adaptive Systems
• Multi-agent Systems

Professional Activities
• Editorial Board Member, Evolutionary Computation Journal
• Editorial Board Member, Journal of Genetic Programming and Evolvable Machines
• Program Co-Chair, Foundations of Genetic Algorithms X, January 2009
• Publicity Chair, 2008 Genetic and Evolutionary Computation Conference

Honors & Awards
• National Research Council Research Associateship Award
Shaojie Zhang

Assistant Professor
Ph.D., Computer Science; University of California, San Diego, 2007

Contact
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407-823-6095

Research
Computational Biology and Bioinformatics Group
http://www.eecs.ucf.edu/~shzhang

• Computational Biology
  • Computational Genomics
  • Computational RNA
  • Computational transcriptomics
  • Computational Epigenetics
  • Biological Sequence Analysis
• Combinatorial Algorithms
• Approximation Algorithms

Professional Activities
• Organizing Committee Member, RECOMB Satellite Conferences on Systems Biology and Computational Proteomics (2006)
• Associate Editor, Frontiers in Bioinformatics and Computational Biology
• Review Editor, Frontiers in Non-Coding RNA
• Reviewer for Israel National Foundation, Austrian Science Fund, and Fonds de recherche du Québec – Nature et technologies

Honors & Awards
• Best Paper Award, IEEE ICCABS 2012
• J. Craig Venter Institute Summer Fellowship, 2006
• California Institute for Telecommunications and Information Technology (CalIT2) Fellowship, 2001

Cliff C. Zou

Associate Professor
Ph.D., Electrical & Computer Engineering; University of Massachusetts-Amherst, 2006

Contact
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Research
Computer and Network Security:
http://www.eecs.ucf.edu/~czou/

• Editorial Board Member: IJAHUC, SCN
• Local Arrangement chair: ANCS (2007), ICNP (2008), Ubicomp (2009), Multimedia (2014)
• Programme Committee Member for dozens of conferences
• Senior Member: IEEE

Honors & Awards
• Best Student Paper Award in conference ACSAC 2007.
• Publications have more than 3000 citations according to Google Scholar Citation.
• Undergraduate research project "Personal Medication Monitor" won the first prize in the first annual UCF Inventing Entrepreneurs Innovation Competition (reported by UCF News).
• Paper "Honeypot detection in advanced botnet attacks" published in IJICS(2010) was reported by EurekAlert! News Service and The Register, respectively.
• Rootkit work (paper published in Securecomm'08) was reported by PCWorld (05/09/2008).
• Research published in NDSS'06 reported by “New Scientist Magazine”, Mar. 4, 2006 189(2541), pg. 32.
• Best Paper Award runner-up in PADS 2005.
• Best Paper Award runner-up in ICCCN 2004.
• Interviewed by National Public Radio (NPR) on our Internet worm research, September 2003.