Core computing at the hardware/software interface.

Keywords

- 3D & Multiview Video
- 3D Graphics and Animation
- 3D Reconstruction
- 4th generation (4G) cellular networks
- 5G
- 5th generation (5G) cellular networks
- Accessibility research (including assistive devices)
- Adaptive and Learning Systems.
- Adaptive Control.
- Adaptive signal processing
- adaptive signal processing
- agent-based systems
- Allocation and scheduling on distributed systems
- Ambient-Based Patient Monitoring
- Applied Stochastic Processes and Control
- Artificial intelligence
- Aspect Oriented Modeling
- assistive devices
- Audio, speech, image and video signal processing
- Auto-scaling on clouds
- Automatic Face Recognition
- Big data Analytics & Integration
- bioinformatics
- Biological signals (electromyography in particular)
- Biomedical Engineering
- biomedical engineering
- Biomedical signal analysis
- Biomedical signal processing
- Biomedical signal processing
- Biomedical signal quality analysis
- Biometric Systems
- brain computer interface
- Breathing, Snoring and Sleep Apnea Monitoring
- Broadband Wireless Access.
- Cellular networks
- Cellular networks
- classification
- Cloud computing
- Cloud computing
- Cloud Computing
- Cloud Computing (Cloud Resource Management & SLA)
- cloud management
- Coded Modulation
- Coding Theory
- Cognitive radio
- Cognitive Radio Networks
- Collaborative Virtual Environments
- Communication networks
- Compressed Sensing
- Compressive sensing
- Computational intelligence
- Computer games
- Computer graphics
- Computer networks
- computer vision
- concurrent algorithms for optimization
- contact and noncontact sensing and sensor processing
- Context-aware smart networks
- Control and State Estimation
- Control of robot manipulators.
- Cooperative communications
- Cooperative Control of Multiple Autonomous Robots.
- Core computing at the hardware/software interface.
Cross Layer design for Wireless Networks
Cyber-Physical Systems
data analytics
data science
Design, specification and modeling of embedded systems.
detection and estimation
Digital communication
Digital Communications
Digital Signal Processing
Discrete-Event Modelling and Simulation
Distributed antenna systems
Distributed Sensing
distributed sensing
Distributed Systems
Distributed systems performance modeling
Educational technology
efficient performance modeling
Electrical Impedance Tomography
Electromagnetic wave propagation in layered media, with applications to problems of remote sensing.
electronic warfare
Embedded Real-Time Systems
empirical software engineering
Error Control Coding
Feature Oriented Modeling
feature reduction
Fog computing
Fractal and multifractal analysis
Geolocation
golocation
Haptics with applications to medical simulations
HetNets
heuristics for optimization
Human-computer Interaction
Human-Computer Interaction
human/robot interaction
image and signal analysis
Implementation of Communication Algorithms
infeasibility analysis
Information Theory
Infrastructure as a Service (IaaS)
Integrated Fiber/Wireless local loops
intelligent signal processing
Interactive Multimedia Systems
Interactive networked systems: teleoperation, telerobotics and telehaptics with applications to telemedicine
Internet of Things
Internet of Things
Internet of Things
Internet of Things (IoT)
Inverse Problems
Iterative Coding Schemes
Layered queueing analysis
LDPC Codes
linear and nonlinear signal processing
linear programming
machine learning
machine learning
Management of parallel processing platforms for enabling data analytics
Management of storage and CPU resources on clouds
Map Reduce
Map Reduce with deadlines
Media Scalability, Adaptation, and Compression
Medical diagnostics
Medical Image Reconstruction
Medical Imaging
Medical monitoring technology
Middleware
MIMO
mixed-integer nonlinear programming
mixed-integer programming
Mobile Ad-Hoc Networks/MANETs
Mobile computing
mobility applications
model transformations
model-driven development
model-driven software development
model-driven testing
Modelling and Simulation Methodologies
Modelling and Simulation Techniques
Modulation and error control coding
modulation recognition
Motion Tracking and Motion Capture
Multi Robot Learning and Adaptation.
multi-sensors platforms and applications
multihop wireless networks
Multimedia Systems and Applications
Multimedia Transmission
Multimodal and multichannel signal processing
multimodal sensing
Network architecture
Network Coding
network computing
Network infrastructure
Network interconnections
Network optimization
Network planning
Network Protocol Design and Implementation Issues
network protocols
Network Security
Network traffic analysis
Network traffic anomaly detection
Network traffic engineering
Networks
Non-Intrusive Detection of Cardiac Arrythmia
Non-invasive physiological monitoring
noninvasive physiological signal processing
nonlinear programming
OFDM
Operating System design and implementation
Operating Systems.
optimization
optoelectronics and photonic devices
Parallel and Distributed Systems.
Parallel Simulation
pattern classification
pattern classification
Performance analysis
Performance Analysis of IP Networks
Performance Evaluation
performance models (Layered Queuing Networks and others)
performance optimization
Phase locked loop theory.
Yanikomeroglu
http://www.sce.carleton.ca/faculty/yanikomeroglu.html

Ono http://www.sce.carleton.ca/faculty/ono/

Ono http://www.sce.carleton.ca/faculty/ono/

Ajila http://www.sce.carleton.ca/faculty/ajila/ajila.html

Marsland http://www.sce.carleton.ca/faculty/marsland.html

El-Tanany http://www.sce.carleton.ca/faculty/el-tanany.html

Matrawy http://www.csit.carleton.ca/~amatrawy/

Mahmoud http://www.sce.carleton.ca/faculty/mahmoud/mahmoud.html

Yu http://www.sce.carleton.ca/~fyu/

Yanikomeroglu http://www.sce.carleton.ca/faculty/yanikomeroglu.html

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Majumdar http://www.sce.carleton.ca/faculty/majumdar.html

Pearce http://www.sce.carleton.ca/faculty/pearce.html

Yanikomeroglu http://www.sce.carleton.ca/faculty/yanikomeroglu.html

Huang http://www.sce.carleton.ca/faculty/huang.html

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Talim http://www.sce.carleton.ca/faculty/talim.html

Liu http://www.sce.carleton.ca/faculty/liu.html

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Rajan http://www.sce.carleton.ca/faculty/rajan/

Whitehead http://iv.csit.carleton.ca/~awhitehe/

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Goubran http://www.sce.carleton.ca/faculty/goubran.html

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Chan http://www.sce.carleton.ca/faculty/chan.html

Dansereau http://www.sce.carleton.ca/faculty/dansereau.html

Ibnkahla http://www.sce.carleton.ca/faculty/ibnkahla/

Rajan http://www.sce.carleton.ca/faculty/rajan/

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Joslin http://www.csit.carleton.ca/~cjoshiin/

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St-Hilaire http://www.sce.carleton.ca/~msthilaire/

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Lung http://www.sce.carleton.ca/faculty/lung.html

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St-Hilaire http://www.sce.carleton.ca/~msthilaire/

Ajila http://www.sce.carleton.ca/faculty/ajila/ajila.html

Petriu http://www.sce.carleton.ca/faculty/petriu.html

Franks http://www.sce.carleton.ca/faculty/franks/franks.html

Petriu http://www.sce.carleton.ca/faculty/petriu.html

Lung http://www.sce.carleton.ca/faculty/lung.html

Ajila http://www.sce.carleton.ca/faculty/ajila/ajila.html


Lung http://www.sce.carleton.ca/faculty/lung.html

Kunz http://www.sce.carleton.ca/faculty/kunz.html

Banihashemi http://www.sce.carleton.ca/faculty/banihashemi.html

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El-Tanany http://www.sce.carleton.ca/faculty/el-tanany.html

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El-Tanany http://www.sce.carleton.ca/faculty/el-tanany.html

Schwartz http://www.sce.carleton.ca/faculty/schwartz/index.html
TCP/IP
Technologies for the Independent Living of Seniors (Gerontechnology)

Telecommunications networks

trace-based performance analysis

Transient and steady state response to modulated carriers.

ultrasound imaging and measurements

Unmanned Vehicle Systems

Vehicular Ad-Hoc Networks/VANETs

Virtual and Augmented Reality

Virtual environments

Vision, Navigation, and Guidance

Wavelet and multiresolution analysis

Web Development

Web Services and Service Oriented Architecture

Wired networks

Wireless Ad-hoc networks

Wireless Applications in Transportation Management and Safety

Wireless communication

Wireless Communications

Wireless communications

Wireless LAN's and Ad-Hoc networking

wireless networks

Wireless networks

Wireless Sensor Networks

Wireless Sensor Networks

Wireless Sensor Networks

Wireless sensor networks

Kunz

Goubran

St-Hilaire

Ono

Franks

El-Tanany

Ono

Atiken

Kunz

Girouard

Arya

Joslin

Atiken

Dansereau

Talim

Majumdar

St-Hilaire

Lambadaris

Hafez

Marsland

Banihashemi

Yanikomeroglu

Hafez

Mahmoud

St-Hilaire

Hafez

Hafez

Ibnkahla

Kunz

Liu

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http://www.sce.carleton.ca/faculty/yanikomeroglu.html

http://www.sce.carleton.ca/faculty/hafez.html

http://www.sce.carleton.ca/faculty/mahmoud/mahmoud.html

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http://www.sce.carleton.ca/faculty/hafez.html

http://www.sce.carleton.ca/faculty/ibnkahla/

http://www.sce.carleton.ca/faculty/kunz.html

http://www.sce.carleton.ca/faculty/liu.html