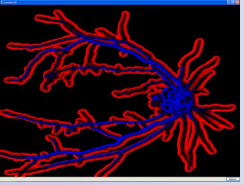
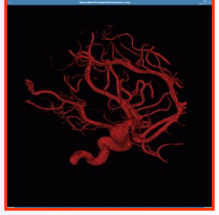
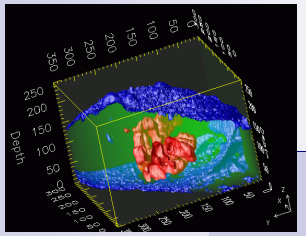
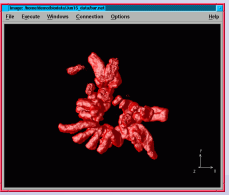
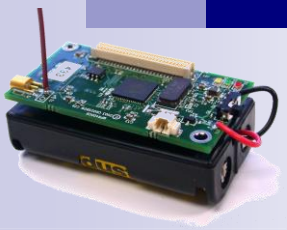


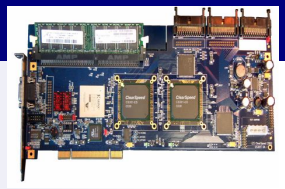


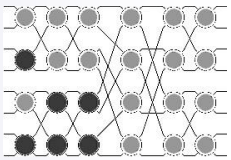


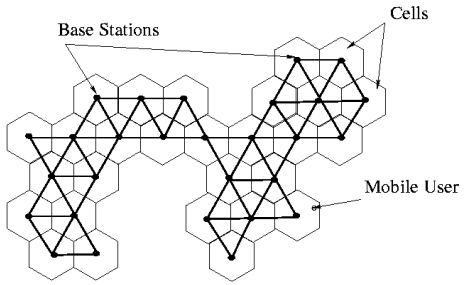


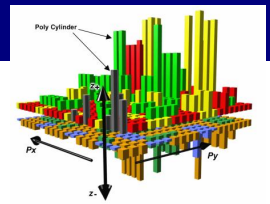
KSU Computer Science Department 2008 (First!) Graduate Alumni Reunion

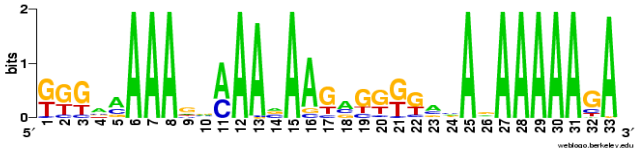


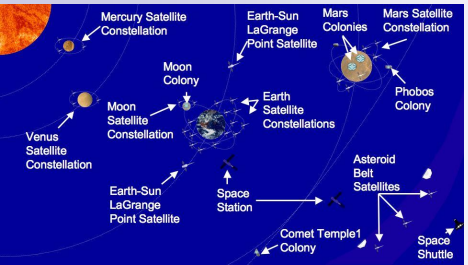












Kent State University

- **33,000 students**
  - 22,000 at Kent & 11,000 at 7 Regional Campuses
  - 29,000 undergraduate & 4,000 graduate
- **7 Colleges**
  - Business Administration, Architecture & Environmental Design, Nursing, Technology, Arts, Communication & Information
  - Arts & Sciences
    - Anthropology, Biological Sciences, Chemical Physics, Chemistry, Computer Science, Geology, Mathematical Sciences, Physics
    - + 10 humanities & social science departments

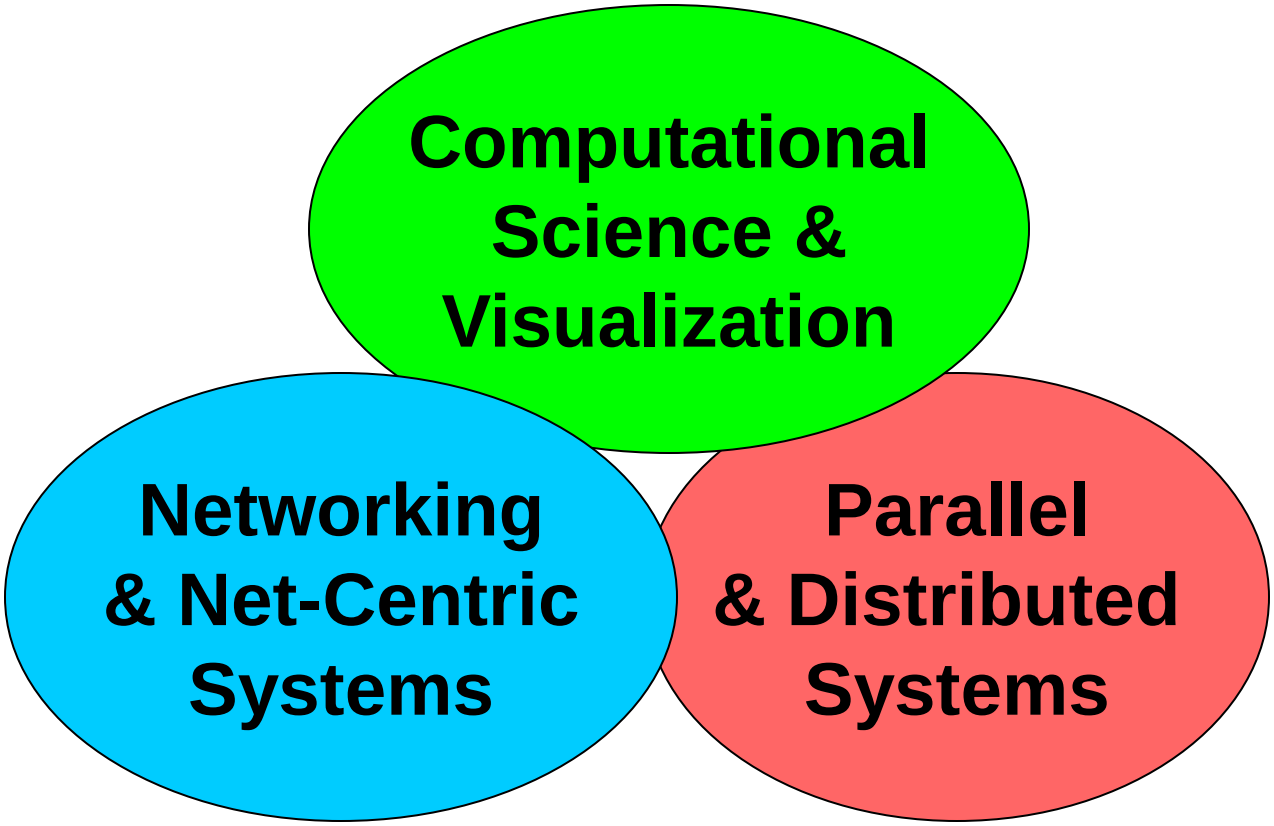
Computer Science Faculty & Staff

- **20 tenure-track faculty & 3 non-tenure-track faculty**
  - 12 Professors, 5 Associate Profs, 2 Assistant Profs
  - 1 Assistant Professor at Stark Campus
  - 1 NTT Industrial Associate Professor
  - 2 NTT Lecturers
- **3.2 staff members**
  - Administrative Secretary & Word Processing Specialist
  - Research Engineer II & III (each shared 60/40 w/ Math)
- **2 staff members (hired on extramural funds)**
  - Graduate Secretary (as Program Assistant 6)
  - Research Engineer II

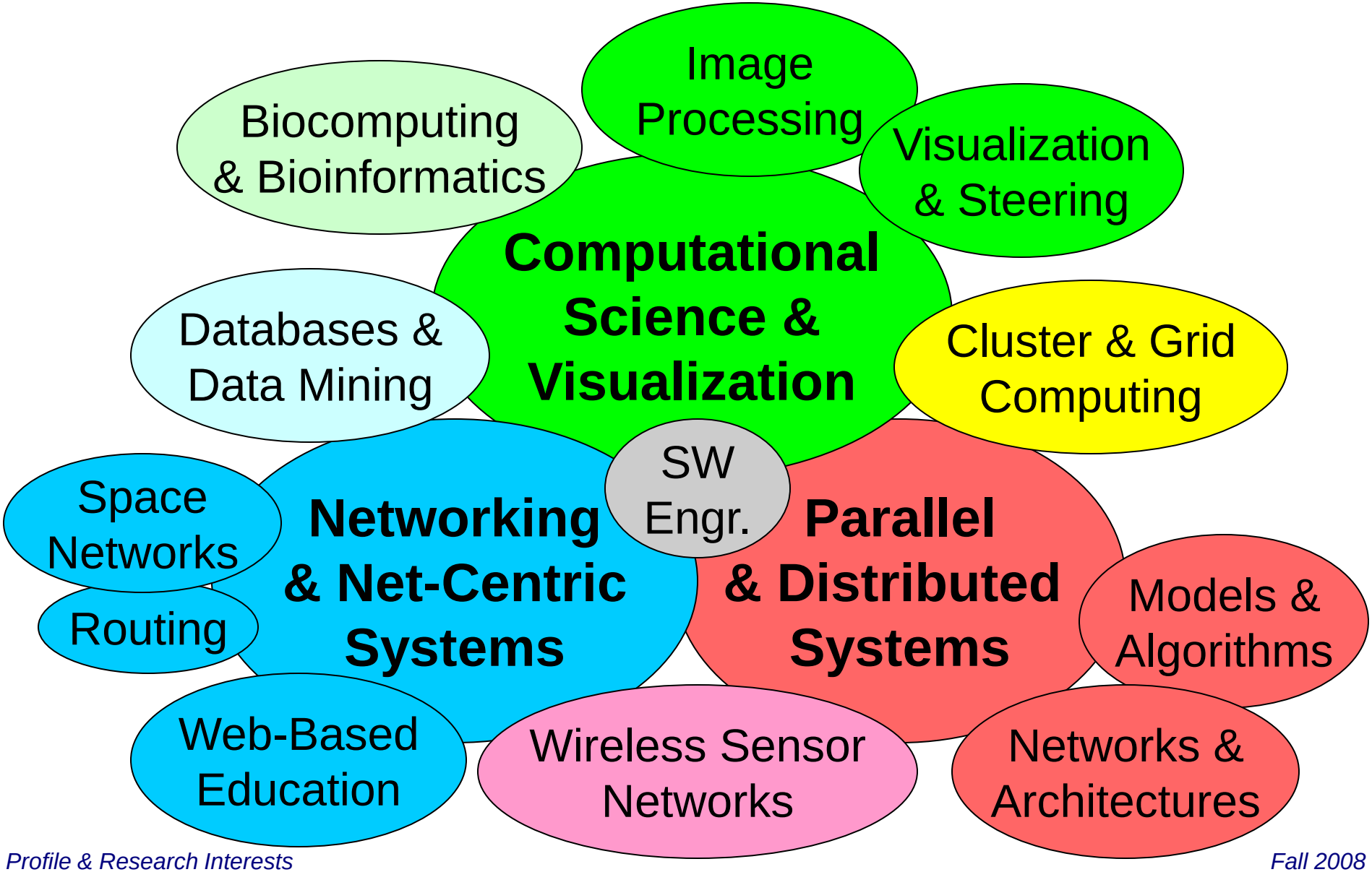
Computer Science Students

- **~ 100 graduate students**
  - 57 Masters students
  - 41 PhD students
  - ~ 3 Masters and 2 PhD students per professor
- **~ 250 (declared) undergraduate majors**
  - 100 Freshmen
  - 48 Sophomores, 42 Juniors, 52 Seniors

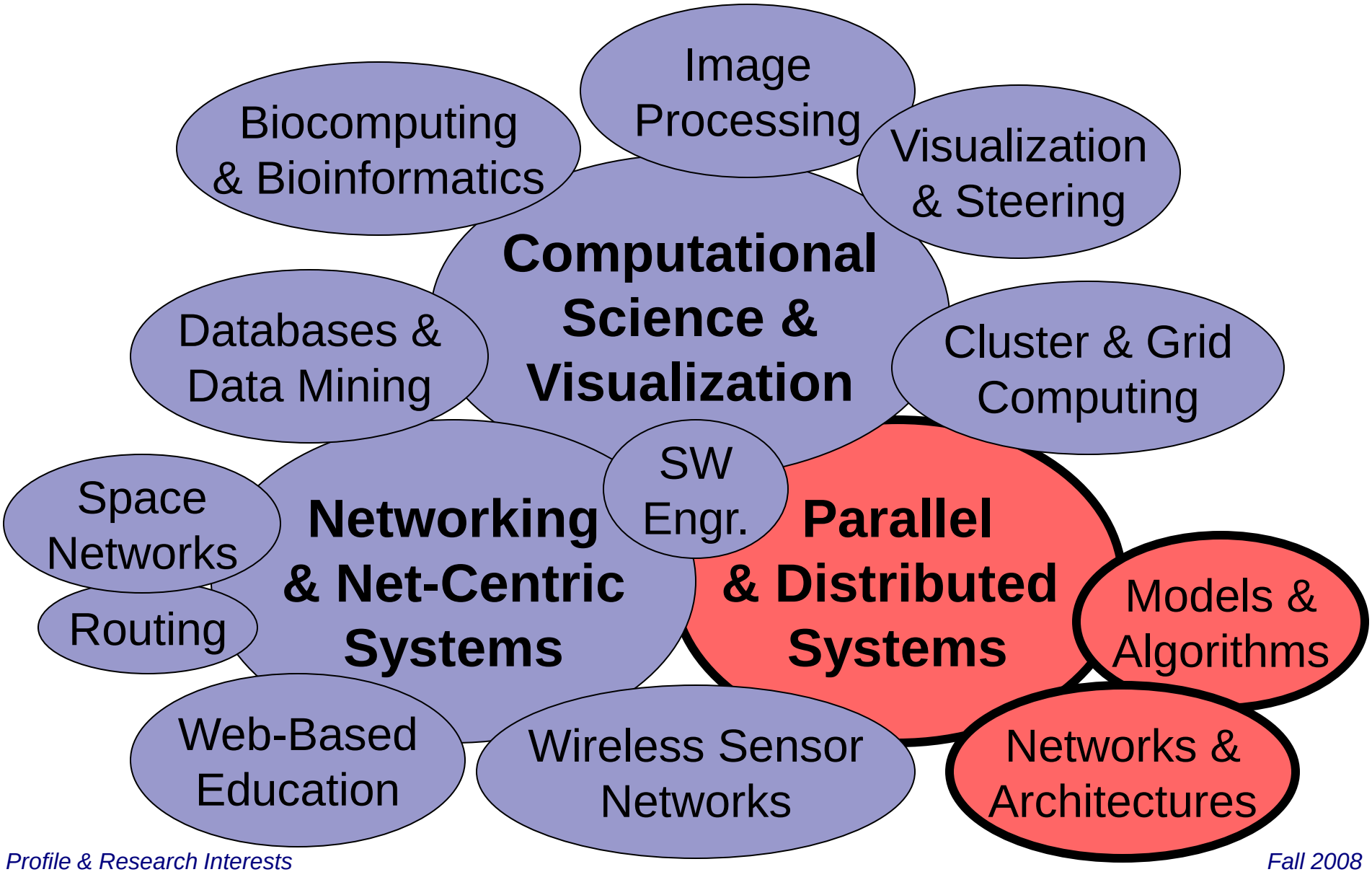
KSU CS Research Interests



KSU CS Research Interests



KSU CS Research Interests

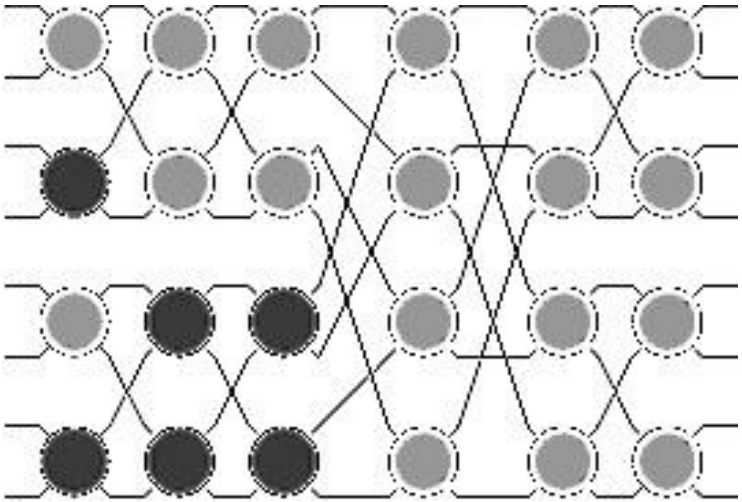


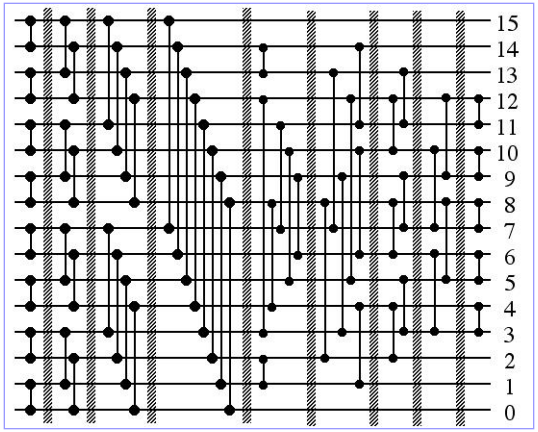
Kenneth E. Batcher

Professor

1964 Ph.D., University of Illinois

Research interests include…
- parallel algorithms, parallel processors, parallelizing compilers, interconnection networks, and sorting networks





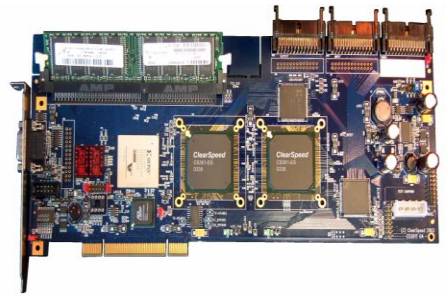
Johnnie W. Baker

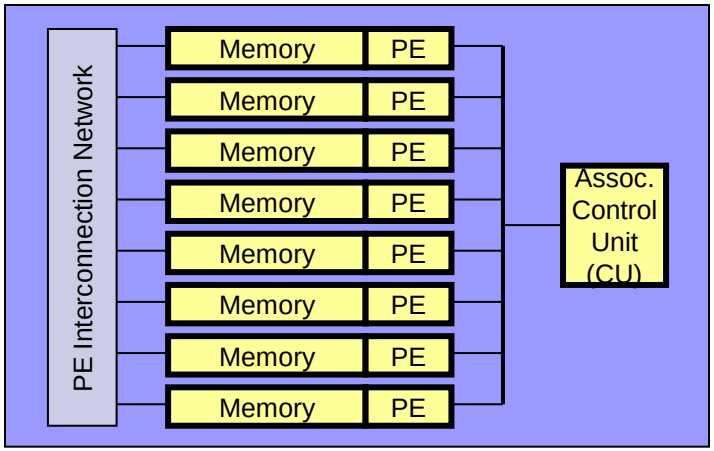
Professor

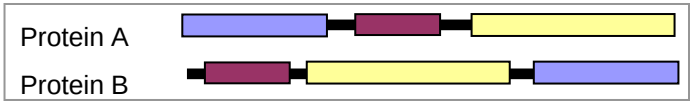
1968 Ph.D., University of Texas at Austin

Research interests include…

parallel computing, parallel computational models, parallel algorithms, associative SIMD and multi-SIMD computing, massively parallel architectures, SIMD real-time air traffic control, molecular similarity analysis, and structure-activity visualization in computational chemistry



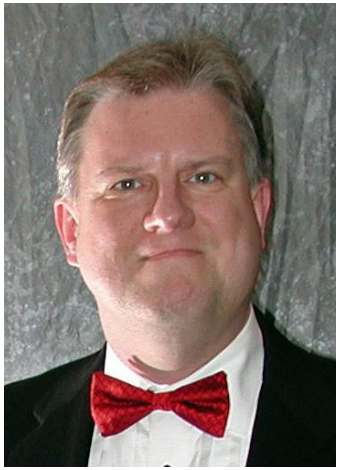


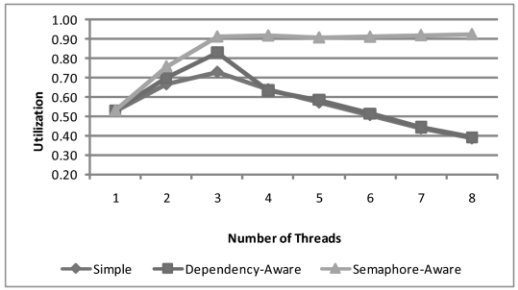


Robert A. Walker

Professor & Chair

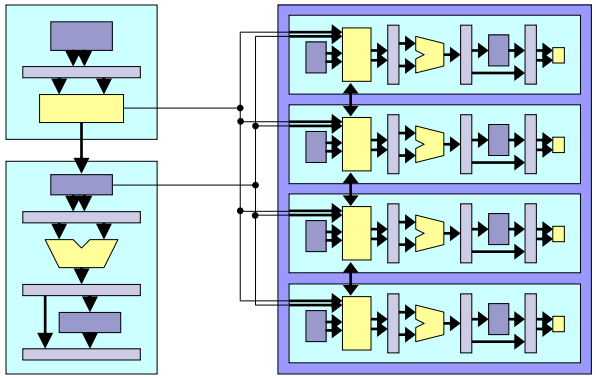
1988 Ph.D., Carnegie Mellon University

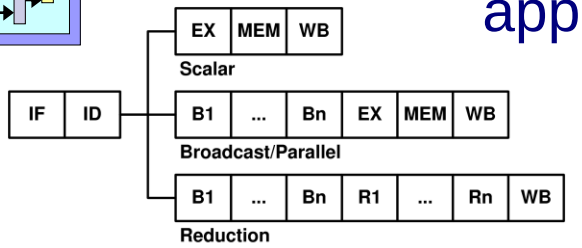


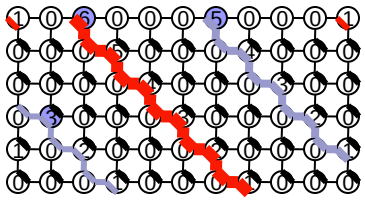


Research interests include…

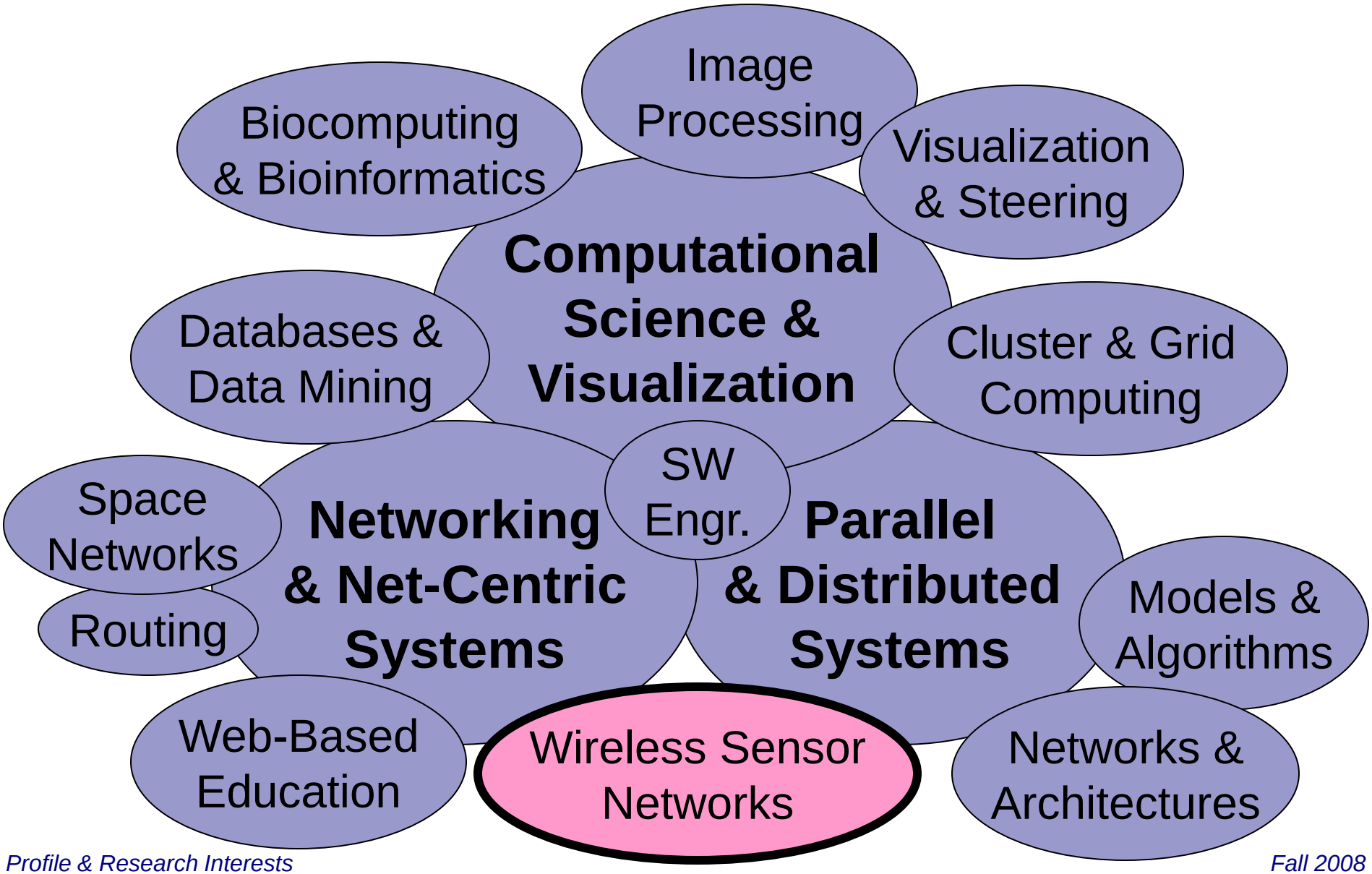
- novel architectures for embedded systems, in particular pipelined and multithreaded associative SIMD processing arrays on FPGAs, and hardware/software support to improve instruction cache performance for dedicated applications







KSU CS Research Interests



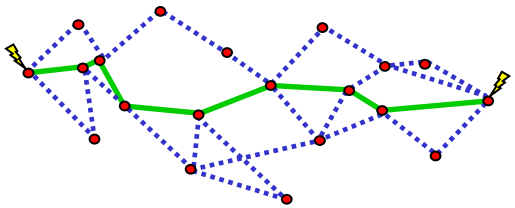
Mikhail Nesterenko

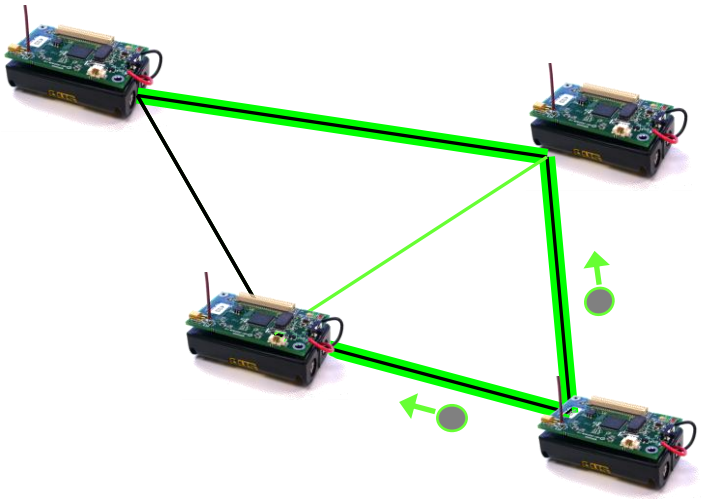
Associate Professor

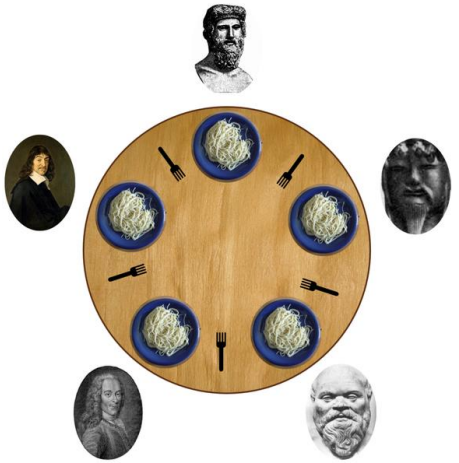
1998 Ph.D., Kansas State University

Research interests include…

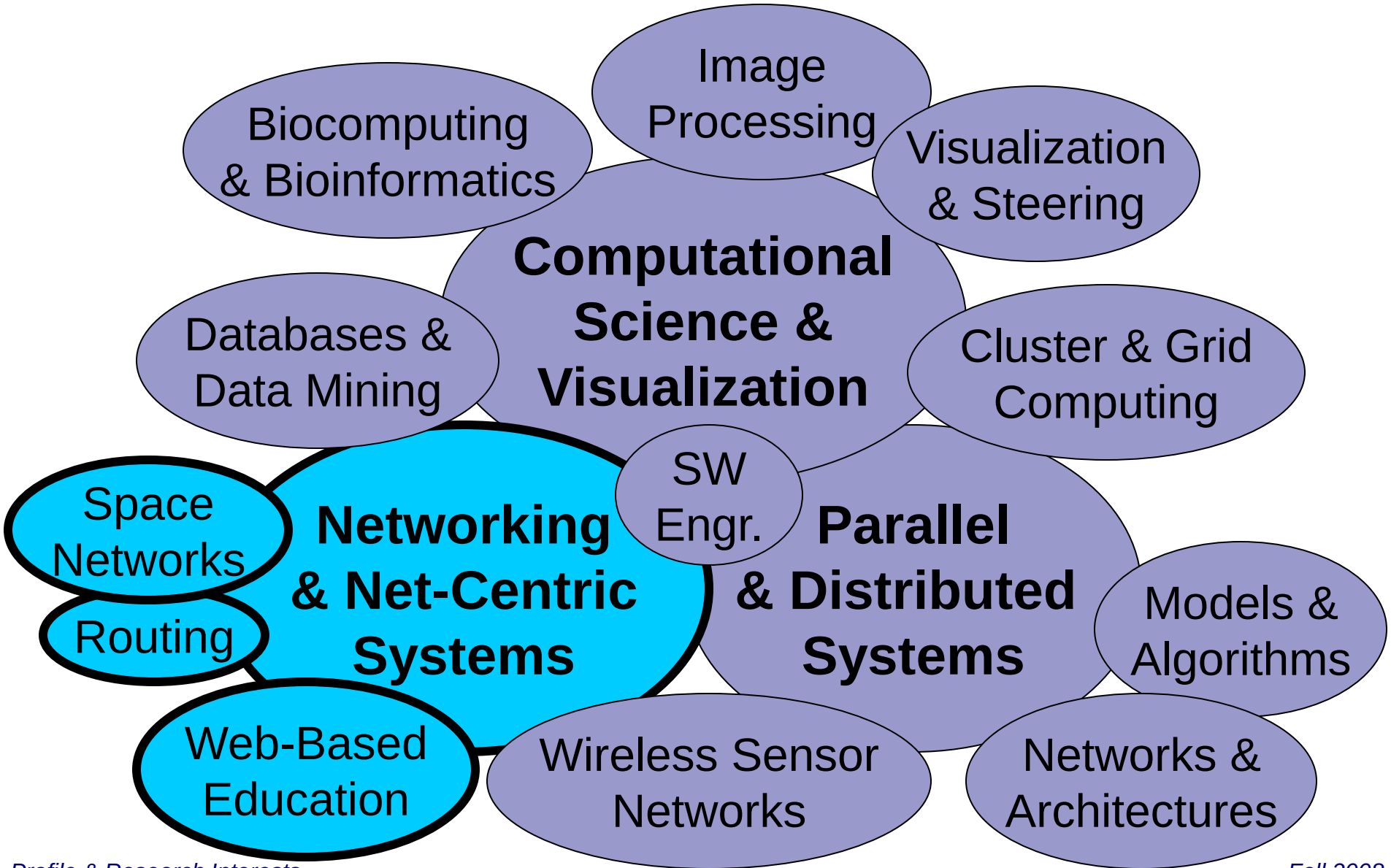
- distributed algorithms,
- distributed systems, and
- computer networks



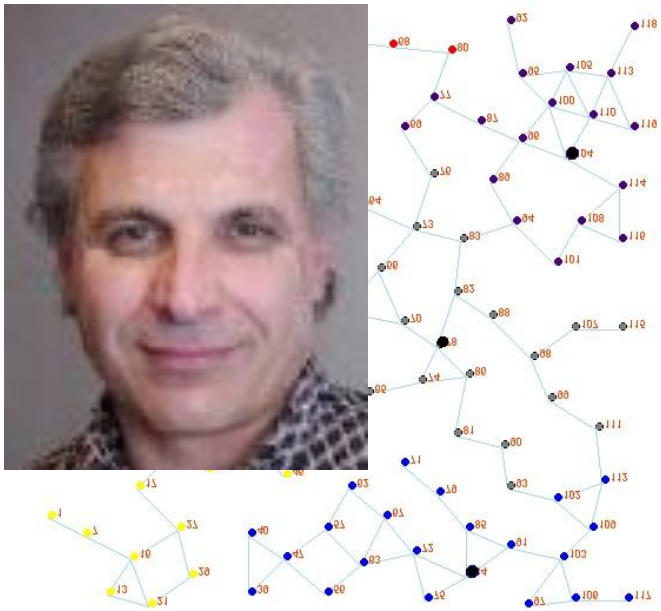




KSU CS Research Interests



Hassan Peyravi

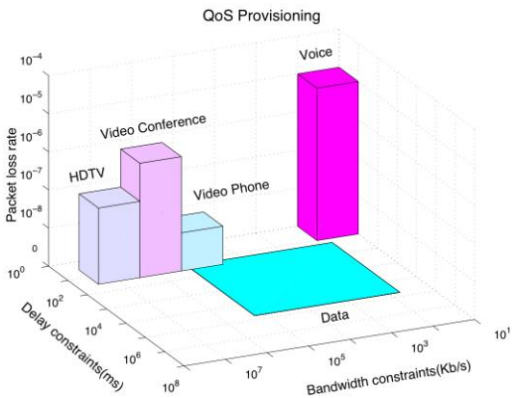


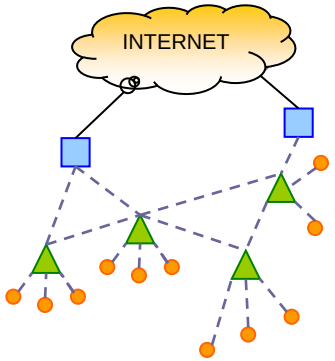
Professor

1985 Ph.D., University of Oklahoma

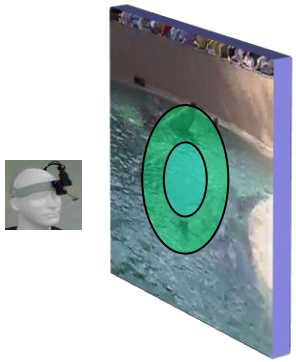
Research interests include…

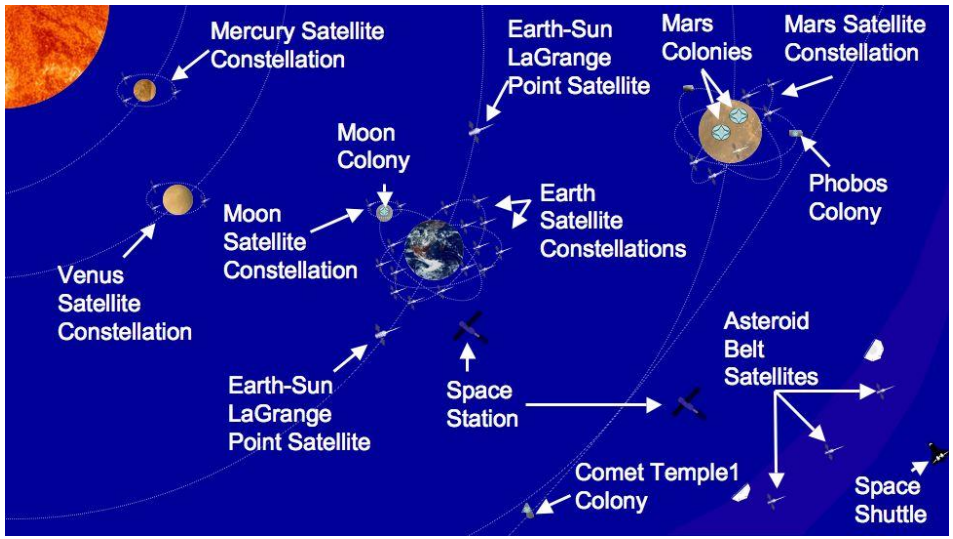
- multiple access protocols for wireless and satellite communications, traffic management and congestion control, interconnection networks, and systems modeling and performance evaluations





Javed I. Khan





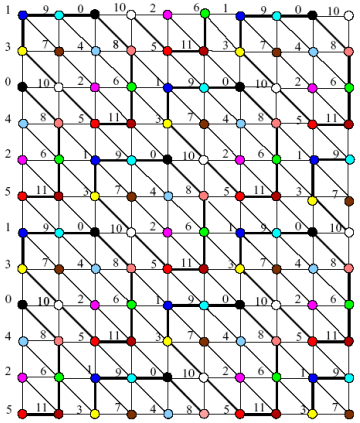
Professor

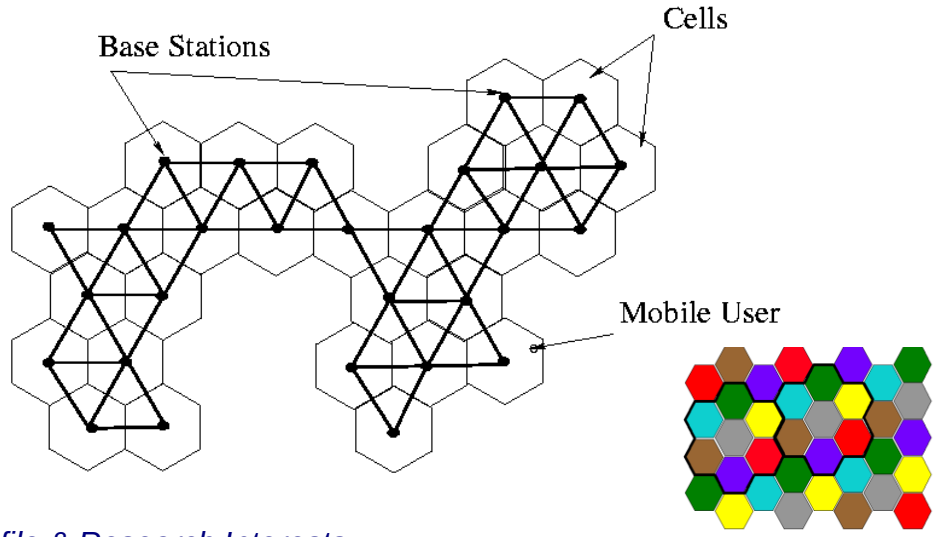
1995 Ph.D., University of Hawaii at Moana

Research interests include…

networks, network based complex systems, space networking, peer-to-peer computing, high performance computation and communication, multimedia communication, image database, perceptual video, and associative information retrieval

Feodor F. Dragan





Associate Professor

1990 Ph.D., Belorussian Academy of Sciences

Research interests include…

design and analysis of geometric, network and graph algorithms, algorithmics of wireless ad hoc networks, computational geometry and biology, combinatorial optimization, geometry of discrete metric spaces, operations research, and data analysis

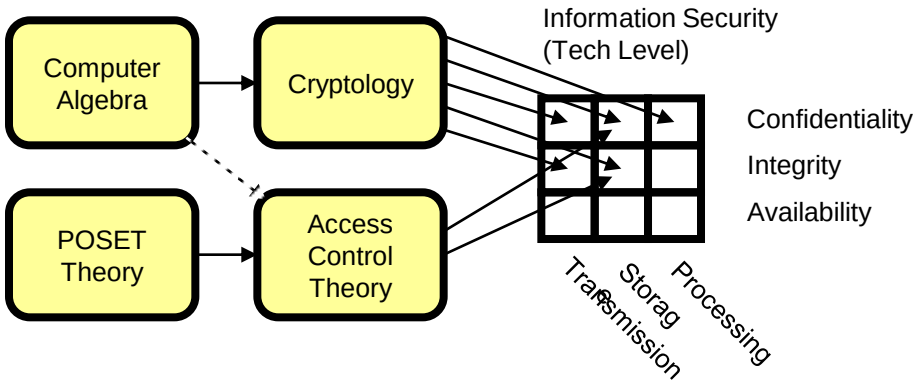
Michael Rothstein

Associate Professor

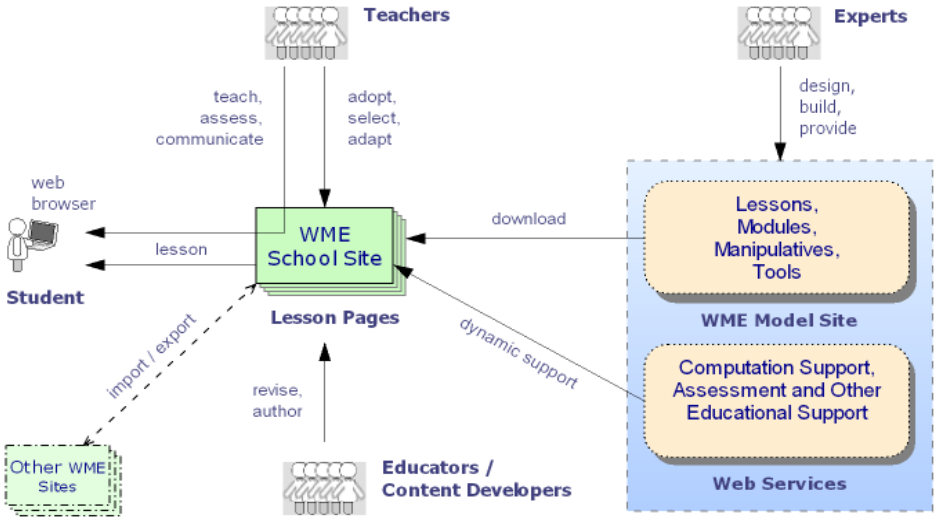
1976 Ph.D., University of Wisconsin

Research interests include…

algorithms and systems for symbolic and algebraic computation, and information security specializing in access control theory



Paul S. Wang

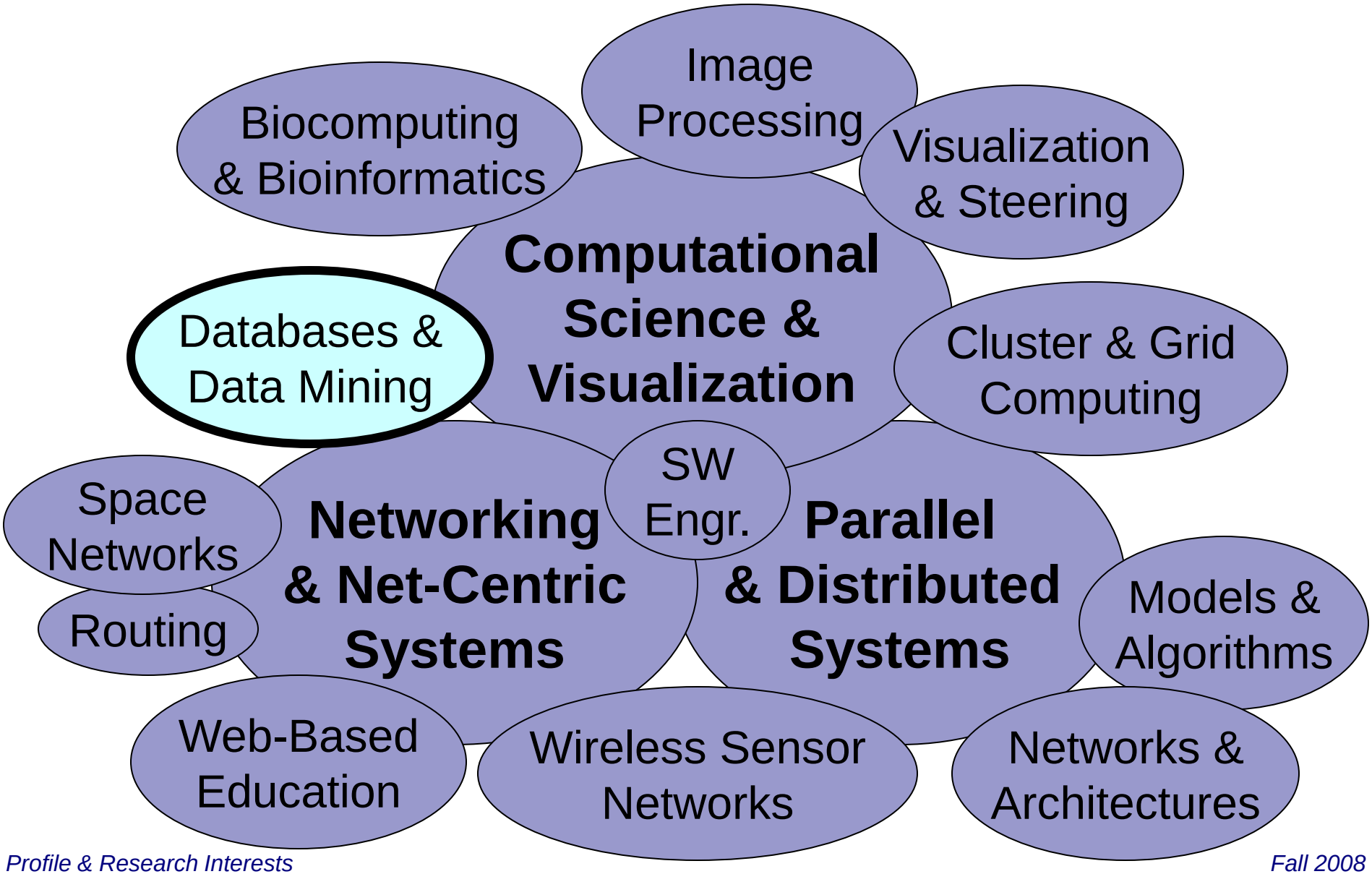


Professor

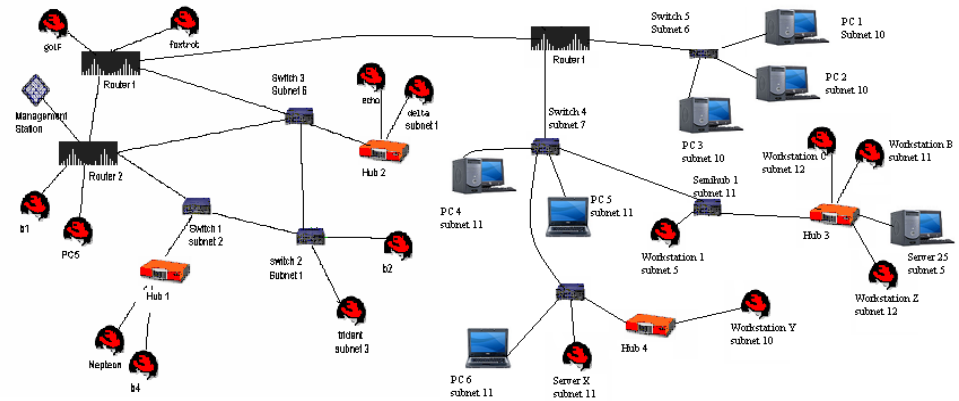
1971 Ph.D.,
Massachusetts Institute of Technology

Research interests include…
symbolic computation, polynomial algorithms, distributed / parallel computation, problem solving environments, internet-accessible mathematical computation, and Web-based mathematics education

KSU CS Research Interests



Yuri Breitbart



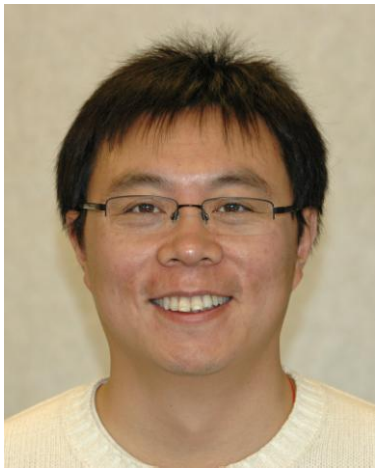
OBR Distinguished Professor

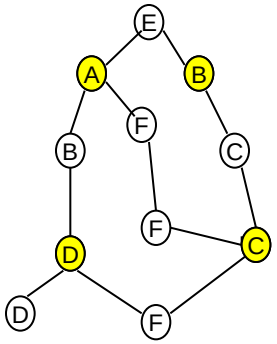
1973 D.Sc., Israel Technological Institute (Technion)

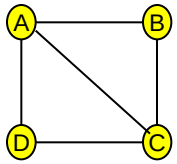
Research interests include…

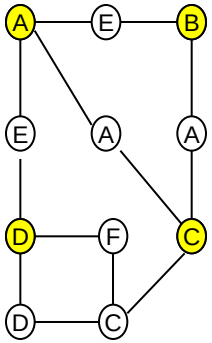
- replicated and distributed databases, network management including network monitoring, network topology, data warehousing and multidatabases, data mining, and application of database and data mining technologies to medicine

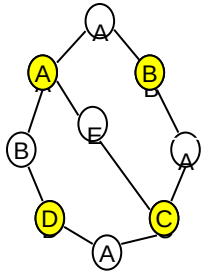
Ruoming Jin

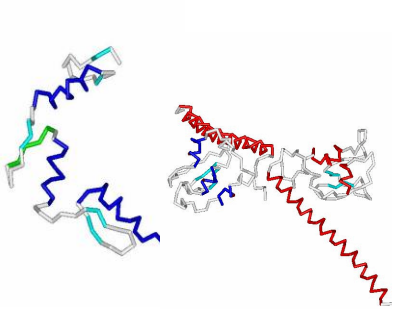












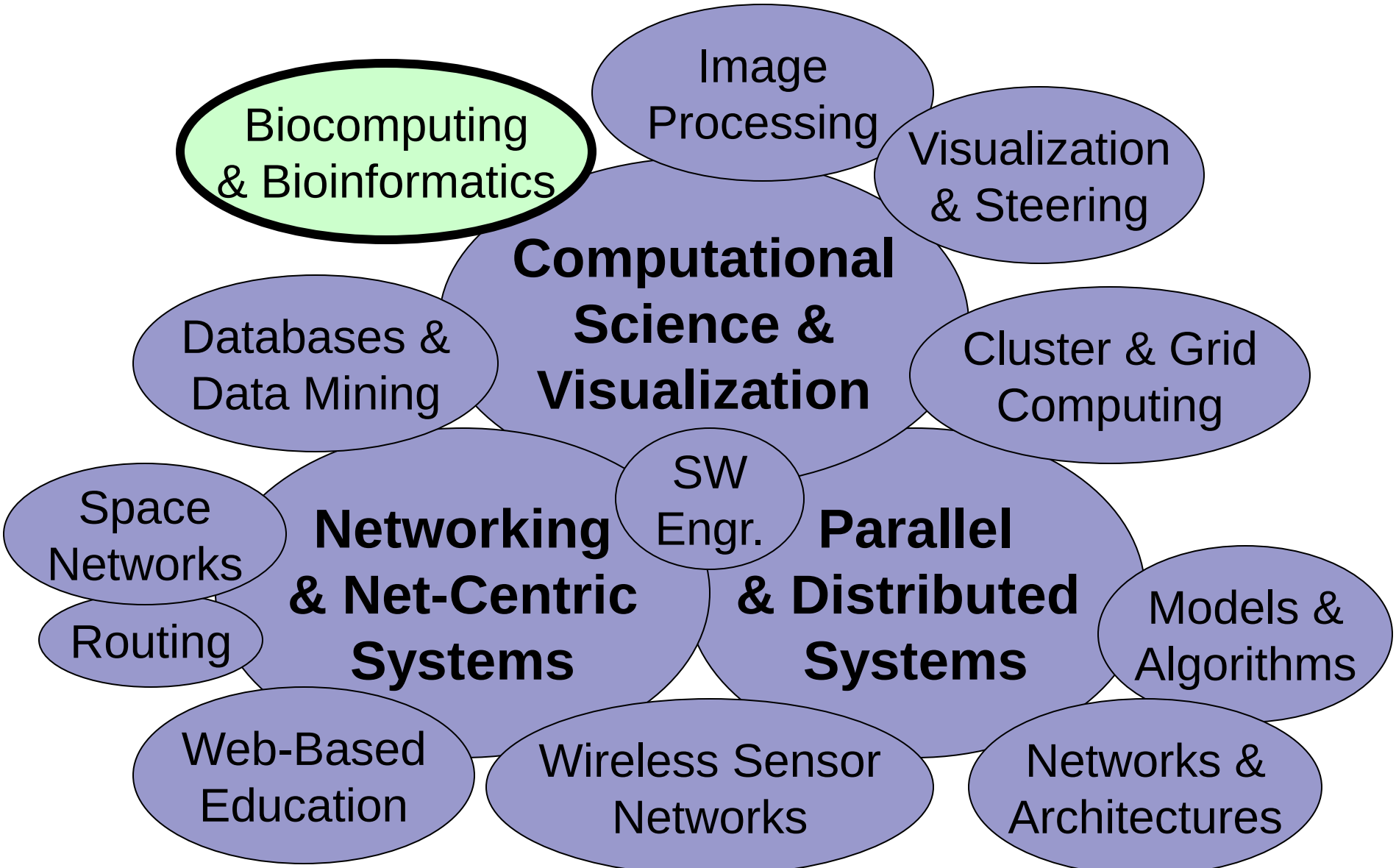
Assistant Professor

2005 Ph.D., Ohio State University

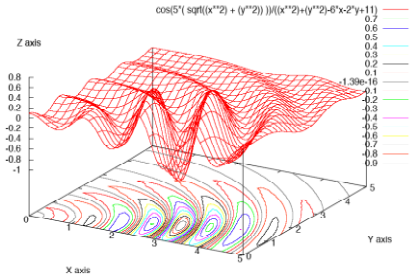
Research interests include…

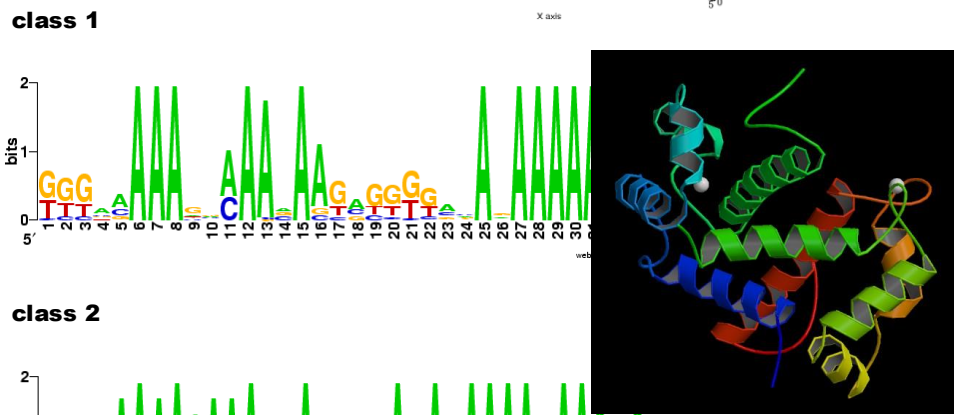
system support and algorithm design for scalable data mining, data stream processing, massive graph mining, approximate query processing, bioinformatics, information integration for biological databases, and high performance computing

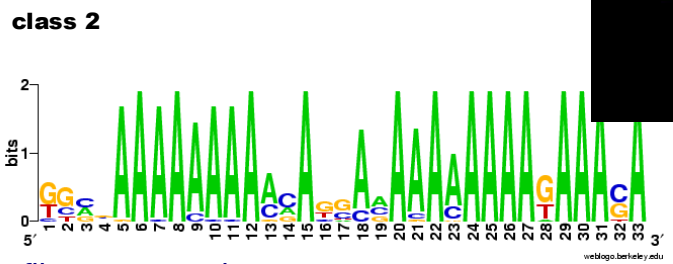
KSU CS Research Interests



L. Gwenn Volkert







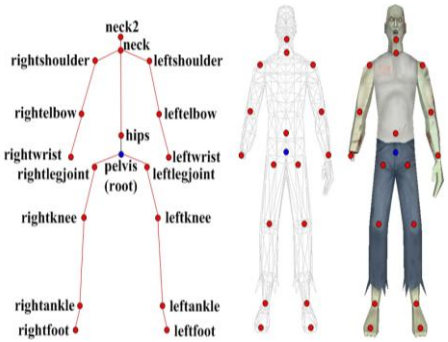
Associate Professor

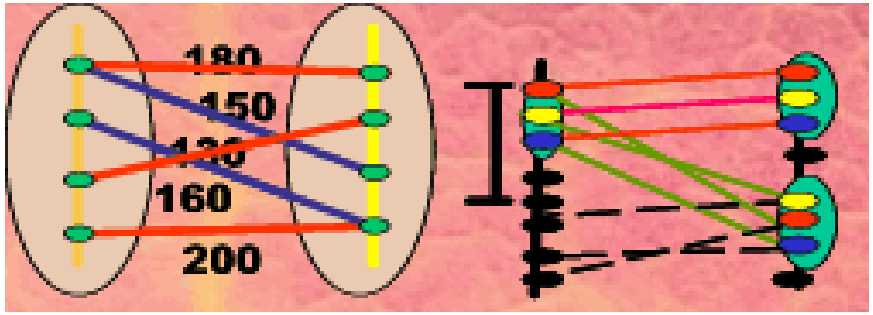
2001 Ph.D., Wayne State University

Research interests include…

- computational intelligence and machine learning approaches to problems in bioinformatics and computational biology, extending collective automata theory, and biological modeling and simulation; projects are interdisciplinary with life sciences research both locally and internationally

Arvind K. Bansal





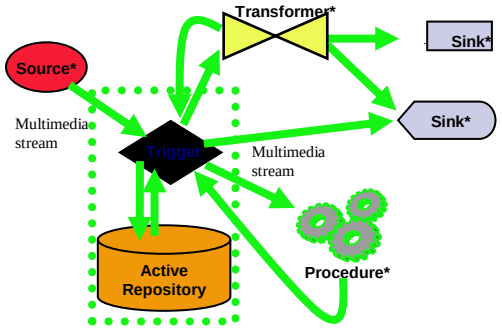
Professor

1988 Ph.D., Case Western Reserve University

Research interests include…

multimedia and Internet based computing languages and environments, human computer interaction, digital human system, image understanding systems, knowledge based systems, fault tolerant intelligent agents, bio-inspired intelligent computing, genomics and proteomics

Angela Guercio

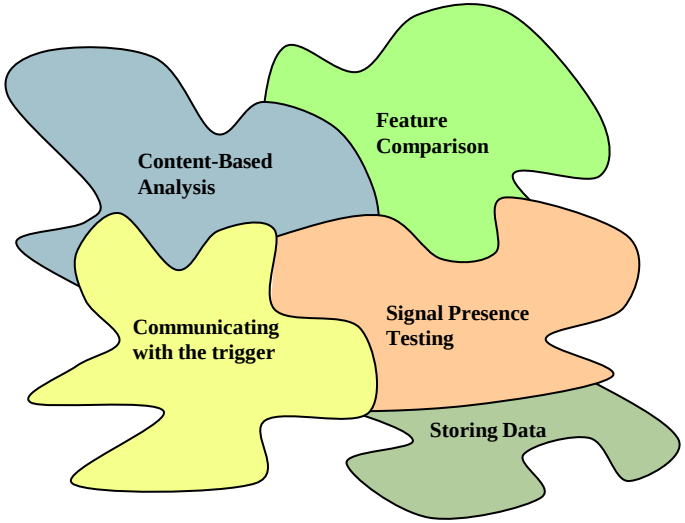


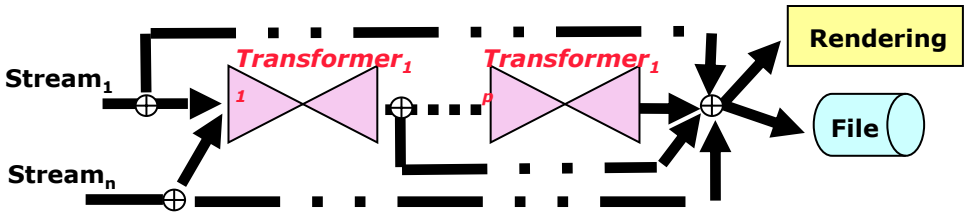
Assistant Professor (Stark Campus)

2004 Ph.D., Kent State University

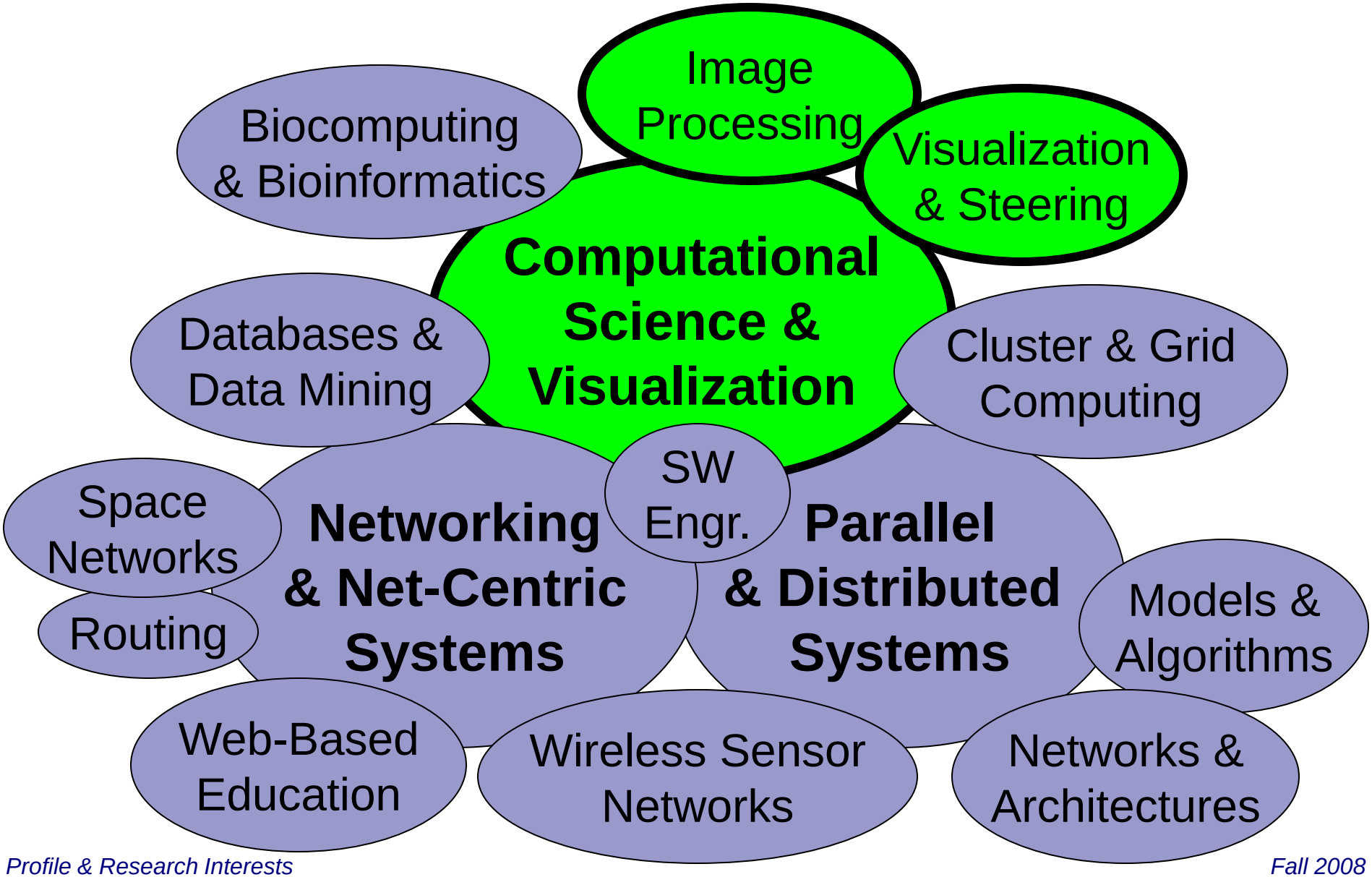
Research interests include…

programming languages, multimedia computing, and web programming with particular attention to languages that support the design and development of reactive distributed multimedia applications

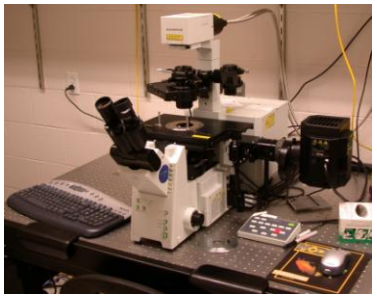


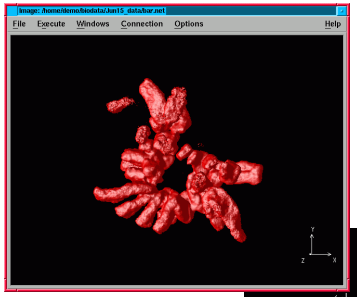


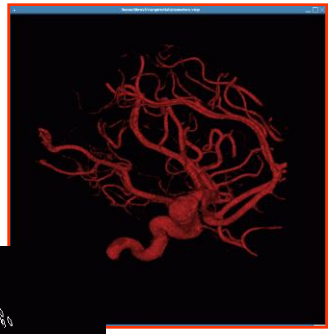
KSU CS Research Interests

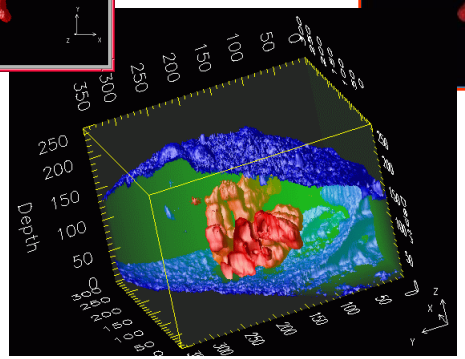


Arden Ruttan









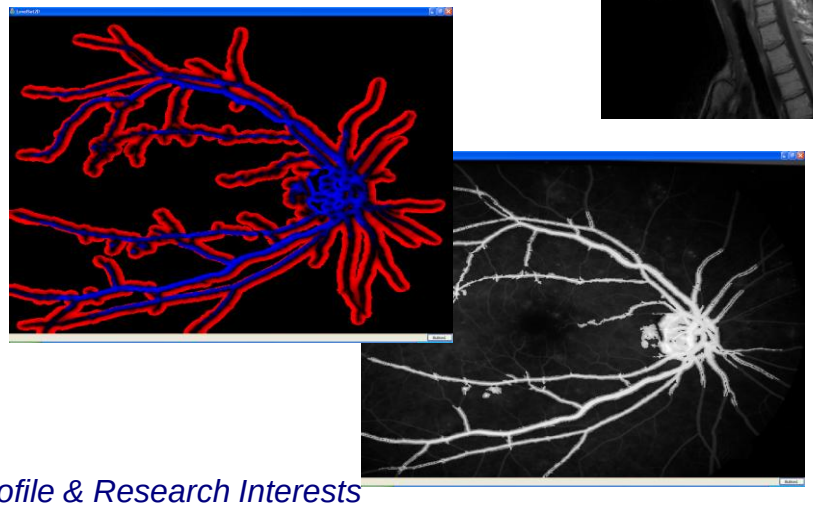
Professor

1977 Ph.D., Kent State University

Research interests include…

computational science, bio-computing, liquid crystal modeling, visualization, parallel computing, numerical analysis, computational steering, cluster computing, highly ill-conditioned mathematical computations, and the parallel implementations of such problems

Cheng-Chang Lu



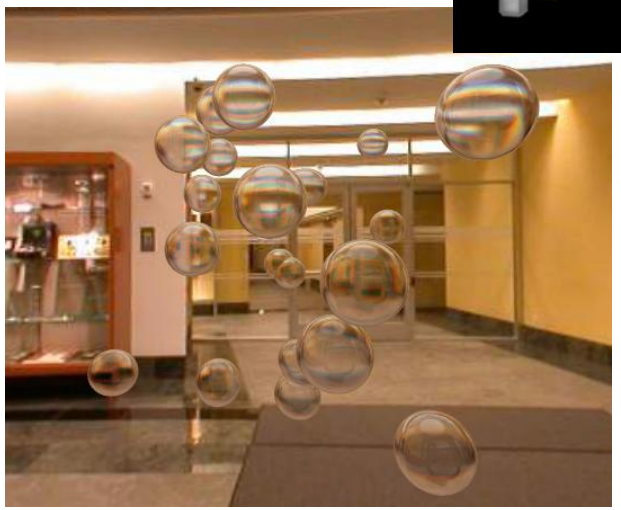
Professor

1988 Ph.D., Southern Methodist University

Research interests include…

data compression, image processing, computer vision, medical image registration and segmentation, visual communications, visual information transmission, and multimedia database and mining

Ye Zhao



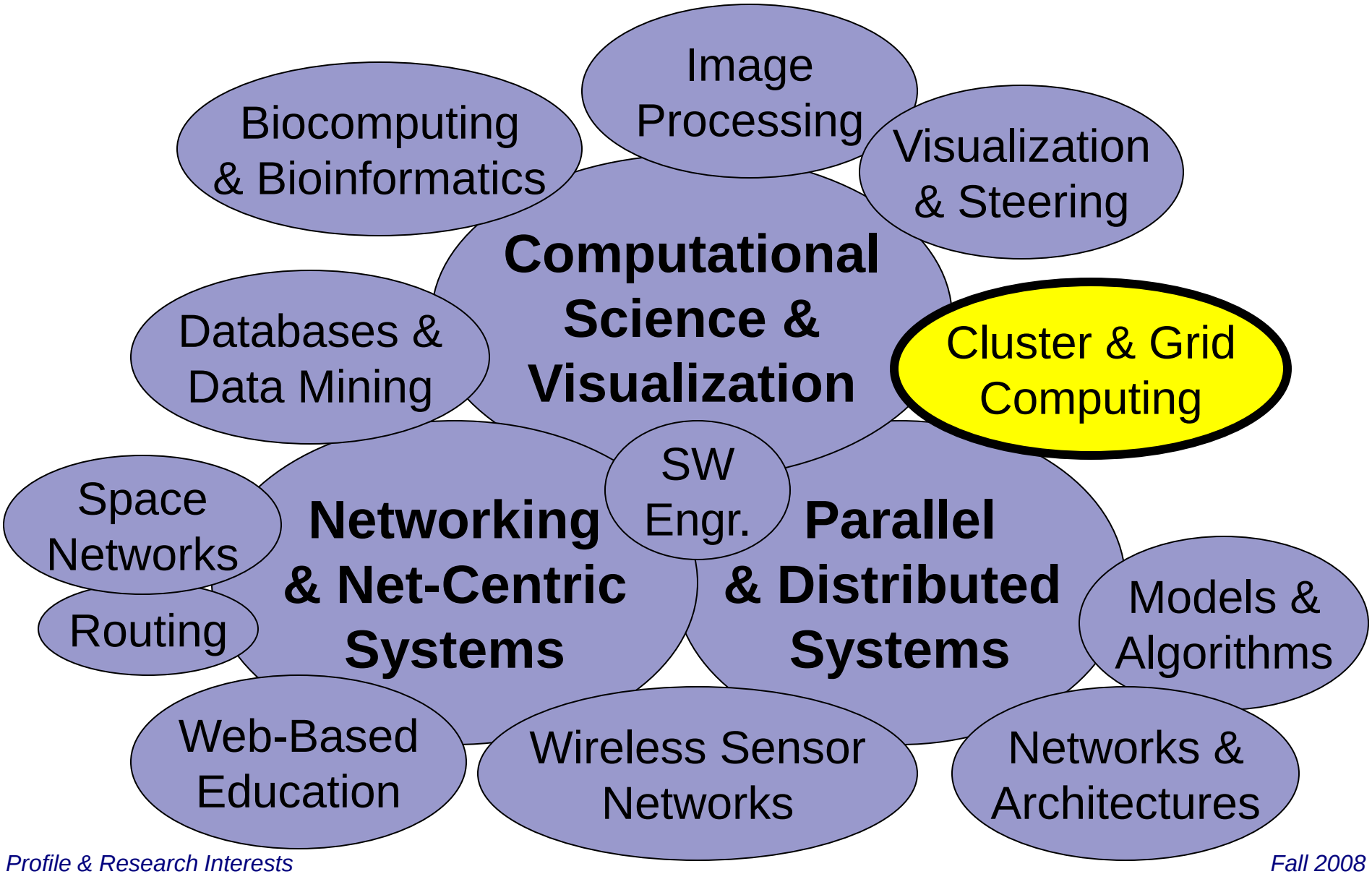
Assistant Professor

2006 Ph.D., Stony Brook University

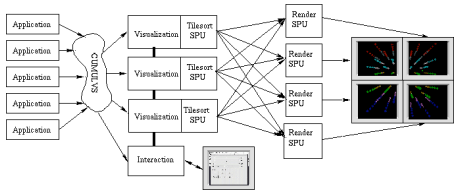
Research interests include…

- computer graphics and scientific visualization, natural phenomena modeling, physically based simulation and visualization, volume visualization, and general purpose computation using graphics hardware (GPGPU)

KSU CS Research Interests



Paul A. Farrell



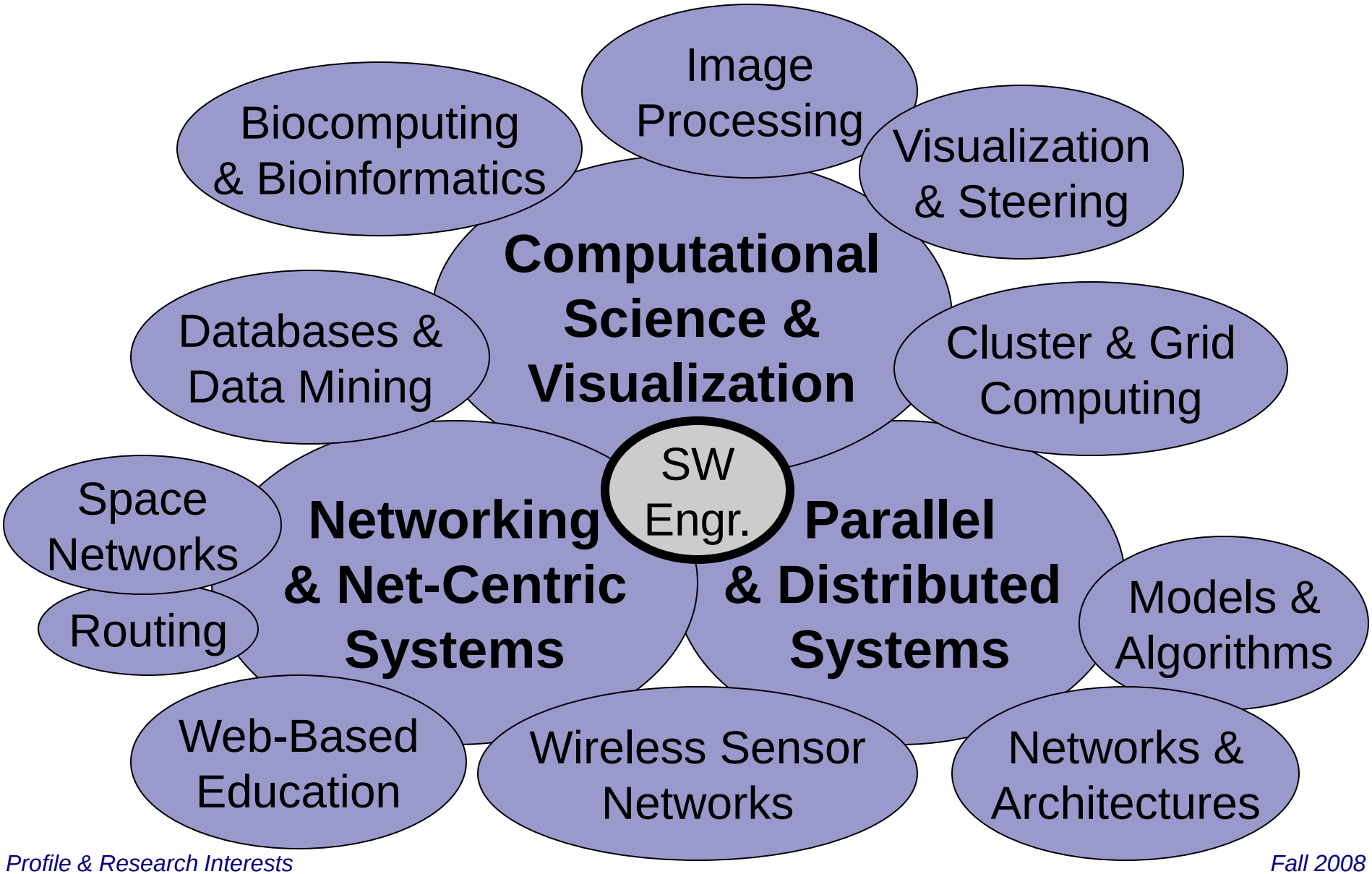
Professor

1983 Ph.D., Trinity College

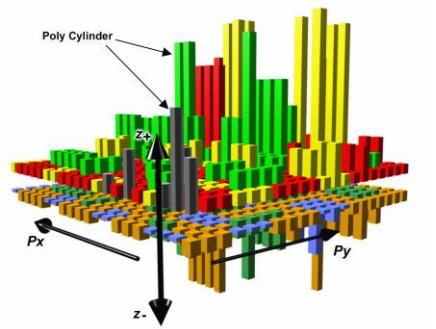
Research interests include…

parallel and distributed computation, cluster and grid computing, computational steering, scientific visualization, high speed networking, numerical solution of singularly perturbed differential equations, and computational methods for liquid crystal problems, fluids and biology

KSU CS Research Interests



Jonathan I. Maletic

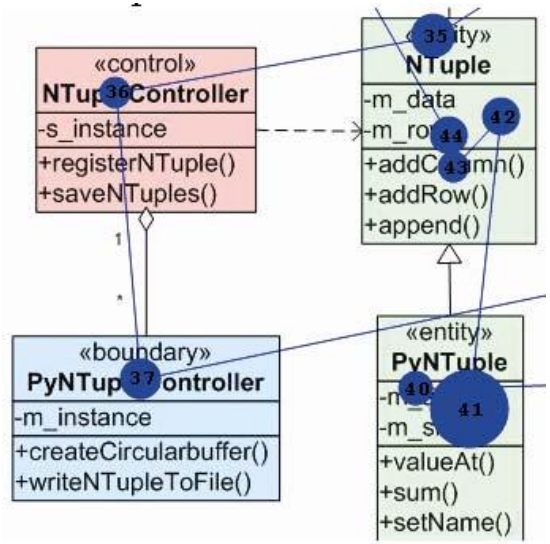


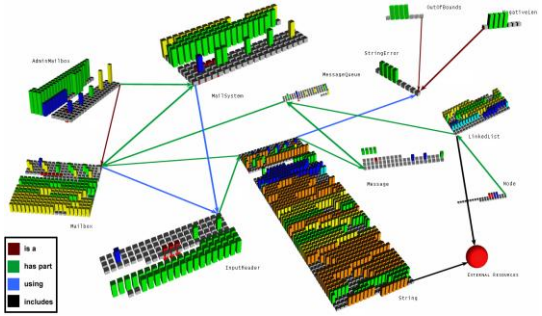
Associate Professor

1995 Ph.D., Wayne State University

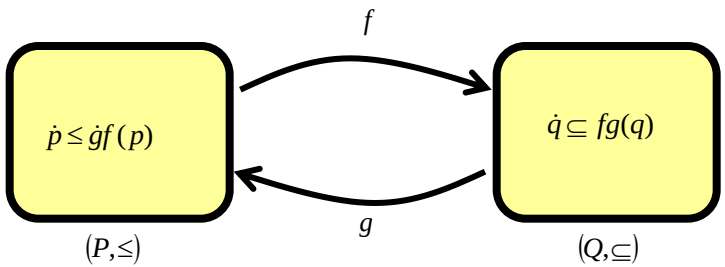
Research interests include…

- software engineering and evolution, reverse engineering, program comprehension, static program analysis, software visualization, and maintenance tools and environments





Austin Melton



f and g are order-preserving

$\wedge$

f and g are quasi-inverses

$(f = fgf$ and $g = gfg)$

$\Rightarrow (f,P,Q,g)$ is an abstraction of a classical compiler correctness proof.

Professor

1980 Ph.D., Kansas State University

Research interests include…

- measurement theory applied to software metrics,
- lattice theory with generalizations to category theory,
- programming semantics, ethical and social issues in the development and use of information technology, and
- mathematical pedagogy