Welcome to

SUNY Korea 2015 HOT-T-CS

Hot Topics in Computer Science

July 13 – 17, 2015

SUNY Korea, Songdo, Korea

SUNY Korea 2015 HOT-T-CS

Hot Topics in Computer Science

MEET THE TEAM

Stony Brook University

Computer Science @ Stony Brook

Largest major in the College of Eng. and Applied Sciences

#8-ranked doctoral Computer Science **program** in the USA (National Research Council)

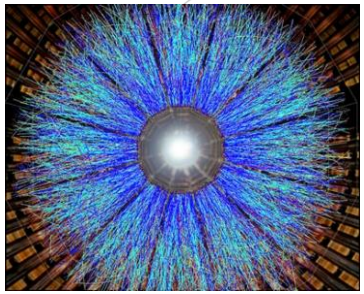
1,700 undergraduate and graduate **students**

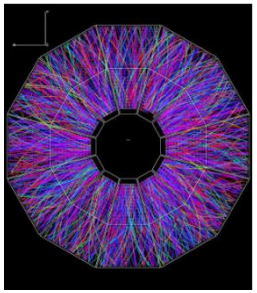
53 tenure-track and non-tenure-track **faculty members**

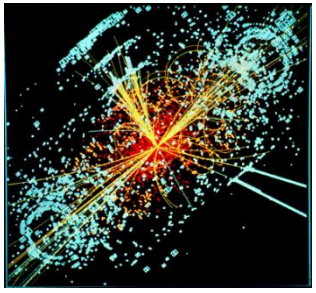
8,000+ alumni working at Google, Apple, Yahoo, Bloomberg, Amazon, Dow Jones, IBM, Oracle, Reuters, and more

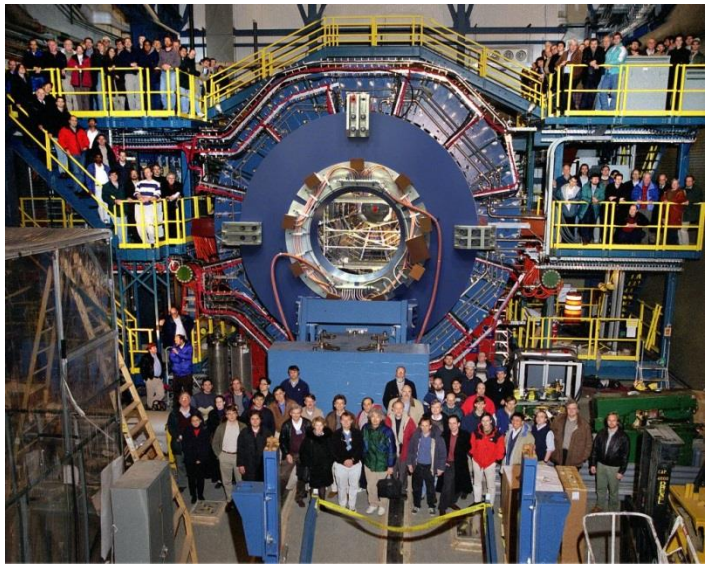
Affiliations

BROOKHAVEN
NATIONAL LABORATORY

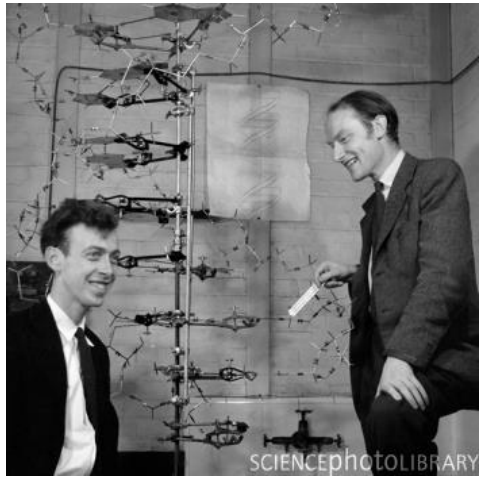


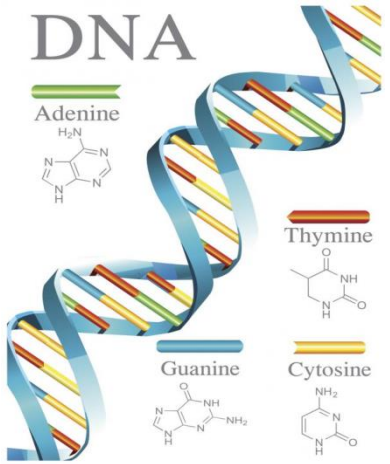






CSH
Cold
Spring
Harbor
Laboratory





Core Research Areas

Artificial Intelligence

Machine Learning

Data Analytics and Visualization

Computer Graphics

Cyber Security

Computer Networks

Mobile Computing

Computer Systems

Computational Theory

Computer Vision

Natural Language Processing

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Hot Topics in Computer Science

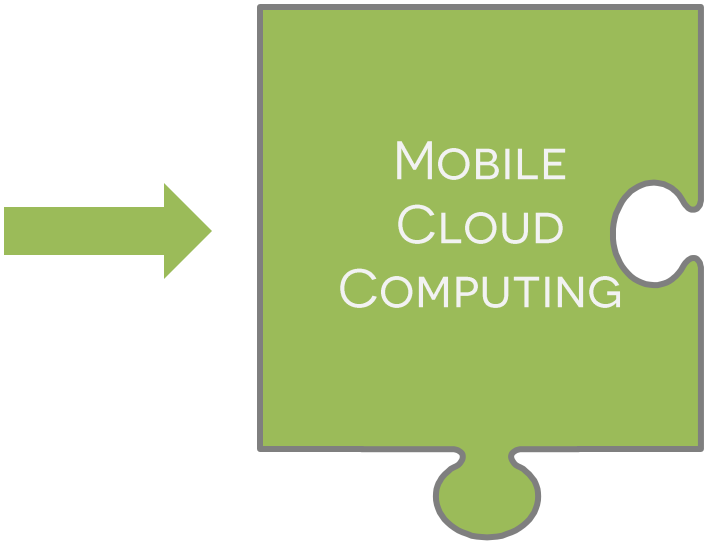
MEET THE TEAM

Pradipta De

Research Assistant Professor at Stony Brook University
Assistant Professor of Computer Science at SUNY Korea
Directs the Mobile Systems and Solutions (MoSyS) Lab
Former Research Staff Member of IBM Research, India
Senior member of the IEEE

Over 50 papers in peer-reviewed conferences
20 patents related to mobile and cloud technologies

Pradipta De



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Hot Topics in Computer Science

Dimitris Samaras

Associate Professor at Stony Brook University

DIGITEO Chair in Ecole Centrale de Paris.

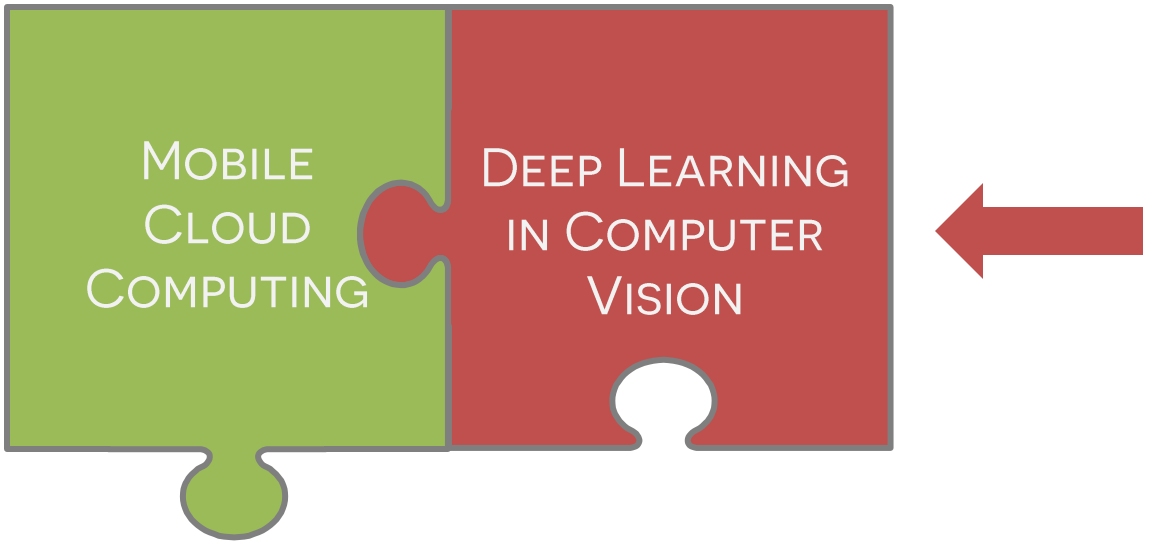
Director of the Image Analysis Laboratory at Stony Brook

Research interests:

study of illumination in images, deformable models, face recognition and expression analysis, categorical object recognition in human and computer vision, and statistical methods for the analysis of functional brain imaging data.

Over 100 articles in top Computer Vision, Graphics and Machine Learning venues with over 3,000 citations

Dimitris Samaras



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Hot Topics in Computer Science

Samir Das

Professor of Computer Science at Stony Brook University

Director of the Networking Technologies Division in CEWIT, the New York State Center of Excellence on Wireless and Information Technology

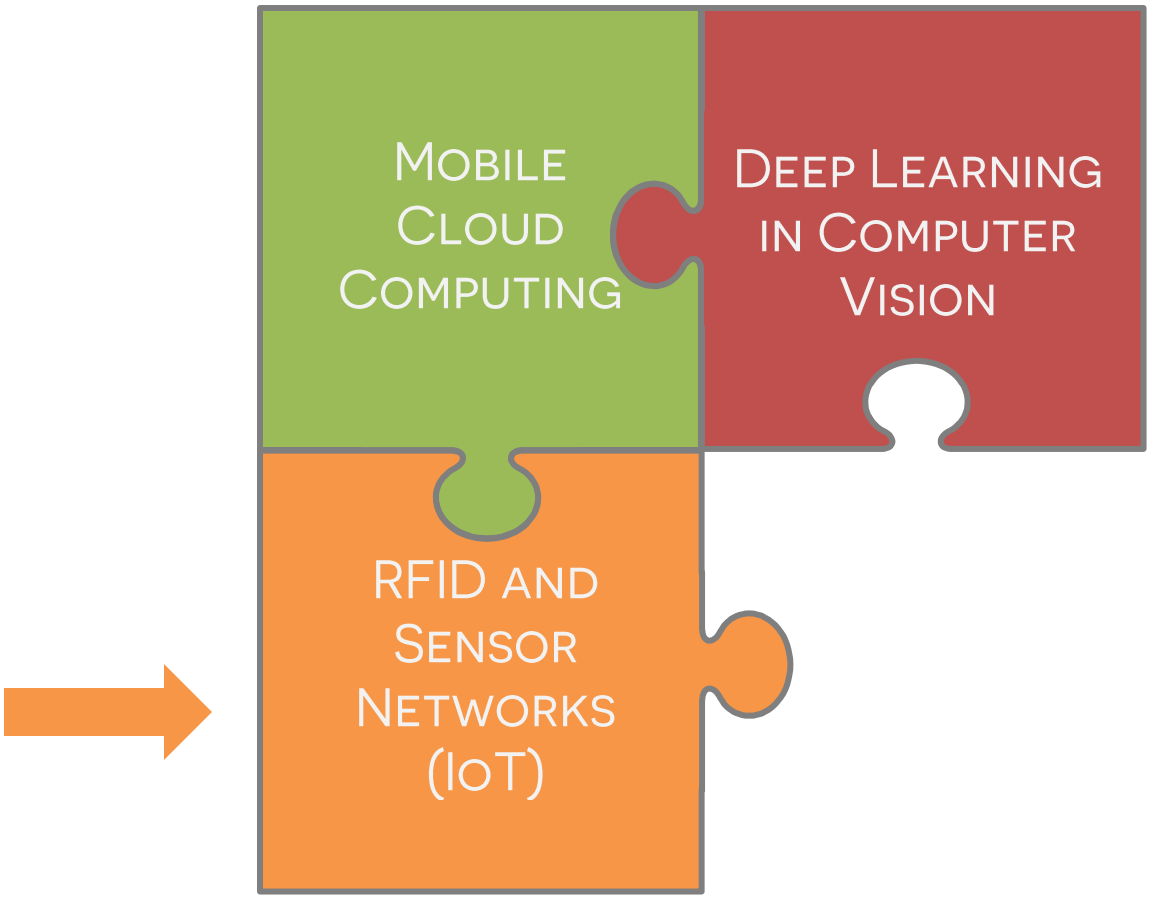
Research interests:

- wireless networking and mobile computing, focusing on protocols, systems and performance evaluation.

Won the U.S. National Science Foundation's CAREER award

Authored over 200 research articles with 36,000 citations

Samir Das



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Hot Topics in Computer Science

Klaus Mueller

Professor of Computer Science at Stony Brook University

Chair, Computer Science Department at SUNY Korea

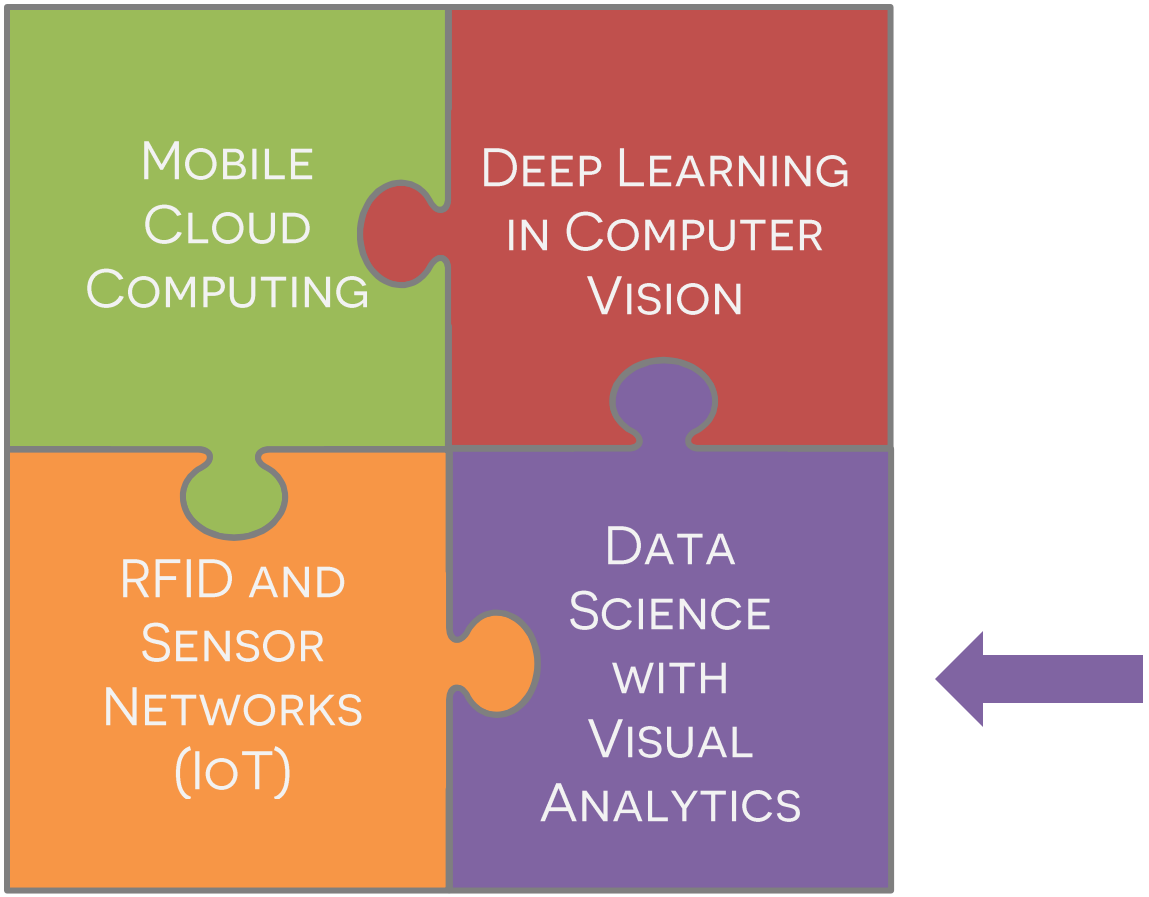
Research interests:

are computer graphics, visual analytics, medical imaging, and high-performance computing

Won the U.S. National Science Foundation's CAREER award and the SUNY Chancellor Award for Excellence in Creativity

Authored over 160 research articles with over 6,000 citations

Klaus Mueller



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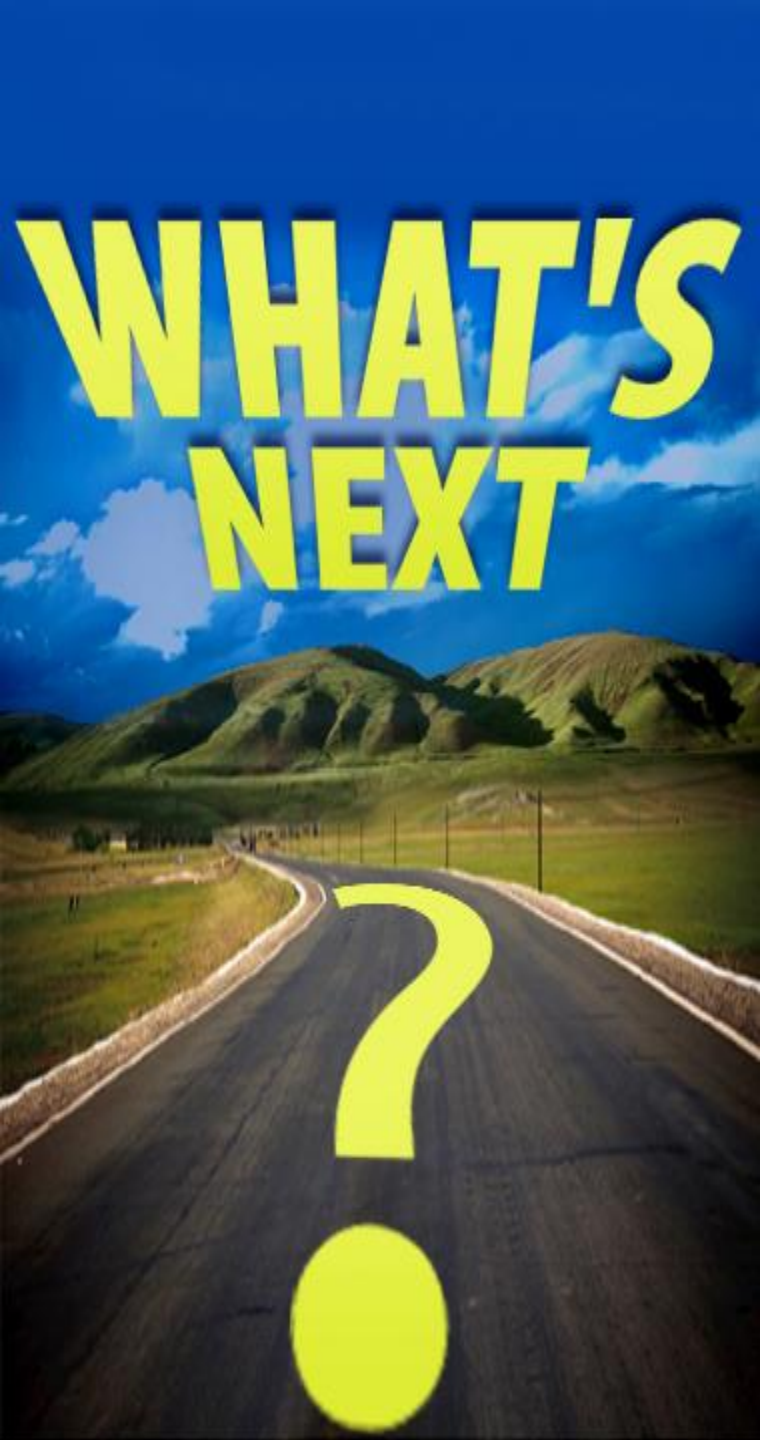
Program

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Registration Opening and Overview	Deep Learning: Origins (Samaras)	Mobile Cloud Computing: Applications (De)	Deep Learning: Computer Vision Applications (Samaras)	Team Projects: Final Presentations
15 min	Coffee Break				
10:45 - 12:00	Overview Continued	Team Projects: Snapshot Presentations			Awards Ceremony Closing
90 min	Lunch				
13:30 - 15:00	Data Science: Introduction (Mueller)	Mobile Cloud Computing: Algorithms (De)	Deep Learning: Modern Deep Architectures (Samaras)	Data Science: Applications (Mueller)	
15 min	Break				
15:15 - 16:45	Mobile Cloud Computing: Architectures (De)	Internet of Things: Network Protocols (Das)	Data Science: Visualization and Visual Analytics (Mueller)	IoT: Energy and Location Issues (Das)	
30 min	Recap				
18:30 ~	Team Projects: R&D				



30 min teaser talks by all speakers

- De
- Samaras
- Das
- Mueller

Suggestions for workshop projects

- follow them
- or suggest your own
- ideally combine two or more workshop themes for synergy

Teams

- teams of 2-3 students OK
- members must have clearly defined roles


QUESTIONS?