



*Leveraging Technology for a
Better Tomorrow*

IEEE Computer Society Distinguished Lecture

June 8, 2022, Wednesday, 6~ 7:30 PM

Online IEEE Computer Society Distinguished Lecture - "Innovations in IoT for a Safe, Secure, and Sustainable Future" - Speaker: Prof. Swarup Bhunia

**Joint Event hosted by
IEEE Computer New York Chapter,
IEEE Computer Long Island Chapter,
IEEE Computer the Mid-Hudson Chapter,
IEEE Computer New Jersey Coast Chapter,
IEEE Computer Schenectady Chapter,
IEEE Computer Boston Chapter and
IEEE Communications New York Chapter
IEEE Student Branch at LIU-Brooklyn
IEEE Student Branch at City College of Technology, CUNY**

WebEx Meeting Information Hosted by Webex MGA-New-York

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Wednesday, Jun 8, 2022 6:00 pm | 1 hour 30 minutes | (UTC-04:00) Eastern Time (US & Canada)

Meeting number: 2537 112 5881

Password: TMg33WtCMc5

Agenda:

6:00 PM Welcome Remarks

IEEE Promotion Video - IEEE- Engineers are the Solutionists of Tomorrow

Distinguished Lecture "Innovations in IoT for a Safe, Secure, and Sustainable Future"

6:15PM Introduce Speaker, Speaker: Prof. Swarup Bhunia

6:15~ 7:15PM, Presentation,

7:15 - 7:30 PM Q/A

Join by phone

+1-415-655-0002 United States Toll

1-855-282-6330 United States Toll Free

Access code: 253 711 25881

ABSTRACT:

Internet of Things (IoT) promises to usher in the fourth industrial revolution through an exponential growth of smart connected devices deployed in myriad application domains. It gives rise to new relationships between man and smart connected machines that might transform our everyday experiences. Such a transformation, however, builds on innovations at all levels in the IoT architecture – from edge devices to the cloud. In this talk, we will cover the IoT design practices and core technological challenges that need to be addressed to enable widespread deployment of IoT. We will focus on innovations in the areas of energy-efficiency, security, interoperability and intelligent decision making. Next, we will discuss several compelling applications of IoT that give unprecedented capability to us. In particular, we will cover applications of IoT in addressing some of the critical safety, security, and sustainability issues in our society.

Distinguished Visitor Bio: <https://www.computer.org/profiles/swarup-bhunia>



Dr. Swarup Bhunia is a preeminent professor, director of the Warren B. Nelms Institute for the Connected World and Semmoto Chair Professor of Internet of Things in the department of Electrical and Computer Engineering at University of Florida, Gainesville, FL, USA. Earlier, Dr. Bhunia has served as the T. and A. Schroeder associate professor of Electrical Engineering and Computer Science at Case Western Reserve University, Cleveland, OH, USA. He has over twenty years of research and development experience with over 250 publications in peer-reviewed

journals and premier conferences and ten edited or authored books (two upcoming) in the area of VLSI design, CAD and test techniques. His research interests include low power and robust design, hardware security and trust, adaptive nanocomputing and novel test methodologies. He has worked in the semiconductor industry on RTL synthesis, verification, and low power design for about three years. Dr. Bhunia received IEEE-CS TCVLSI Distinguished Research Award (2018), IBM Faculty Award (2013), National Science Foundation (NSF) career development award (2011), Semiconductor Research Corporation (SRC) technical excellence award (2005) as a team member,

Dr. Bhunia has been serving as founding editor-in-chief in Journal of Hardware and Systems Security (HaSS), an associate editor of IEEE Transactions on CAD (TCAD), IEEE Transactions on Multi-Scale Computing Systems (TMSCS), ACM Journal of Emerging Technologies (JETC), and Journal of Low Power Electronics (JOLPE). He is a distinguished ACM speaker and a senior member of IEEE.

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The event is free to attend. You are invited to register and attend the technical presentation. The virtual meeting link will be available at the event link once registered.