



conference^{'17}
@CEWIT

**EMERGING
TECHNOLOGIES
FOR A
SMARTER
WORLD**

13th International
Conference and Expo
November 7th & 8th
CEWIT

PROGRAM



Center of Excellence
WIRELESS AND INFORMATION TECHNOLOGY
AT STONY BROOK UNIVERSITY

WELCOME

This is the 13th International Conference and Expo on Emerging Technologies organized by the Center of Excellence in Wireless and Information Technology (CEWIT) at Stony Brook University. The Conference has gained international recognition as one of the premier conferences on the development and application of emerging technologies and for bringing together academic research and industrial innovation at a single forum. Our major sponsors of this year's conference include CA Technologies, Softheon, Zebra Technologies, Henry Schein, SVAM International, Northrop Grumman Corporation, JDA Software, Verint Systems, Nixon Peabody, Panasonic, and Carter, DeLuca, Farrell & Schmidt, LLP.

IT will continue to create new and highly profitable businesses that we have not even imagined. Machine Learning, IoT, Data Analytics, Smart Systems, Computational Chemistry and Biology, Edge Computing and other emerging technologies will span new industries. Machine Learning and AI applications will enhance the economy and computers will learn the way things work in the world. Computers will learn to perceive contexts and ability to learn like humans. The security, connectivity, privacy and standardization in the IoT world will be addressed to allow the extraction of insights from data. Internal data streams will be combined with data streams coming from the external world such as social media and industry for data scientists to build new algorithms to make quick and intelligent decisions. The digital divide will be reduced and cognitive learning will become part of smart systems and communities.

It is critical for those who are engaged in IT research to build strategic alliances and business partnerships among the academic, scientific, and business communities. Working with other organizations, technology commercialization activities can be formulated to help drive economic growth worldwide by quickly moving technologies from research labs to the marketplace.

Addressing this trend, the conference this year hosts a wide range of high-caliber speakers, including leading researchers, technologists, venture capitalists, executives and policy makers, and a broad international audience to discuss innovation in Health Technologies and Medical Devices, Smart Manufacturing, Cybersecurity, Internet of Things, Smart Urban Systems, Visual and Decision Informatics, and Technology Entrepreneurship.

Through this conference, we aim to disseminate research findings and innovative solutions to major technical challenges in developing a smarter global environment. The conference program includes many leading research and industry experts with more than 80 oral and poster presentations, and well as a 20-company delegation from Israel. It also provides networking opportunities for individuals engaged in research, development, and the commercialization of technologies.

My heartiest congratulations to all authors and welcome to all participants.

— Satya P. Sharma, PhD, MBA
Executive Director, The Center of Excellence in Wireless and Information Technology (CEWIT)

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CEWIT Leadership

Yacov Shamash
Vice President for
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Devices Division

Sangjin Hong
Director
Globalization

Lawrence Weber
Business Development
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in Residence

Bin Zhang
Associate Director
Computing Services



CEWIT 2017 is co-sponsored by IEEE Region 1 and its Long Island section. Peer-reviewed conference papers will be submitted for inclusion in the IEEE Xplore online database and EI.

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SCHEDULE AT A GLANCE

DAY 1 • TUESDAY, NOVEMBER 7, 2017

8:00am-6:30pm	International B2B Meetings
8:00am-9:00am	Registration, Continental Breakfast, & B2B Networking
9:00am-11:30am	Breakout Session 1 Track A: Health Technologies Track B: Smart Manufacturing Track C: Venture Capital Panel, Open Pitch Challenge & International B2B
11:45am-12:30pm	Opening Remarks & Keynote Speaker
12:30pm-1:45pm	Luncheon
1:45pm-4:00pm	Breakout Session 2 Track A: Health Technologies Track B: Internet of Things Track C: Pitch Clinic & Entrepreneur's Toolkit Talks
4:15pm-5:30pm	CTO Panel Plenary
5:30pm-6:30pm	Cocktail Reception, Research Poster Session & B2B Networking

DAY 2 • WEDNESDAY, NOVEMBER 8, 2017

8:00am-9:00am	Continental Breakfast & B2B Networking
9:00am-11:30am	Breakout Session 3 Track A: Cybersecurity Track B: Smart Urban Systems Track C: Entrepreneur's Toolkit Talks Track D: Visual & Decision Informatics Jointly Hosted By CEWIT & CVDI
11:45am-12:30pm	Closing Remarks & Keynote Speaker
12:30pm-1:30pm	Luncheon
2:00pm	Conference Adjourned

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CEWIT2017 APP

A comprehensive guide to CEWIT2017. Navigate the program, learn more about our expert speakers, and network with attendees, presenters, and sponsors. Search for contacts and request to connect. Meet your next big connection here.



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SCHEDULE TUESDAY

TUESDAY, NOVEMBER 7, 2017 • BREAKOUT SESSION 1 • 9:00AM-11:30AM

TRACK A HEALTH TECHNOLOGIES

Technical Innovations

Session Speakers

Social Determinants with Big Data & Machine Learning to Disrupt \$3T US Healthcare Market

Eugene Sayan, CEO, Softheon, Inc.

Taking the Big Leap from a Great Scientific Concept to Commercial Viability

Robert J. Beckman, Managing Partner, The Channel Group, LLC

Enplants: A Theoretical Transdisciplinary Cognitive Augmentation Technology Illustrating the Critical Role of Imagination in Envisioning Future Science Scenarios

S. Mason Dambrot, Research Fellow, Brain-Machine Interface Consortium, Artificial General Intelligence Society

Artificial Neural Network with Electroencephalogram Sensors for Brainwave Interpretation: Brain-Observer-Indicator Development Challenges

Nicholas Polosky, Associate Computer Scientist/Engineer I, ANDRO Computational Solutions, LLC

Cost, Convenience and Chaos Guide the Consumer Health Journey – Now What?!

Gil Bashe, Managing Partner, Global Health, Finn Partners

Qualitative Imaging Pathology (QuIP): Towards Generation, Management, and Exploration of Combined Radiomics and Pathomics Datasets for Cancer Research

Erich Bremer, Director for Cyberinfrastructure, Health Sciences Division of Applied Informatics, School of Medicine, Stony Brook University

TRACK B SMART MANUFACTURING

Technology Meets Manufacturing

Session Moderator

William Murray, Business Development, Digital & Additive Manufacturing, New York State Division of Science, Technology & Innovation (NYSTAR)

Session Speakers

Manufacturing USA and the Digital Manufacturing & Design Innovation Institute: Advancing Manufacturing Technologies Across the USA

Michael Fornasiero, Program Manager, Workforce Development and SMM Engagement, UI Labs

Digital Manufacturing Research and Applications

Michael Thurston, Research Professor and Director, Center of Excellence in Advanced & Sustainable Manufacturing, Rochester Institute of Technology

Data-driven Manufacturing System Modeling and Control

Qing Chang, Professor, Department of Mechanical Engineering, Stony Brook University

Smart Robots for Smart Manufacturing

John Wen, Professor and Head, Industrial and Systems Engineering (ISE), Rensselaer Polytechnic Institute

Cybersecurity Standards and Compliance Mandates

Randall Sandone, Executive Director, Critical Infrastructure Resilience Institute, University of Illinois at Urbana-Champaign

TRACK C BUSINESS

Venture Capital Panel

Session Moderator

Dan Conley, Shirt Sleeve Angel

Panelists

Adam Bazih, Executive-in-Residence, Kairos Ventures

Mark Elenowitz, Founder and CEO, TriPoint Global Equities

Thomas Thornton, Senior Vice President and Executive Director, Northwell Ventures

Brian Keil, Managing Director, New York Ventures, Empire State Development

Open Pitch Challenge & International B2B

Guest Judges

Sylvan Scheffler, Vice Chairman, Tigress Financial Partners

Neil Kaufman, Chairman, Long Island Capital Alliance and Corporate Attorney

Harvey Brofman, Managing Director, AngelFire Ventures

OPENING REMARKS & KEYNOTE SPEAKER • 11:45AM-12:30PM

Opening Remarks

Shmuel Einav, Director of Medical Technologies & Conference Chair, CEWIT

Keynote Speaker

Dan Bodner, President & CEO, Verint Systems

Artificial Intelligence - Applications and Customer Engagement

SCHEDULE TUESDAY

TUESDAY, NOVEMBER 7, 2017 • BREAKOUT SESSION 2 • 1:45PM-4:00PM

TRACK A HEALTH TECHNOLOGIES

Patient-Centric Care

Session Speakers

Aging in Place

**Elinor Schoenfeld, Research Professor,
Department of Family, Population
& Preventive Medicine,
Stony Brook University Medicine**

An Authentication Protocol for
Wearable Medical Devices

**Wei Lin, Associate Professor,
Department of Biomedical Engineering,
Stony Brook University**

A Virtual Reality Grocery Shopping
Game to Improve Health Awareness
in Young Adults

**Klaus Mueller, Professor, Department of
Computer Science, Stony Brook University**

How Technology is Shaping the
Future of People with
Developmental Disabilities

**Christos G. Morris,
CEO, eVero Corporation**

Telemedicine and Vulnerable
Populations: Improving Access and
Care For Those Who Need It Most

**James Powell, Clinical Instructor,
Department of Medicine;
Medical Director of Developmental
Disabilities Institute/
Opti-Healthcare Hospital,
Stony Brook University Medicine**

TRACK B INTERNET OF THINGS

Mobile Computing

Session Speakers

5G Wireless - Way More Than
Higher Data Rates

**Bob DiFazio, Vice President, InterDigital Labs,
InterDigital Communications, Inc.**

Joint Resource Allocation and Routing in
Wireless Cognitive Radio Networks

**Yang Qin, Associate Professor, Department of
Computer Science, Harbin Institute of Technology
Shenzhen Graduate School, China**

Robust Computation Offloading and Resource
Scheduling in Mobile Edge Computing

**Songtao Guo, Department of Computer Science,
Southwest University, China**

A Convolutional Neural Network for
Transit Mode Detection Based on
Smartphone Platform

**Grace Wang, Professor, Department of Computer
Science, New Jersey Institute of Technology**

Mobile Edge Cloud Architecture

**Sayed Chhattan Shah, Assistant Professor,
Department of Information Communication
Engineering, Hankuk University of Foreign Studies,
South Korea**

Can AC Computing be an Alternative for
Wirelessly Powered IoT Devices?

**Emre Salman, Associate Professor, Department
of Electrical and Computer Engineering,
Stony Brook University**

TRACK C BUSINESS

Pitch Clinic

Guest Judges

**Sylvan Scheffler, Vice Chairman,
Tigress Financial Partners**

**Neil Kaufman, Chairman, Long Island
Capital Alliance and Corporate Attorney**

**Harvey Brofman, Managing Director,
AngelFire Ventures**

Entrepreneur's
Toolkit Talks

Session Experts

Positioning Your Company
for Fundability

**Lori Hoberman, Founder,
Hoberman Law Group**

How to Assemble a
Board of Advisors

**David Calone, President and CEO,
Jove Equity Partners**

CHIEF TECHNOLOGY OFFICER PANEL • 4:15PM-5:30PM

Visioning the Future Trends in Information Technology

Moderator

Rich Bravman, Chief Strategy Officer, Affinity Solutions, Inc

Panelists

Otto Berkes, Chief Technology Officer, CA Technologies

Bruce Lieberthal, Vice President, Chief Innovation Officer, Henry Schein Inc.

Kamal Bherwani, Chief Technology Officer, Inversora Agroindustrial Global

Purna Prasad, Vice President and Chief Technology Officer, Northwell Health

COCKTAIL RECEPTION, RESEARCH POSTER SESSION & B2B NETWORKING • 5:30PM-6:30PM

SCHEDULE WEDNESDAY

WEDNESDAY, NOVEMBER 8, 2017 • BREAKOUT SESSION 3 • 9:00AM-11:30AM

TRACK A CYBERSECURITY

Session Speakers

Securing Software Updates in IoT: Does One Size Fit All?
Justin Cappos, Associate Professor, Department of Systems and Security, New York University

Challenge Cases for Collaboration with Industry and Academia in Anomaly Detection Algorithm Research
Steve Cento, Sector Engineering Fellow, Aerospace Systems (NGAS) Sector, Northrop Grumman Corporation

Android Security and Lifecycle Management
Bruce Willins, Engineering Fellow, Zebra Technologies

Inside Cybersecurity – Why Security is Failing?
Domenick Gandolfo, Co-Founder & Chief Security Strategist, Cybersafe Solutions

IPv6 Based WSN Performance Analysis
Babak Beheshti, Associate Dean, School of Engineering and Computing Sciences, New York Institute of Technology

A Cloud Computing Service that Protects Client Devices and Enterprises from Malware in Email Attachments and Web Sites
Rick Boivie, Manager, Advanced Internet and Security Technologies, IBM Research

Cybersecurity Challenges of Systems-of-Systems for Fully-Autonomous Road Vehicles
Warren Axelrod, Research Director, U.S. Cyber Consequences Unit

TRACK B SMART URBAN SYSTEMS

Session Speakers

Research and Modeling for Intelligent Fault Diagnosis of Air Conditioning System in Electric Bus
Yi Zhong, Professor, School of Information Engineering, Wuhan University of Technology, China

Mobile IPv6 Protocols and High Efficiency Video Coding For Smart City IoT Applications
Daniel Minoli, Principal Consultant, DVI Communications

Forewarned is Forearmed – Predicting Construction Related Traffic Conditions
Mark Yedlin, Director of Simulation Modeling Services, Greenman-Pedersen, Inc.

Improving the Consumption and Water Heating Efficiency in Smart Buildings
Danilo de Freitas Melo, Professor, Federal Center for Technological Education of Minas Gerais (CEFET-MG), Brazil

Smart Buildings and Smart Cities and Everything Around Them
Dan Turissini, Chief Technology Officer, SPYRUS, Inc.

Determining Optimal Locations of Electrified Transportation Infrastructure on Interstate/ US-Highways
Mahmoud Alahmad, Associate Professor, College of Engineering, University of Nebraska-Lincoln

Can AC Computing be an Alternative for Wirelessly Powered IoT Devices?
Emre Salman, Associate Professor, Department of Electrical and Computer Engineering, Stony Brook University

Panasonic LinkRay Solution: Information at the Speed of Light
Oliver Akinrele, Deputy Director, Panasonic Innovation Center

TRACK C BUSINESS Entrepreneur's Toolkit Talks

Session Experts

What is Patentable?
George Likourezos, Partner, Carter, Deluca, Farrell & Schmidt, LLP

Tax Matters for Technology Ventures
Karen O'Connor, Tax Director, Marcum, LLP

How to Identify and Win SBIR Contracts
Marcie Sonneborn, SBIR & Innovation Specialist, Central New York Technology Development Organization (TDO)

Alan Alda Center for Communicative Science
Valeri Lantz-Gefroh, Improvisation Program Director, Alan Alda Center for Communicative Science, Stony Brook University

TRACK D VISUAL AND DECISION INFORMATICS Jointly Hosted by CEWIT & CVDI

CVDI Visual Exploration of Big Data
Arie E. Kaufman, Distinguished Professor, Department of Computer Science; Chief Scientist, CEWIT, Stony Brook University

Semantic Information Integration and Applications in Biomedical and Healthcare Domains
Yuan An, Associate Professor, College of Computing and Informatics (CCI), Drexel University

Reinforcement Learning Based Decision Informatics in CVDI
Peter A. Beling, Professor of Systems and Information Engineering, University of Virginia

Crossroads Between Signal Processing and Machine Learning – CVDI Approach
Moncef Gabbouj, Director, NSF IUCRC Center for Visual and Decision Informatics, TUT-Site, Department of Signal Processing, Tampere University of Technology

Data Management for Visual Analytics on Data Streams
Raju Gottumukkala, Ph.D., Director of Research, Informatics Research Institute, University of Louisiana Lafayette

CLOSING REMARKS & KEYNOTE SPEAKER • 11:45AM-12:30PM

Closing Remarks

Satya Sharma, Executive Director, CEWIT

Keynote Speaker

Kimihiko Okubo, President & CEO, DOCOMO USA

Working Toward a Smarter Society

SPEAKERS

KEYNOTES



DAN BODNER
President & CEO,
Verint Systems

Verint is a global leader of Actionable Intelligence data mining software with over \$1B in annual revenue, 5,000 employees and more than 10,000 customers worldwide.

Mr. Bodner, Verint's President and CEO, started the company in 1994 with a focus on Actionable Intelligence innovation, reflecting his vision of helping organizations gain actionable insights from large amounts of structured and unstructured data. Under Dan's leadership, the company had a successful IPO in 2002 and is listed on the NASDAQ exchange under the symbol VRNT. Today, Verint is a recognized global market leader and visionary in two Actionable Intelligence growth markets: Customer Engagement and Cyber Intelligence. Mr. Bodner holds a B.Sc. degree in Electrical Engineering and a M.Sc. degree in Telecommunications and Computer Science.



KIMIHIRO OKOBU
President & CEO,
DOCOMO USA

Mr. Okubo has more than 20 years of experience at NTT DOCOMO, INC. NTT DOCOMO USA, Inc. investigates business development opportunities in the wireless

space in the Americas. The company engages in conducting research on IT, and wireless business trends and regulatory environment; operates and markets mobile phone services to customers in the United States; and provides mobile solutions for corporate customers. It also provides portable Wi-Fi router and cellular phone rental services. The company was founded in 1999 and is headquartered in New York, New York. It has additional offices and customer support desks in Los Angeles, San Jose, and Torrance, California; Washington D.C.; Honolulu, Hawaii; New York, New York; Chicago, Illinois; and New Jersey. NTT DOCOMO USA, Inc. operates as a subsidiary of NTT DOCOMO, Inc.

CHIEF TECHNOLOGY OFFICER PANEL



PANELIST
OTTO BERKES
CTO, CA Technologies

As chief technology officer of CA Technologies, Otto Berkes is responsible for technical leadership and innovation, further developing the company's technical community, and aligning its software strategy, architecture and partner relationships to deliver customer value. Otto joined CA on June 15, 2015. As a 25-year industry veteran, he has a passion for innovation and development. He has extensive experience leading the development of cutting-edge products and technologies. An early champion of mobile computing, he led the development of touch-based technologies, user interfaces, hardware architectures, and physical designs that were the forerunners to today's tablets.



PANELIST
BRUCE LIEBERTHAL
Vice President, Chief Innovation Officer,
Henry Schein, Inc.

Bruce serves as the Chief Innovation Officer for Henry Schein, Inc., reporting to Jim Harding, Henry Schein's Global CTO. Previously, from 2009 until this year, he was the Vice President, Emerging Technologies for Henry Schein, Inc., reporting to the president of Schein's Global Practice Solutions Group. Bruce also has oversight responsibility for Henry Schein Medical Systems (MicroMD) and the DDX business. He led the ConnectDental team for 2 years and currently works closely with the Corporate Business Development Group advising them on technology opportunities. He started, at Henry Schein, as the Director of Product Management to the leadership team in Utah when Discus Dental Software was acquired by HSI in May 2007 and was promoted, in 2008, to Vice President of Product Management and Development, managing all of HSPS' software lines and development teams.

Bruce was the founder of Direct Vision Software, the General Manager of Discus Dental Software and has been a leader in dental technology for more than 30 years. He practiced dentistry for 14 years between 1984 and 1997, and brings much knowledge to the Henry Schein team.



PANELIST
DR. PURNA PRASAD
Vice President & CTO, Northwell Health
Dr. Purna Prasad is a recognized leader and researcher in the field of clinical information technology and biomedical engineering with three decades of experience, now serving as the Vice President and Chief Technology Officer for

Information technology at Northwell Health. Dr. Prasad has directed best-practice projects and enterprise change management efforts to ensure continuity of mission-critical clinical systems serving the highest caliber of patient diagnostic, monitoring, and therapeutic support. Purna's pioneering work in biomedical research resulted in the first networked physiological monitoring system for acute care, distant patient care using telemedicine, computerized brain monitoring system, sleeping brain monitoring and diagnosis, and application of robotics in medicine.



PANELIST

KAMAL BHERWANI

CTO, Inversora Agroindustrial Global
Kamal Bherwani serves as the Chief Technology Officer of Inversora Agroindustrial Global (IAG, S.L.) leading technology strategy, architecture and operations, both on front-office side and the

back-office parts of IAG's businesses. He also serves as Managing Director of Technology Investments and oversees all phases of investments in technology companies for the Group. Mr. Bherwani's technology career spans over 25 years where he has served as a Senior Technology Manager of multi-billion dollar enterprises, both in the public and private sectors and has served on the Board of several non-profit, technology and investment organizations. Mr. Bherwani served as the Chief Digital Officer of Promotora de Informaciones, S.A. (Grupo Prisa SA. PRISA) since January 2010. Mr. Bherwani has over twenty-two years of technology and operational experience.

He served as the Chief Information Officer of Health & Human Services and Executive Director of HHS-Connect for the City of New York, where he implemented several award-winning initiatives that have been globally and nationally recognized. He served as Chairman and Chief Executive Officer of Relativity Development Corporation and Chief Information Officer of Bidas Corporation. He serves as the Chairman of HZO, Inc. He serves as the Chairman of Magine TV and is on the Board of Directors of Bounty Hunter and Chatterbox, Punch.in, Carteira.

Mr. Bherwani is Advisor to the Mayor's Office of the City of New York, Stony Brook University's Center of Excellence in Wireless and Information Technology (CEWIT) Advisory Board and on the Board of Advisors of Violy and Company. Mr. Bherwani also serves on multiple Advisory Boards, including IBM Cloud and Smarter Infrastructure Advisory Board and Dell's President's Advisory Board. He serves as a Director of HZO, Inc.



MODERATOR

RICH BRAVMAN

Chief Strategy Officer, Affinity Solutions, Inc
Panel moderator, Rich Bravman serves as the Chief Strategy Officer of Affinity Solutions, Inc. He served as the Chief Operating Officer

at Affinity Solutions, Inc. since August 2013. Mr. Bravman was an Executive Advisor at Forté Ventures LP. He served as the President and Chief Executive Officer of Pivot3, Inc. He served as the Chief Marketing Officer and Vice President of Corporate Development at NCR Corp. since December 2009. He is an entrepreneurial leader with over 37 years of functional, general management and board level experience in technology companies ranging in scale from start-up to global S&P 500 public companies. He has a proven track record in strategy formation, team building, fund raising, marketing, engineering, corporate development, product planning and operations.

CEWIT LEADERSHIP



YACOV SHAMASH

Vice President for Economic Development, Stony Brook University
Dr. Shamash is the Vice President for Economic Development at Stony Brook University. As Vice President, Dr. Shamash supervises the University's four incubators, three New York State Centers for

Advanced Technology, the Center of Excellence in Wireless and Information Technology (CEWIT), the Advanced Energy Research and Technology Center, the Small Business Development Center, and the workforce development programs of the Center for Emerging Technologies. In 1995, Dr. Shamash led SUNY's colleges of engineering to create the statewide Strategic Partnership for Industrial Resurgence (SPIR) program. Stony Brook's cumulative results include more than 2,985 projects completed with more than 480 companies, helping company partners win more than \$95 million in competitive federal awards. During the period from 1992 to 2015 Dr. Shamash served as Dean of the College of Engineering and Applied Sciences at Stony Brook University. Under his leadership, the College has grown from 1500 to over 5000 students with average SAT scores of entering UG students increasing from 1150 to 1343, and external research expenditures increased six fold to \$30 million. Prior to joining Stony Brook in 1992, Dr. Shamash served as the Director of the School of Electrical Engineering and Computer Science at Washington State University and was responsible for the establishment of a National Science Foundation Industry/ University Center for the Design of Analog/ Digital Integrated Circuits. He is a member of the Board of Directors of Keytronic, American Medical Alert and Applied DNA. He is also a member of the Board of Directors for the Long Island Software & Technology Network (LISTnet) and the Long Island Angel Network. Dr. Shamash has held faculty positions at Florida Atlantic University, the University of Pennsylvania and Tel Aviv University. He received his undergraduate and graduate degrees from Imperial College of Science and Technology in London, England. He has authored more than 130 publications and is a Fellow of the IEEE.



SATYA SHARMA

Executive Director, CEWIT
Dr. Satya Sharma came to Stony Brook University as the Executive Director of CEWIT and a faculty member of Department of Mechanical Engineering in 2003. Before joining Stony Brook, Dr. Sharma was Senior Vice President at Symbol Technologies from 1995 to

2003, overseeing various divisions of the company including World-Wide Operations, Mobile Computing & Wireless Engineering, and Quality & Process Improvements. Prior to his tenure at Symbol, he was Director of AT&T Power Systems and an adjunct professor at Southern Methodist University. Dr. Sharma has managed technology, led product development, managed marketing and financial functions, led operations and taken a leadership role in organizational transformation. He led Lucent Technologies to win the Deming Prize in 1994, making it the first and still the only American manufacturing company to have this honor. While leading Symbol's Mobile Computing & Wireless Engineering, the company won the National Medal of Technology in 2000. Dr. Sharma also led Lucent and Symbol to win the Shingo Prize in 1992 and 2003 respectively. Dr. Sharma has more than 70 technical publications and conducts research in a wide variety of disciplines. He holds a Ph.D. degree in mechanical engineering from University of Pennsylvania and an MBA degree from Ohio State University.

SPONSORS

CA TECHNOLOGIES

CA Technologies helps customers succeed in a future where every business—from apparel to energy—is being rewritten by software. With CA software at the center of their IT strategy, organizations can leverage the technology that changes the way we live—from the data center to the mobile device. Our business management software and solutions help our customers thrive in the new application economy by delivering the means to deploy, monitor and secure their applications and infrastructure. Our goal is to help organizations develop applications and experiences that excite and engage and, in turn, open up money-making opportunities for their businesses.

SOFTHEON

At Softheon, we strive to create simple solutions to complex problems. Our turnkey Software-as-a-Service (SaaS) and Business Process as a Service (BPaaS) solutions have provided end-to-end tracking, monitoring, and reporting of business activities for over 15 years. These channels are related to individual and small group enrollment, financial management, and customer relationship processes. Understanding that healthcare is constantly evolving, our solutions can be deployed and configured within 90 days. This agile development process positions us to quickly adapt and adhere to the latest regulatory developments. Continuing our history of success, we are proud to be trusted by 37% of healthcare payers participating on public exchanges, managing 24% of their membership. To find out more about Softheon, visit www.softheon.com.

ZEBRA TECHNOLOGIES

Zebra Technologies Corporation builds actionable information and insight, giving companies unprecedented visibility into their businesses by giving physical things a digital voice. Zebra's extensive portfolio of solutions give real-time visibility into everything from products and physical assets to people, providing very precise operational data not only about where things are, but what condition they are in. This allows business leaders to use data to make better, more informed decisions, respond, and ultimately, help businesses understand how they work, and how they could work better.

NORTHROP GRUMMAN CORPORATION

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in unmanned systems, cyber, C4ISR, and logistics and modernization to government and commercial customers worldwide. We hold ourselves to a higher standard, both in the products we deliver and in the way we conduct ourselves throughout the entire customer experience. Because, after all, we are in the business of securing a great deal more than just our place in the market. Our mission is to be at the forefront of technology and innovation, delivering superior capability in tandem with maximized cost efficiencies. The security solutions we provide help secure freedoms for our nation as well as those of our allies. Squarely meeting our obligations, fiscally and technologically, isn't just a business goal, but a moral imperative. To that end, as we evolve as a company, the responsibility we feel for our country and the citizens and troops we help support grows with us.

SVAM INTERNATIONAL INC.

SVAM International is a Global Information Technology services provider that delivers value and competitive advantage to its customers by improving their access to critical information, automating business processes, and helping their personnel collaborate effectively. We specialize in IT Staffing, Big Data & Analytics, Web Collaboration, Mobile and Custom Application Development.

HENRY SCHEIN, INC.

Henry Schein, Inc. is the world's largest provider of health care products and services to office-based dental, animal health, and medical practitioners. The company also serves dental laboratories, government and institutional health care clinics, and other alternate care sites. A Fortune 500® Company and a member of the S&P 500® and Nasdaq 100® Indices, Henry Schein employs more than 21,000 Team Schein Members and serves more than one million customers. Headquartered in Melville, N.Y., Henry Schein has operations or affiliates in 32 countries. The company's sales reached a record \$11.6 billion in 2016, and have grown at a compound annual rate of approximately 15 percent since Henry Schein became a public company in 1995.

VERINT SYSTEMS

Verint. Powering Actionable Intelligence. Verint (Nasdaq: VRNT) is a global leader in Actionable Intelligence solutions that empower organizations with crucial insights, enabling decision makers to anticipate, respond, and take action. Our solutions and value-added services help organizations of all sizes and across many industries make more informed, timely, and effective decisions. Since our founding over two decades ago, we have built domain expertise in the areas of customer engagement and cyber intelligence. Today, we have established leadership positions in these respective markets by developing highly-scalable, enterprise-class software and services with advanced, integrated analytics for both structured and unstructured information. Headquartered in Melville, New York, Verint supports customers around the globe directly and with an extensive network of selling and support partners. Today, over 10,000 organizations in more than 180 countries, including over 80 percent of the Fortune 100, use Verint solutions to enhance customer engagement performance and make the world a safer place.

JDA SOFTWARE

JDA Software is the leading supply chain provider powering today's digital transformation. We enable companies to improve their ability to plan, execute and deliver by better predicting and shaping demand, fulfilling more intelligently and quickly, and improving customer experiences and loyalty. More than 4,000 global customers use our unmatched end-to-end solutions portfolio to shorten their supply chains, increase speed of execution and profitably deliver to their customers. Our world-class client roster includes 72 of the top 100 retailers, 71 of the top 100 consumer goods companies, and 13 of the top 16 3PLs. Running JDA, you can plan to deliver.

NIXON PEABODY

Nixon Peabody provides the practice diversity and deep bench on Long Island to address a full range of business legal needs, from formation, financing and intellectual property services needed by life sciences and other technology-driven businesses, to dispute resolution, real estate and workforce issues. Our depth also includes top trial attorneys who handle complex litigation and class actions; a nationally recognized health services team; an M&A team capable of handling complex, strategic and private equity transactions on either side of the deal; and industry leaders tracking the unique needs of higher education institutions and nonprofits.

ISRAELI INNOVATION AUTHORITY AND ECONOMIC MISSION TO NORTH AMERICA

The Israel Innovation Authority, formerly known as the Office of the Chief Scientist of the Ministry of Economy (& MATIMOP), which is responsible for the country's innovation policy, is an independent and impartial public entity that operates for the benefit of the Israeli innovation ecosystem and Israeli economy as a whole. Its role is to nurture and develop Israeli innovation resources, while creating and strengthening the infrastructure and framework needed to support the entire knowledge industry.

PANASONIC

Panasonic Corporation is a worldwide leader in the development of diverse electronics technologies and solutions for customers in the consumer electronics, housing, automotive, enterprise solutions and device industries. Since its founding in 1918, the company has expanded globally and now operates 474 subsidiaries and 94 associated companies worldwide, recording consolidated net sales of 7.553 trillion yen for the year ended March 31, 2016. Committed to pursuing new value through innovation across divisional lines, the company uses its technologies to create a better life and a better world for its customers.

SILVERMAN ACAMPORA, LLP

SilvermanAcampora LLP is a full-service law firm, based in Jericho, NY (Long Island) serving the entire tristate (New York, Connecticut, New Jersey) region. Founded in 1999 by Kenneth Silverman and Anthony Acampora the firm quickly established itself as one of the premier law firms in New York state. Practice groups include; Corporate, Litigation, Employment & Labor, Real Estate, Trusts & Estates, Government & Compliance, Corporate Restructuring & Bankruptcy.

CARTER, DELUCA, FARRELL & SCHMIDT, LLP

Carter DeLuca Farrell & Schmidt, LLP, a leader in intellectual property law, provides cost effective services to a large cadre of national and international clients. Throughout the phases of product or brand development, we form a critical part of our client's development teams to provide preparation, prosecution and clearance services to maximize protection while navigating through freedom-to-operate challenges. We also provide extensive IP due diligence services and follow on IP asset assimilation to help our clients achieve their business objectives.

APPLIED VISIONS

Applied Visions can build you software products that drive revenue, or enterprise applications that optimize the value of your business. From cloud through mobile devices to the embedded Internet of Things, our user-centric design approach yields engaging and effective experiences that make sales and maximize return on your software investment.

CODE DX

Code Dx Enterprise is a software vulnerability management system that consolidates and normalizes software vulnerabilities detected by multiple static application security testing (SAST) and dynamic application security testing (DAST) tools, as well as the results of manual code reviews. Its visual analytics accelerate the finding, triage, prioritizing and fixing of software vulnerabilities to dramatically expedite remediation. Code Dx addresses the needs of a variety of users who influence software security decisions that affect an organization's exposure to cyber attacks or liability associated with such attacks.

INTELIBS

Intelibs develops and provides unique 3G, 4G and WiFi wireless coverage and capacity solutions with products and services for Distributed Antenna Systems (DAS) to meet U.S. carrier and enterprise wireless needs. Intelibs specialized to offer the Hybrid DAS solutions for large corporate, higher educational institution campuses where they need indoor and outdoor seamless wireless mobility. Hybrid DAS solution provides unified RF coverage with multi-technology, multi-carrier platform with scalable and flexible network architecture for variety of venues from single high rise to multi complex such as University campus, corporate building, hospitality and healthcare. Intelibs provides the turnkey solution for the wireless carriers and venue owners including the wireless equipment procurement, site survey, design, commissioning, optimization and remote monitoring and maintenance. With the unique carrier grade WiFi and 3G/4G cellular coverage solution, Intelibs provides the innovative business model enabling both the venue ownership and wireless service providers to work together to build the true mobility with the simple finance model.

MEDPOD

A leader in digital health and a trusted health-care solutions partner with extensive clinical research and medical technology expertise, Medpod is meeting the difficult challenges of healthcare head-on. Medpod is equipping providers with a whole new approach to delivering efficient yet exceptional care. The advantage for practitioners: more effective and efficient care delivery for building patient retention. The benefit for patients: earlier and increased access to care for improved treatment outcomes. Medpod develops, aggregates and integrates medical software, hardware and physical infrastructure into seamless, innovative care delivery solutions. Medpod builds upon the foundation of telemedicine, while completely reinventing it! The result: better healthcare, delivered more efficiently — further, faster, and more cost-effectively.

STS GLOBAL INC.

STS Global design, integrate complex satellite networks to support military, broadcast and wireless telecommunication applications. By adding satcom to today's widely developed terrestrial technologies, we create unique systems providing reliable services anywhere on earth. Customers will appreciate the Cost/Value approach, 24/7 dependability, training and support to achieve peak performance.

STONY BROOK UNIVERSITY

Stony Brook University is one of America's most dynamic public universities, a center of academic excellence and an essential part of the region's economy. U.S. News & World Report ranks Stony Brook among the top 40 public universities in the nation, and the Times Higher Education World University Rankings places us among the top 1 percent of all the universities in the world. A member of the prestigious, invitation-only Association of American Universities, Stony Brook is one of the 62 leading research institutions in North America and the co-manager of Brookhaven National Laboratory. Stony Brook's 1,040-acre campus on Long Island's North Shore encompasses not only the main academic areas of the University, but also Stony Brook Medicine, which includes the five health sciences schools, Stony Brook University Hospital, Stony Brook Long Island Children's Hospital, the Long Island State Veterans Home, and our major healthcare centers, programs and clinics

IOT MAGAZINE

The #1 place to learn about IoT. It is a platform for IoT enthusiasts to share and learn all about latest trends and technologies. Experts, authors, developers and thought leaders come together and share their learnings, research studies, projects or anything that adds value to our audience.

CIO APPLICATIONS

CIO Applications is a new generation print magazine focusing on the applications of technology in medium to large enterprises. We focus on the ways in which businesses are leveraging technology to efficiently run their operations, offer new products, and services to their customers and how they maximize their return on investments on their technology spend. Published from the hub of technology, Silicon Valley, we bring to our subscribers collective expertise, experiences and insights of thousands of business oriented senior technologists working in all industry verticals in the U.S. This knowledge base from industry insiders is augmented by our experienced and strong research team to keep our subscribers up to date on how established and new technologies can be leveraged to provide an engine for growth for their businesses.

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