



# Center of Excellence

WIRELESS AND INFORMATION TECHNOLOGY

AT STONY BROOK UNIVERSITY

## NEWSLETTER

DECEMBER 2017

Up Next in 2018, Hack@CEWIT Returns,  
New to the Tech Incubator Team, Leading  
Discoveries, CEWIT2017 Highlights

CEWIT is an unparalleled resource,  
advancing the science and  
technology underlying the next  
epoch of the information  
revolution.



Up Next in 2018!

# SAVE THE DATES

**16  
FEB**

Hack@CEWIT  
2018

**16  
OCT**

CEWIT2018  
Conference

Colleagues,

As we approach the new calendar year, please **save the date for the CEWIT2018 Conference, October 16-17, 2018** at the Center of Excellence in Wireless and Information Technology (CEWIT) at Stony Brook University.

Based on your much-appreciated comments and feedback, we have decided to schedule the event in mid-October, again here at the Center.

This year, we welcomed over 260 international attendees and 80 technical and business experts in 10 sessions across the two-day event, as well as a 20-company delegation from Israel. In addition to disseminating research findings and innovative solutions to major technical challenges, the conference was well praised for the networking opportunities it provided to those attendees engaged in IT research, development, and technology commercialization.

As it is critical to continue to build strategic alliances and business partnerships among the academic, scientific, and business communities, we are pleased to have your continued support of the conference and we look forward to you again joining us in 2018.

**Next up, Hack@CEWIT 2018!**

Our thanks and best wishes for a happy holiday season and a happy new year.

Sincerely,  
The CEWIT Team



hack<sup>'18</sup>

@CEWIT

CENTER OF EXCELLENCE OF WIRELESS  
AND INFORMATION TECHNOLOGY  
AT STONY BROOK UNIVERSITY

February 16-18, 2018



**NEW  
TO THE  
TEAM**

## Medical informatics firm ZyDoc Corp. joins the Center of Excellence in Wireless and Information Technology's tech incubator as part of the Stony Brook University Incubator Program

At CEWIT, we're less concerned with a member company's age than its ability to promote Long Island's tech-based economy. Our newest member, 24-year-old tech innovator, ZyDoc, joins our startup haven to continue driving new interdisciplinary enterprise development.

**Fitting right in, ZyDoc's quest for new healthcare-related knowledge-management technologies brings both veteran expertise and cutting-edge innovation to the Center.** The well established provider of cloud-based and mobile-app medical transcription platforms has been known, over the past two-and-a-half decades, to constantly reinvent itself.

ZyDoc has reached considerable heights, pivoted and achieved success more than once, starting in 1993, when it developed one of the first widely accepted Electronic Medical Records software suites, which was eventually sold to the U.S. Department of Defense.

In 1999, the already-soaring startup's speech-recognition medical-language models were bundled into popular Dragon NaturallySpeaking software suites marketed by Massachusetts-based tech company Nuance Communications Inc.

Then, in 2003, ZyDoc shifted gears, refocusing on web-based transcription services and embarking on a new mission to increase physician efficiency, improve patient outcomes, lower malpractice risks and better manage private-practice revenues. At the heart of this effort is MediSapien, the company's proprietary, enterprise-class, web-based knowledge-management platform, which incorporates disruptive natural-language processing and artificial-intelligence technologies.

Now, with its B2B knowledge-management and data-capture services thriving in the healthcare sector, ZyDoc will look to reset the industry standard again, with its CEWIT-based R&D team leveraging the Incubator Program's resources and services.



# LEADING DISCOVERIES

## **CEWIT chief scientist Dr. Arie Kaufman and distinguished professor of biomedical engineering Dr. Clint Rubin elected 2017 National Academy of Innovators fellows**

According to the National Academy of Innovators (NAI), election as an NAI Fellow is a high honor bestowed upon academic innovators and inventors who have demonstrated a prolific spirit of innovation in creating or facilitating outstanding inventions and innovations that have made a tangible impact on quality of life, economic development, and the welfare of society. Stony Brook University distinguished professors Kaufman and Rubin will be inducted as NAI Fellows during its 2018 national meeting in Washington, DC, on April 5.

**"The discoveries of Arie Kaufman and Clinton Rubin have made a remarkable impact on the Stony Brook University research enterprise and have helped advance the fields of computer science and biotechnology,"** said Samuel L. Stanley Jr., MD, President of Stony Brook University. Professor Kaufman is well known internationally for developing 3D virtual colonoscopy, a licensed and FDA-approved colon cancer screening technology. He is also the chief architect of the Reality Deck, a visualization facility at CEWIT that interprets big data in many fields. Professor Rubin, founding chair of Stony Brook's Department of Biomedical Engineering, pioneered research in understanding the role of mechanical signals in the musculoskeletal system and has patented technology that includes use of low frequency mechanical signals (vibrations) to combat disease like osteoporosis and obesity.



## AI & CUSTOMER ENGAGEMENT

## Highlights from the November CEWIT2017 Conference on emerging tech for a smarter world

### The Future of Customer Service

Verint CEO Dan Bodner's keynote address described how artificial intelligence will help shape the future of customer service. In his CEWIT2017 address, he said that consumers are demanding easy and productive interactions when they contact a company. This translates to organizations such as banks placing a high value on customer engagement. "To create a competitive differentiation, banks need to focus on engaging customers," he said. "Artificial intelligence is a technology that could have a very big impact on this industry." Melville-based Verint's \$1.1 billion in revenue during fiscal 2017 ranks it among the 10 largest public companies on Long Island.



## DIGITAL CONNECTIONS

### Smart Manufacturing Insights

JDA Software's Glen Ceniza shares his experiences from the CEWIT2017 Conference. Though the conference was not focused specifically on supply chain, JDA's specialty, hearing the impact of digital on human learning, health technologies, smart cities, manufacturing, cybersecurity, and video capture, for Ceniza, reinforced the importance of digital connections between businesses and consumers. Ceniza said, "This conference showed the pervasiveness of the digital connections and how they will increasingly connect all aspects of our lives, both personally and professionally."



## TOP STUDENT RESEARCH

### CEWIT2017 Student Poster Awards

Stony Brook University Department of Computer Science graduate students Ailsa Yurovsky and Shahira Abousamra take home CEWIT2017 Best Poster awards for their innovative research on Word Embeddings for Genome Annotation with Deep Learning and Automating Lifecycle-Phase Identification in Microscopy Images of Zebrafish Embryos, respectively.

# OUR COMMUNITY

The Advanced Energy Center

Center for Advanced Technology in  
Diagnostic Tools and Sensor Systems  
(Sensor CAT)

The Center for Biotechnology

The Center for Corporate Education  
and Training at Stony Brook  
University

The Clean Energy Business Incubator  
Program  
(CEBIP)

The College of Business at Stony  
Brook University

The College of Engineering and  
Applied Sciences at Stony Brook  
University

Empire State Development: NYSTAR

IEEE Long Island Section

Long Island High Technology  
Incubator

The Manufacturing and Technology  
Research Consortium (MTRC)

The New York Academy of Sciences

Small Business Development Center  
at Stony Brook University

## UPCOMING EVENTS

March 9, 2018 · New York  
Academy of Sciences 12th Annual  
Machine Learning Symposium

February 9, 2018 · Computer  
Science DLS: Syncretizing Lin-  
guistic and Learned Representa-  
tions in Natural Language Pro-  
cessing

February 16-18, 2018 · Hack@CE-  
WIT 2018, IoT & Security

March 26-28, 2018 · Advanced  
Energy Conference 2018

October 16 & 17, 2018 · CEWIT2018  
Conference & Expo on Emerging  
Technologies for a Smarter World



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Stony Brook University