Future Technology Applications in Healthcare, Energy, Supply Chain, Defense and Finance: How AI, AR/VR, Web3, and Other Technologies Will Shape the New Economy

CEWIT2022 CONFERENCE

OCTOBER 3, 2022

CONFERENCE GUIDE

Center of Excellence
WIRELESS AND INFORMATION TECHNOLOGY
AT STONY BROOK UNIVERSITY

WELCOME

Welcome to the 18th annual 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 innovations at a single forum.

This year's conference showcases the exciting new direction technology is heading toward. Recognizing how the world has pivoted and adapted to new changes due to the pandemic, so has technology pivoted and adapted. One of the biggest changes is how medicine is administered and patients are treated. There is a movement to reform how drug development is conducted as we have seen in the acceleration of COVID vaccine and treatment. AI has become a constellation of technologies that permits machines to sense, comprehend, act and learn and is transforming the relationship between people and technology. Venture Capitalists are looking closely at what is now influencing the flow of capital, and Smart Infrastructure technologies aim to enhance the way people live and work. International panels in the pharma field and on seeking capital directions and relative quantities are highly significant at this time. These, with other technological breakthroughs and explorations, will be discussed over the next two days, along with a particularly relevant presentation regarding Information Overload – it's impact and long-term implications.

The world has joined together to share research, to solve greater problems, and to move into a new era of technology. The scientific discoveries in these fields not only will enhance the economy but will harbinger a totally new era in the way things will work in the new world. It is critical that we drive technology commercialization by quickly moving technologies from research labs to the marketplace which will help enhance economic growth as we emerge out of our COVID cocoon. My heartiest congratulations to all of our Keynotes, Authors, and Panelists; and welcome to all of our participants.

Rong Zhao, PhD, MBA
Center Director
The Center of Excellence in Wireless and Information Technology (CEWIT)

Stony Brook University

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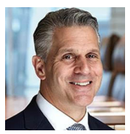

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CONFERENCE AGENDA

Time	Track One	Talk Title
7:30am	Registration and Exhibit Floor Open & Continental Breakfast	
8:15am	**CEWIT2022 Conference Welcoming Remarks**	
8:30am	Nathaniel Rowe Air Force Research Laboratory, Information Directorate	Eliminating the Single Point of Failure in Airborne Wireless Communications
8:55am	Jeehye Yun RedShred	Complex Information Extraction From Technical Manuals
9:20am	Jacob Hyde, PhD Warfighter Consulting	Enhancing Warfighter Trust in Psychological Performance Assessment by Sensors
9:45am	Alvaro Velasquez, PhD Defense Advanced Research Projects Agency (DARPA)	Challenges and Opportunities in Neuro-Symbolic Artificial Intelligence
10:10am	**BREAK - Visit Exhibitor Booths**	
10:30am	Barry Issbener Almasons	Advancement and Impact in the Man-Machine Interface in Supply Chain Operations
10:55am	Scott Crowder, PhD IBM	Roadmap to Practical Quantum Computing
11:20am	Marty Sprinzen Vantiq	How Edge Computing and IoT Will Save the World
11:45am	Henry Chu, PhD University of Louisiana at Lafayette	Adversarial Defense by Restricting In-variance and Co-variance of Image Representations
12:10pm	**LUNCH**	
1:10pm	Anne Gibbon Matri, Inc.	When Curiosity is Queen, the Challenging Future of Expert Driven Sensemaking
1:35pm	Julian Jacobson ZK Ladder	Web3 - Bringing Utility and Sustainability to Web3 for Impact in Art and Philanthropy
2:00pm	Christopher Astefanous GE Aviation	Urban Air Mobility: The Technology and Challenges
2:25om	Fang Wu NTT Research	Smart World, Data Privacy, Privacy Enhancing Technologies (PET), and Attribute Based Encryption (ABE)
2:50pm	**BREAK - Visit Exhibitor Booths**	
3:10pm	Nevenka Dimitrova, PhD Memorial Sloan Kettering Cancer Center	Data Science Approaches Applied in Novel Systems Biology Frameworks for Biomarker Discovery
3:35pm	Christopher Balaban, DMD MSC FACD Overjet	Artificial Intelligence and its Impact to the Dental Healthcare Ecosystem
4:00pm	**Healthcare Technology Panel**	
5:00pm	Networking Reception	Join us in the CEWIT Lobby for a Networking Reception with Beer, Long Island Wine, soda and great food!

SPEAKERS

Christopher Astefanous
Technology Director
GE Aviation

Urban Air Mobility: The Technology and Challenges

Abstract
GE Aviation is a world-leading provider of jet engines, electrical power and avionics systems for commercial and military aircraft. The GE Aviation Systems team supplies generation, conversion, and distribution products that are electrifying the future of flight. As the world demands sustainable transportation methods for people and cargo, Urban Air Mobility has taken center stage for numerous venture startups as well as established aviation organizations looking to capitalize on this disruptive industry trend. In this talk we will be reviewing a typical electrical propulsion system, the technologies that enable electric flight, and discuss the challenges of flight safety certification with respect to hardware and software.

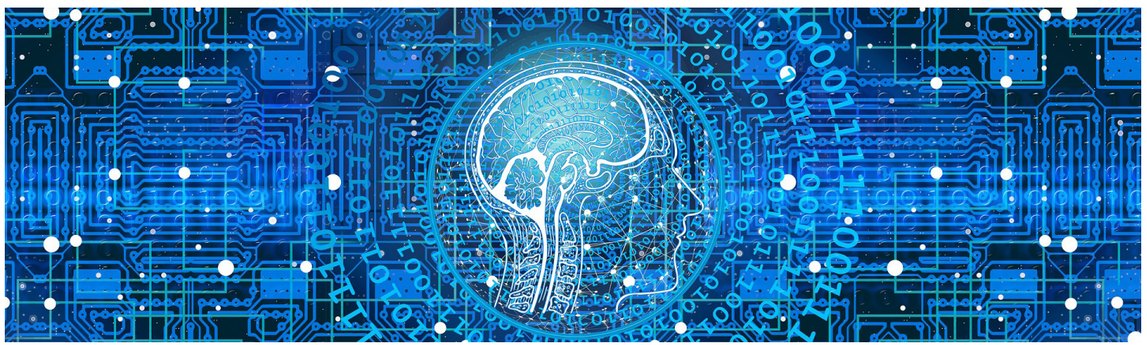
Bio
Chris Astefanous is currently the technology director for the Power Conversion and Control business of GE Aviation Systems. The organization is located at two sites: Ronkonkoma, NY and Pompano Beach, FL. In this role he is responsible for conducting technology and manufacturing maturation for new products. He received his Masters of Science and Bachelors degree, in Mechanical Engineering, from Stony Brook University. Since graduation he has been involved in all phases of complex systems development in industries ranging across satellite communications, particle accelerators, and electrical power systems.

Christopher Balaban, DMD MSC FACD
VP of Clinical Affairs
Overjet

Artificial Intelligence and its Impact to the Dental Healthcare Ecosystem

Abstract
Artificial intelligence is sending shockwaves through the dental industry. Dental AI can identify anatomy and disease with incredible levels of precision and present findings with compelling visuals for patient communication. The technology is poised to redefine how dentists are trained, practices operate, and insurers reimburse. In this course, clinicians working at the forefront of this technology will share the current capabilities of the technology.

Bio
Dr. Christopher Balaban is a practicing dentist in Boston, MA and serves as Vice President of Clinical Affairs for Overjet - the industry leader in dental artificial intelligence. Dr. Balaban holds a master's degree in Biomedical Science, and graduated Summa Cum Laude from Boston University's Goldman School of Dental Medicine, where he held a faculty position in the department of general dentistry at the rank of Clinical Instructor. He is a member of the national dental honors society, Omicron Kappa Upsilon, and was recently appointed to fellowship by the American College of Dentists. Dr. Balaban has written numerous articles on artificial intelligence and its application to dentistry which have been published in Compendium, IDH, IDT and JADA. Dr. Balaban is a leading contributor to the ADA's seminal whitepaper on Augmented Intelligence where he leads the authorship of the 'Clinical Use of Dental AI' section. Dr. Balaban and his clinical team are working with some of the largest DSOs and payers to adopt dental AI into their operations and document its benefits.



Henry Chu, PhD
Professor
University of Louisiana at Lafayette

Adversarial Defense by Restricting In-variance and Co-variance of Image Representations

Abstract
Despite high accuracies achieved by deep neural networks (DNNs) in image classification, DNNs have been shown to be highly vulnerable to structured and unstructured perturbations to the input images. Robustness of many existing defense methods for these models suffers greatly when an attacker has full knowledge of the model and can iterate over the model to craft stronger attacks, which is known as white box attacks. We propose class-wise disentanglement on intermediate representations of DNN so that a DNN is forced to learn decision boundaries that are distinct for each class with clear separation. We observe that this constraint on representations enhance the robustness of learned models even against the strongest white-box attacks. Further we evaluate extensively on both white-box and black-box settings and show significant gains in comparison to state-of-the-art defenses.

Bio
Dr. Henry Chu is the Lockheed Martin Professor of Computer Science/Computer Engineering as well as the Executive Director of the Informatics Research Institute at the University of Louisiana at Lafayette. His research interests are in machine vision and machine learning. His recent research is in learning from noisy data, time series prediction, and information representation in deep learning networks. At the Informatics Research Institute, he oversees use-inspired artificial intelligence research in health informatics, disaster recovery and emergency management, and critical infrastructure cybersecurity. He received his B.S.E. and M.S.E. degrees from the University of Michigan, Ann Arbor, and his PhD from Purdue University, all in electrical and computer engineering.

Scott Crowder, PhD
Vice President
IBM

Roadmap to Practical Quantum Computing

Abstract
This presentation will cover where quantum computing is today and a brief overview of what it will take to achieve practical quantum computing.

Bio
Scott Crowder is currently Vice President, IBM Quantum Adoption. He leads the commercialization effort for quantum computing and IBM Quantum's efforts to create the global diverse and skilled workforce required to unlock the potential of quantum computing. Prior to his current role, Scott served as the Chief Technical Officer for IBM Systems and as the Vice President of Technical Strategy in IBM Corporate Strategy. Scott helped define the cross-IBM technical strategy for cloud infrastructure, Big Data and Analytics, composable services, and software-defined infrastructure. Earlier in his career, Scott was the lead engineer on the industry's first logic-based embedded DRAM technology before serving in a variety of executive management roles within global cross-cultural alliances for semiconductor process development. Scott received A.B./Sc.B. degrees in Electrical Engineering and International Relations from Brown University and a M.A. in Economics and MSc./PhD in Electrical Engineering from Stanford University.

SPEAKERS

Nevenka Dimitrova, PhD
Visiting Computational Oncology Scientist
Memorial Sloan Kettering Cancer Center

Data Science Approaches Applied in Novel Systems Biology Frameworks for Biomarker Discovery

Abstract
Characterizing the complex interplay of cellular processes in cancer would enable the discovery of key mechanisms underlying its development and progression. In this presentation I will talk about several data science approaches applied in novel systems biology frameworks. In the first example, I will talk about characterizing complex biological processes using a unique multidimensional framework integrating transcriptomic, genomic and/or epigenomic profiles for any given cancer sample. I will show that InFlo robustly characterizes tissue-specific differences in activities of signaling networks on a genome scale using unique probabilistic models of molecular interactions on a per-sample basis. We evaluated multi-omics profiles of primary high-grade serous ovarian cancer tumors to delineate mechanisms underlying resistance to frontline platinum-based chemotherapy. InFlo was the only algorithm to identify hyperactivation of the cAMP-CREB1. Next, I will talk about single cell sequencing and using advanced algorithms to show that loss of p53—the 'guardian of the genome'—is not merely a gateway to genetic chaos but, rather, can enable deterministic patterns of genome evolution that may point to new strategies for the treatment of TP53-mutant tumors.

Bio
Nevenka Dimitrova, PhD is a biomedical data science leader, currently on sabbatical at Memorial Sloan Kettering Cancer Center. Her recent position was a Vice President of Data Science and Data Engineering at GlaxoSmithKline, where she combined her technology innovation in AI/ML, with advanced cloud data architectures and healthcare informatics to serve the whole biopharma R&D (10,000people) including target discovery, biomarker, clinical and manufacturing. She led a data science and applied AI and Machine Learning team that utilizes deep learning technologies for image and multi-omics based cell line selection for biopharma discovery, cutting edge algorithms for drug target engines and biomarkers, perturbation sequencing analysis and differential gene expression at scale. Previously, as CTO of Oncology Informatics and Genomics in Philips, she took products from research to market success and helped open new business opportunities in clinical informatics. With a PhD in Computer Science, 140 scientific articles and over 70 granted patents in machine learning, information retrieval, and decision support, Nevenka was recognized for her technical leadership and external collaborations with the Gilles Holst award, the highest peer recognition at Philips. Her expertise and interests are in improving clinical outcomes in oncology, epidemiology, and immunology, and she is excited about impact in clinical settings. In her time away from work she enjoys creating health food recipes, active meditation, music, and travel with family.

Anne Gibbons
CEO
Matri, Inc.

When Curiosity is Queen, the Challenging Future of Expert Driven Sensemaking

Abstract
What if there's a reframe to the paradigm of 'data driven decision making'? If we shifted paradigms could we empower more people to make use of data? Today, only 95-98% of an organization's personnel are data scientists. Executives feel the squeeze of competition and see their data stores as a strategic asset to fuel decision making; they've invested heavily in digital modernization and more data analyst centric tools. But they're still struggling to 'put it in the minds' of their front line experts and staff. How might we re-design human machine interfaces to connect expert minds with their data and fuel a revolution in how we use information to drive competitive sense making?

Bio
Anne Gibbon graduated from the Naval Academy in 2003, where she was the first woman at the school to box competitively, going on to win the 2007 National Amateur Boxing Championship. Through 10 years of military service Anne moved between roles including navigator of a warship, admiral's aide, and leadership instructor. Her last tour was at Naval Special Warfare Development Group, where she co-founded their internal think tank. Since leaving the Navy she completed a fellowship at Stanford's Design School and lived in New Zealand working with Maori tribes, co-designing innovation strategies.

Jacob Hyde, PhD
Psychologist
Warfighter Consulting

Enhancing Warfighter Trust in Psychological Performance Assessment by Sensors

Abstract
The nature of warfare is evolving from the utilization of large quantities of humans as warfighting assets to the selection of high performing humans augmented by machines. In selected cases, high performing warfighters have incentives to conceal their psychological state and physiological deficiencies from themselves and others. Self-evaluation and self-deception related to affect, mood, capability, and behavior can generate situations that can compromise the warfighter or the Nation. With advancements in human-machine teaming, various types of sensors now provide objective characterization of human psychological state and behavior prediction. Various novel technological methods that illuminate human performance and the usefulness of these methods on the warfighter are discussed along with recommendations for enhancing psychological trust in sensor capability.

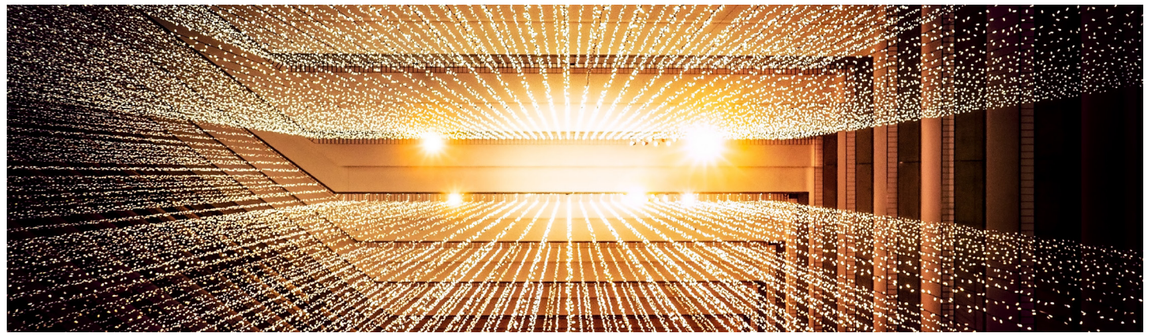
Bio
Dr. Jacob Hyde is a consultant psychologist and licensed clinical health psychologist providing subject matter expertise on behavior and cognitive performance in extreme environments, physiological impacts of built and natural environments on personnel, and psychiatric considerations for individuals and teams living/working in austere, hostile, and extreme environments. He is a combat veteran of the wars in Iraq & Afghanistan, founder of the first doctoral program in military psychology in the U.S., and holds two patents for non-invasive and covert stress monitoring methods. He works primarily with stakeholders in defense, intelligence, and academic medicine through direct support of assets, research project consultation and coordination, and scientific/technical writing and photography.

Barry Issberner
Vice President, Business Development & Marketing
Alamasons

Advancement and Impact in the Man-Machine Interface in Supply Chain Operations.

Abstract
How workers across the supply chain are being outfitted and enabled by technology - voice-directed systems, wearable computers, augmented reality headsets, robotics, etc. to manufacture, distribute, and merchandise products. How those technologies are now, and will soon be, integrated together to overcome a wide set of operational challenges. How those technologies will first enable human workers, and then ultimately replace such workers - and some sobering thoughts on the societal impact of that transition.

Bio
Mr. Issberner has spent decades driving new product realization and launches of high-technology solutions targeting Manufacturing, Transportation, Distribution, Retail, Healthcare, and Hospitality. His experience at Motorola, Nokia, Symbol Technologies, Zebra, and Avaya are notable for introducing a blizzard of solutions incorporating mobile voice and data devices, wearable technology, barcode scanning, RFID, VoIP telephony, video conferencing, mobile payments, device & network security, and analytics technologies. Mr. Issberner brings first-hand experience working with countless operations and IT executives at Fortune 500 firms to determine their needs, and then to craft solutions to solve their operational challenges.



SPEAKERS

Julian Jacobson
President & Co-Founder
ZK Ladder

Web3 - Bringing Utility and Sustainability to Web3 for Impact in Art and Philanthropy.

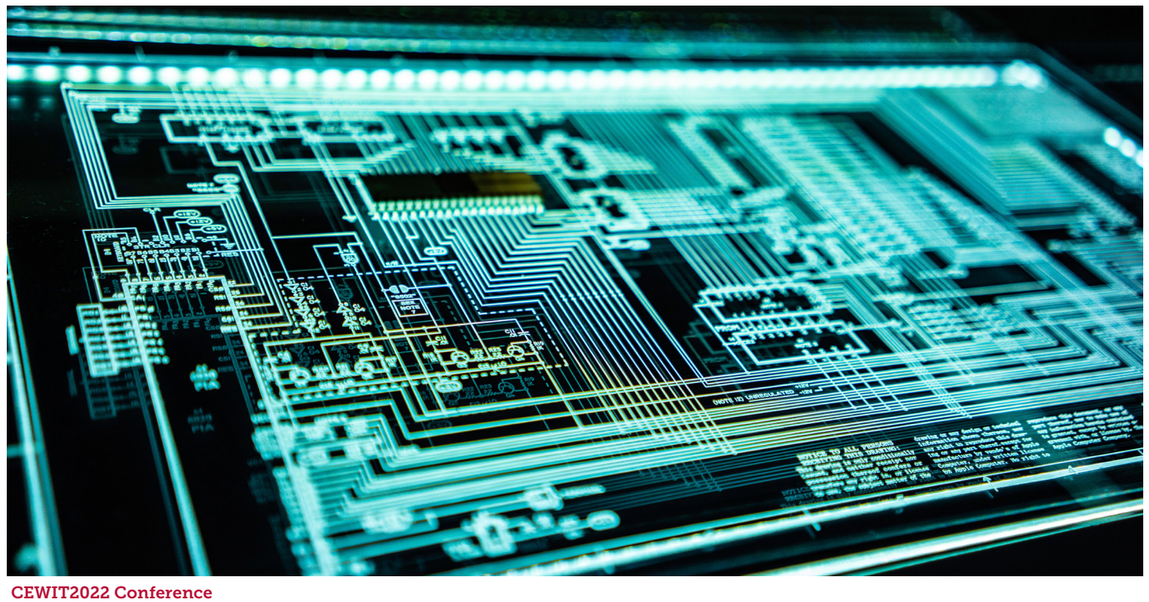
Abstract
Having built regulated crypto currency exchanges and custody platforms, and having built open decentralized systems for years, Julian articulates a studied view of Web3, its merits obstacles and critical path to utility impact and legitimacy.

Bio
Julian Jacobson Co-founded ZK Ladder in 2021, a Web3 Venture Studio and DAO Incubator focused on building web3 utility and sustainability. Julian also co-founded Fundamental Interactions in 2011 where he has served as President for 11 years. Fundamental Interactions is a leading provider of trading infrastructure systems widely deployed worldwide by leading cryptocurrency exchanges, securities exchanges, ATS systems. Julian was an early pioneer of digital assets integration into regulated trading infrastructure for both retail and institutional uses. He has integrated his expertise with regulated centralized operators with innovation in a purely decentralized web3 context.

Nathaniel Rowe
Core Technical Competency Lead, Connectivity and Dissemination
Air Force Research Laboratory, Information Directorate

Eliminating the Single Point of Failure in Airborne Wireless Communications

Bio
Mr. Rowe received his Bachelor of Science and Master of Science in Electrical Engineering from Binghamton University. In 2009 he joined the Air Force Research Laboratory, leading science and technology research and development in the areas of wide-bandwidth wireless communications, directional networking, and quality of service across encrypted networks. Currently, Mr. Rowe serves as Core Technical Competency Lead, Air Force Research Laboratory, Information Directorate, Rome, NY, where he leads the strategic alignment of research and development in the areas of wireless communications, information management, and cross-domain solutions for the Department of the Air Force.



Marty Sprinzen
Founder and CEO
Vantiq

How Edge Computing and IoT Will Save the World

Abstract
Climate change and sustainability are so urgent, and so complex, that they are impossible to solve with traditional methods and systems. Instead, Edge Computing and IoT are the new frontiers for literally saving the world – please join us to learn how.

Bio
Marty Sprinzen is a visionary leader and successful software entrepreneur. The organizations he created and led have introduced some of the most innovative software solutions in the areas of systems management, relational databases, internet application development and, currently, real-time, event-driven applications. Sprinzen founded and became CEO of Vantiq Corporation. Prior to Vantiq, he was CEO and co-founder of Forte Software, which was acquired for over $1B. He also served as VP of International Operations and VP of Engineering at Ingres and VP of Development at Candle Corporation. He holds a BSEE from The Cooper Union for the Advancement of Science and Art.

SPEAKERS

Alvaro Velasquez, PhD
Program Manager
Defense Advanced Research Projects Agency (DARPA)

Challenges and Opportunities in Neuro-Symbolic Artificial Intelligence

Abstract
Neuro-Symbolic Artificial Intelligence has experienced a renaissance and gained much traction in recent years as a potential "third wave" of AI to follow the tremendously successful second wave underpinned by statistical deep learning. This seeks the integration of neural learning systems and formal symbolic reasoning for more efficient, robust, and explainable AI. Such an integration holds much promise in areas like reinforcement learning and planning, where tremendous progress has been made in recent years, including great feats like the defeat of the world Go champion and powerful agents for real-time strategy games. However, the tremendous success of autonomous decision-making has highlighted its own shortcomings when it comes to data limitations, robustness, and trust, among other things. This talk presents some of these challenges and opportunities facing the development of neurosymbolic autonomy, how this differs from conventional neurosymbolic AI problems like classification and natural language processing, and potential implications to facilitating the broader adoption of autonomous solutions.

Bio
Alvaro Velasquez is a program manager in the Innovation Information Office (I2O) of the Defense Advanced Research Projects Agency (DARPA), where he currently leads the Assured Neuro-Symbolic Learning and Reasoning (ANSR) program. Before that, Alvaro oversaw the machine intelligence portfolio of investments for the Information Directorate of the Air Force Research Laboratory (AFRL). Alvaro received his PhD in Computer Science from the University of Central Florida and holds an interdisciplinary research record, including publications in artificial intelligence, combinatorial optimization, networking, cloud computing, and logic and circuit design. Alvaro is a recipient of numerous awards, including the National Science Foundation Graduate Research Fellowship Program (NSF GRFP) award, the University of Central Florida 30 Under 30 award, and best paper and patent awards from AFRL. He serves as Associate Editor of IEEE Transactions on Artificial Intelligence and his research has been funded by the Air Force Office of Scientific Research.

Fang Wu
VP, Business Development of New Technolgies
NTT Research

Smart World, Data Privacy, Privacy Enhancing Technologies (PET), and Attribute Based Encryption (ABE)

Abstract
Smart World asks for large number of IoT devices/Sensors to be deployed to generate sufficient data so that things around us can act smartly. While this concept provides huge value and benefits to wide spectrum of applications from building management, Industry, healthcare and such, the data generated touches personal privacy and security in many ways. There are several emerging technologies that are considered as PETs (Privacy Enhancing Technologies). These technologies can be utilized to protect privacy, but they are not created equal. Attribute Based Encryption (ABE), as part of the PETs family, brings two key elements together - access control and data protection. This presentation will discuss some use cases and benefits without getting into the details of cryptographic technologies.

Bio
Fang Wu has been with NTT family of organizations since 2001. Currently, he is VP responsible for bringing research to business at NTT Research Inc. NTT Research is NTT R&D's global presence outside of Japan with headquarter based in Bay Area of US. It expands a rich lineage of ground-breaking basic research heritage from Japan to the rest of the world. Prior to NTT Research, he held different positions at NTT Communications including VP of Product Management for NTT Global Network, Head of Technology, Systems, and IT at NTT America, and VP of Solution Strategy, Development, and Operations at NTT America. His roles in these positions involved wide spectrum of disciplines including business planning, technology management, technology assessment, system/software development, solution formulation/ implementations as well as operations. Fang holds a bachelor's degree in electrical engineering from CCNY and a master's degree in electrical engineering from NYU Poly.

Jeehye Yun
CEO and Co-founder
RedShred

Complex Information Extraction From Technical Manuals

Abstract
Text Information is only part of document understanding. There is information trapped in non-text areas that provide contextual information that helps a reader to understand the text more clearly, understand information when skimming and helps the reader retain information. RedShred will discuss how it uses NLP and vision to understand tecnical data.

Bio
Jeehye Yun is CEO and Founder of RedShred, a text analytics company focused on document understanding and making information accessible as documents as a database. RedShred uses machine learning and natural language processing to find, read and extract relevant information from complex document sources so developers and data scientists can develop downstream applications. She has raised over $7MM in early stage investments through a combination of SBIRs and private investment. Prior to RedShred, she was founder of SSG, which performed Independent Verification and Validation of legacy and complex web-enabled systems, Information Systems Security Analysis and Integration and Enterprise Content Management Integration for customers like National Geographic, NGC/Fox TV and the US Marine Corps. She was previously Director of Computing Facilities at the University of Maryland Institute for Advanced Computer Studies (UMIACS) and was a UMBC CSEE, Lecturer for Advanced Topics in Computer Security. She has been awarded a patent for document information extraction and a UMBC Alumni of the Year Award in Information Technology, 2013.

HEALTHCARE TECHNOLOGY PANEL

Gil Bashe
Chair of Global Health
Finn Partners
Moderator

Bio
Gil Bashe, Chair Global Health at FINN Partners, among the world's largest communication agencies, is an advocate for health innovation to improve the human condition. He serves on the Decentralized Trials and Research Alliance, CNS Summit Leadership Council, Galien Foundation, Let's Win for Pancreatic Cancer, mHealth Israel, and Marfan Foundation advisory boards and is a strategic advisor to Newtopia, VyTrac, Rezilient Health and Digital Salutem. Gil is listed as a "Top Ten Digital Health Influencer" by Symplur; among "The Top Brains in the New World of Work" by Fast Company; a "Top 50 Health Influencer" by Medika Life; recognized by the PRSA Health Academy for "Excellence in Public Relation;" selected for the PR News "Hall of Fame," and is the recipient of the PM360 "Trailblazer Lifetime Achievement Award."

Elliot Goodman, PhD
Head of Quality
Mount Sinai Health System

Bio
Dr. Elliot Goodman was born and bred in London and educated at the University of Cambridge. After one year of postgraduate training in Cambridge and London, he moved to the United States in 1990. He trained as a general surgeon at Maimonides Medical Center in Brooklyn, New York from 1990 to 1996. During this period of training, he spent two years as a research fellow at Columbia University. Dr. Goodman is on the faculty of the Icahn School of Medicine at Mount Sinai. He is a visiting professor at Ben-Gurion University, Bar Ilan University (both in Israel) and EDU (in Malta). He is the North American co-coordinator for the global surgical community TUGS (The Upper Gastro-intestinal Surgeons society). He has just been recruited by the City University of New York School of Medicine to become Director of Surgical Education and Co-director of the Organ Systems Curriculum. He will hold the academic title of Professor of Medical Sciences, effective October, 2022.

Jack Lewin, MD
Chairman
National Coalition on Health Care

Bio
John C. (Jack) Lewin, MD is a principal of American Health NY, an international health services management and consulting company focused on improving health care in the Middle East and globally. He is also Chief Medical Officer and science advisor of New York City-based MDPortals, an innovative provider of unified patient intelligence for improving health outcomes and accurate risk adjustment scoring for medical groups, health systems, and payers. He is Principal and Founder of Lewin and Associates LLC of New York City, and is also Chairman of the National Coalition on Health (NCHC) of Washington DC. Lewin and Associates is a consulting organization focused on launching health start-up companies and also on developing policy and advocacy positions for health sector companies and government. The NCHC is a highly respected national advocacy organization in Washington DC representing 80+ national health sector organizations and 150 million Americans. He serves on various boards and scientific advisory committees. Lewin has also worked as an FDA advisor and with other organizations developing advanced risk-mitigation strategies related to the COVID-!9 pandemic.

Navin Gupta
Vice President of Marketing
Henry Schein

Bio
Navin Gupta is currently Vice President of Marketing at Henry Schein, heading up the eCommerce distribution business. Navin has over 15 years of marketing and general management experience and has held senior positions at Procter & Gamble, Guthy|Renker and Danaher. Additionally, Navin co-founded 3 companies including PeerWell, a digital health company acquired by Bardavon. Navin holds a degree in biology from the University of Southern California and an MBA from the University of Chicago's Booth School of Business.

Elizabeth Popwell, MPA, FACHE, PMP
Chief Strategy and Transformation Officer
Stony Brook Medicine

Bio
Elizabeth (Liz) Popwell, MPA, FACHE, PMP was appointed Chief Strategy and Transformation Officer for Stony Brook Medicine effective July 7, 2022. In this newly created position, Liz will be responsible for driving all aspects of strategy for Stony Brook Medicine and the Health Science Campus and will identify key initiatives to guide growth and transformation. She will develop a new, comprehensive enterprise-wide strategic plan that will include an integrated approach for planning, budgeting and capital deployment. The execution of these strategies will be driven through both internal initiatives and broad-ranging external partnerships. Her key responsibilities include strategic planning and implementation, transformation and business development. Liz is a nationally recognized thought leader and healthcare executive with more than 28 years of experience in the field.

Fred Sganga
Executive Director
LI State Veterans' Home

Bio
Fred S. Sganga is the Executive Director of the Long Island State Veterans Home at Stony Brook University, a 350-bed Skilled Nursing Facility serving honorably discharged veterans and their families. Board certified in Health Care Management and a Licensed Nursing Home Administrator, Mr. Sganga has worked in a variety of senior level healthcare positions in academic medical centers, community hospitals, long-term care facilities and physician practice management. Mr. Sganga earned his Bachelor of Science Degree in Community Health from Hunter College and his Masters of Public Health from Columbia University. Mr. Sganga serves as an adjunct professor in the Graduate Healthcare Administration Programs at Stony Brook University and Hofstra University. He lectures extensively on the topics of Healthcare Leadership and Long-Term Care Management.

EXHIBITORS

8CHILI Today, more than 90 percent of the health journey occurs at home, often meaning clinicians lack the insight into their patients' disease status, and patients lack the knowledge and tools to adhere to their care plans. Fitango is the first and only digital health solution that blends active patient and family engagement technology, a health content management system, and virtual care features to facilitate continuous, personalized healthcare at home. With Fitango, clinicians gain valuable patient data for better clinical decision making, and patients are empowered to take charge of their own care plans.

FITANGO Today, more than 90 percent of the health journey occurs at home, often meaning clinicians lack the insight into their patients' disease status, and patients lack the knowledge and tools to adhere to their care plans. Fitango is the first and only digital health solution that blends active patient and family engagement technology, a health content management system, and virtual care features to facilitate continuous, personalized healthcare at home. With Fitango, clinicians gain valuable patient data for better clinical decision making, and patients are empowered to take charge of their own care plans.

INTELIBS is an intelligent infrastructure company building fiber-based wireless networks that enhance cellular service quality, security and building management for the indoor and outdoor areas of college and hospital campuses. With its technical innovations, its industry partnerships, and its broad experience in cost-effective design, Intelibs collaborates with venue owners to deliver quality solutions that lower the total cost of Infrastructure ownership.

EDGEWORTH BOX is an elastic procurement platform with tools, data, and community for executing the sourcing process. We are to existing procurement technology as cloud computing is to the private data center. Buyers can match their procurement execution capacity to procurement execution demand dynamically, turning it up when they need it and turning it down when they don't. Buyers pay only for what they use. With everything necessary to run a successful competitive RFP or RFQ, EdgeworthBox is well suited for companies that want to optimize procurement in a specific category or for those who suffer from an excessive reliance on email and spreadsheets to manage acquisition.

GREATMIX is a software-based start-up company that offers a SaaS solution to healthcare organizations in the operational environment. Greatmix.AI platform is based on artificial intelligence and network science and allows end-to-end process optimization. With the company's products, it is possible to increase various metrics, including revenue, capacity, and resource utilization, both at the planning and scheduling level and when allocating resources and mitigating risks & unexpected events in real-time.

RHINO HEALTH provides an end-to-end platform for privacy-preserving data collaborations with robust support for MLOps workflow. Rhino Health's distributed compute and federated learning platform makes it easy to use distributed data sources without the need to maintain a proprietary data infrastructure, and without requirements for data transfer outside institutional firewalls.

GYNISUS uses sophisticated and proprietary AI and predictive analytics to help healthcare stakeholders improve health and financial outcomes at a lower total cost, and increase organizational agility and effectiveness.