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See inside for updated agenda, including just announced keynotes, more presentations from industry leaders, attendee roundtables, workshops and more!

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To be competitive in the future, your organization needs an AI strategy.

AI World offers invaluable insights from across the AI ecosystem to help you accelerate innovation efforts, build competitive advantage, drive new business opportunities, and reduce costs. Leverage the expertise of these AI visionaries to understand how to drive business value through AI

Alex Sandy Pentland, PhD
Professor, Engineering, Business, Media Lab, MIT

In 2012 Forbes named Sandy one of the "seven most powerful data scientists in the world". He co-leads the World Economic Forum Big Data and Personal Data initiatives, and is a founding member of the Advisory Boards for Nissan, Motorola Mobility, Telefonica, and a variety of start-up firms.

Franziska Bell
Director of Data Science Platforms, Uber

Franziska founded Uber's Anomaly Detection, Forecasting Platform and Natural Language Platform teams. She leads the Applied Machine Learning, Behavioral Science, and Customer Support Data Science teams at Uber, which has one of the world's most sophisticated AI environments.

Paul F. Nemitz
Principal Advisor, Directorate General for Justice and Consumers, European Commission

Paul led the reform of Data Protection legislation in the EU and the negotiations of the EU – US Privacy Shield. His work focuses on the future of AI and privacy concerns.

Fewer than 10% of global 2000 enterprises have harnessed AI significantly
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David Castillo, PhD
Managing Vice President of Machine Learning, Capital One
Dave is responsible for driving excellence in Applied ML Research, University ML Research, ML technologies (tools and platforms), ML Consulting, and ML awareness within Capital One.

Khalid Al-Kofahi
Vice President, R&D and Head, Center for AI and Cognitive Computing, Thomson Reuters
Khalid is responsible for defining Thomson Reuters R&D strategy and for partnering to identify and realize product opportunities that could be enabled by AI and machine learning.

Sumeet Singh
Vice President of Big Data, AI & Location Platforms, Yahoo (Verizon Media)
Sumeet is an early leader of the big data movement, responsible for launching and scaling most services for Yahoo's Hadoop platform since 2011.

Bahman Bahmani, PhD
VP of Data Science and Engineering, Rakuten
At Rakuten, the world's seventh largest internet company, Bahman manages an AI organization with engineering and data science managers, data scientists, machine learning engineers, and data engineers, distributed across three continents.

Pin-Yu Chen, PhD
Chief Scientist, RPI-IBM AI Research Center, Research Staff Member, Trusted AI Group, IBM Thomas J. Watson Research Center
Pin-Yu's research focus has been on adversarial machine learning and studying the robustness of neural networks,

Vishal Gossain
Vice President, AML/ATF Analytics, Global Risk Management, Scotiabank
Vishal is responsible for all regulatory and non-regulatory retail models, Anti-Money Laundering/Anti-Terrorist Financing models, and application of AI and ML for these.

Sadid Hasan, PhD, MD
Sadid Hasan, PhD, Senior Director of Artificial Intelligence, CVS Health
Sadid is a well-recognized thought leader in AI, NLP, and ML whose recent work includes addressing problems related to clinical information extraction, natural language inference, paraphrase generation, and more using deep learning.

Srinivaas Krovvidy, PhD
Head, Advanced Analytics Enablement, Enterprise Data, Fannie Mae
Srinivaas oversees analytic transformation journeys and development of data science applications at Fannie Mae, including leading enterprise shared services.

Victor S.Y. Lo, PhD
Head of Data Science and AI, Workplace Solution, Fidelity Investments
Victor leads an AI team to apply advanced techniques including causal inference, randomized experiments, NLP, machine learning, deep learning, and uplift modeling, to support a wide variety of business applications.

Visit AIWorld.com to learn more about all the AI business and research leaders speaking at this year's event.

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Join Us on the Forefront of AI Innovation!

Now in our fourth year, **AI World** remains the industry's largest independent business event focused on the state of the practice of AI in the enterprise. Our 3-day program delivers a comprehensive spectrum of content, networking, and business development opportunities, all designed to help you cut through the hype and navigate through the complex landscape of AI business solutions. Attend AI World and learn how leaders are successfully deploying AI and intelligent automation to accelerate innovation efforts, build competitive advantage, drive new business opportunities, and reduce costs.

Eliot Weinman
AI World Founder & Chair

AI World 2019 features a significant expansion of coverage, including the AI World Executive Summit, and a series of half-day seminars on AI in Customer Analytics, AI and Cybersecurity, Personalized Medicine, AI for Business Professionals and Making AI Trustworthy. Our main conference program has been expanded to include 16 tracks covering key industries and technology topics such as AI in Financial Services, AI in Healthcare, AI in Pharma, AI in Retail, AI in Energy, AI in Manufacturing, Emerging AI Research, AI in Mobile and Telecom, AI in Robotics and much more. All attendees will gain access to our state-of-the-art networking app to enable you to schedule meetings with industry leaders and colleagues. In total we've programmed in more than 15 hours of time for you to take advantage of key networking opportunities.

I look forward to seeing you in October!

Conference at-a-Glance

DAY 1 | Wednesday, October 23

AI WORLD EXECUTIVE SUMMIT
(see page 7)

SEMINARS (pages 8-9)

- AI in Customer Analytics
- Personalized Medicine
- AI & Cybersecurity
- AI for Business Leaders
- Making AI Trustworthy

WELCOME RECEPTION

ATTENDEE ROUNDTABLES & MEETUPS

DAY 2 | Thursday, October 24

PLENARY PROGRAM (see pages 4-5)

KEYNOTE & EXECUTIVE ROUNDTABLES

CONCURRENT TRACKS (pages 10-12)

- Big Data to AI
- Emerging AI Technologies
- AI in IoT/Manufacturing
- AI in Healthcare
- AI in Pharma
- AI & Financial Services
- AI in Energy
- AI for Retail & eCommerce
- Building Conversational Applications

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MEETUP GROUPS

DAY 3 | Friday, October 25

PLENARY PROGRAM (see pages 4-5)

KEYNOTE & EXECUTIVE ROUNDTABLES

CONCURRENT TRACKS (pages 13-15)

- Monetizing Big Data
- AI for Strategic Enterprise Functions
- AI in Telecom & Mobile
- AI in Healthcare
- AI in Pharma
- AI & Financial Services
- AI & Robotics
- Cutting Edge AI Research

RPA AND INTELLIGENT AUTOMATION

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DON'T MISS OUR SPECIAL EVENTS PROGRAM *happening in the exhibit hall – see page 16 for details*

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Plenary Program

WEDNESDAY-FRIDAY

WEDNESDAY, OCTOBER 23

9:00 AM SUMMIT KICK OFF: AI Becomes Real
Scott Lundstrom, Group Vice President and General Manager, IDC Government and Health Insights, IDC and AI World, Conference Co-Chair

9:10 AM SUMMIT KEYNOTE: Business Strategy with Artificial Intelligence
Sam Ransbotham, PhD, Professor, Academic Contributing Editor, Information Systems, Boston College; MIT Sloan Management Review

9:35 AM EXECUTIVE ROUNDTABLE:
AI Drives Innovation in Enterprise Applications

Moderator: Mickey North-Rizza, Research Vice President, Enterprise Applications, IDC

Madhumita Bhattacharyya, Managing Director – Enterprise Data & Analytics, Protiviti

David Castillo, PhD, Managing Vice President, Machine Learning, Capital One

Sasha Caskey, CTO & Co-Founder, Kasisto

Mukesh Dalal, PhD, Chief Analytics Officer & Chief Data Scientist, Bose Corporation

10:05 AM KEYNOTE: Evolving Role of CDAOS in the New Era – An Organizational Construct
Anju Gupta, Vice President, Chief Data and Analytics Officer, Enterprise Holdings

10:30 – 10:50 AM NETWORKING BREAK

10:50 AM EXECUTIVE ROUNDTABLE:
The Evolution of Conversational Assistants

*Moderator:
Reenita Malholtra Hora, Director of Marketing & Communications, SRI International*

Panelists: William Mark, PhD, President, SRI

Karen Myers, Lab Director, SRI International's AI Center

11:20 AM Talk Title to be Announced
Genevy Dimitrion VP, Enterprise Data and Analytics, Humana

11:40 AM How AI Maturity Impacts a Winning Corporate Strategy
Ritu Jyoti, Program Vice President, IDC

4:20 PM PLENARY KEYNOTE PANEL:
Learning from XPRIZE Startups to Achieve Successful AI Innovation

*Moderator:
Devin Krotman, Director, IBM Watson AI XPRIZE, XPRIZE Foundation*

*Panelists: Eleni Miltsakaki, Founder and CEO, Choosito
Ellie Gordon, Founder, CEO, & Designer, Behaivior AI
Daniel Fortin, President, AITera Inc.*

THURSDAY, OCTOBER 24

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8:20 AM BREAKFAST KEYNOTE:
The Promise and Pain of Computer Vision in Retail, Healthcare, and Agriculture
Ben Schneider, Vice President, Product, Alegion

9:00 AM CONFERENCE INTRODUCTION
Eliot Weinman, Founder & Conference Chair, AI World; Executive Editor, AI Trends

9:05 AM INTRODUCTORY REMARKS
Scott Lundstrom, Group Vice President and General Manager, IDC Government and Health Insights, IDC and AI World, Conference Co-Chair

9:15 AM KEYNOTE PRESENTATION:
The Human Strategy
Alex Sandy Pentland, PhD, Professor, Engineering, Business, Media Lab, MIT

9:45 AM KEYNOTE:
Uber's Intelligent Insights Assistant
Franziska Bell, PhD, Director, Data Science, Data Science Platforms, Uber

10:15 AM KEYNOTE: AI in Finance: Present and Future, Hype and Reality
Charles Elkan, PhD, Managing Director, Goldman Sachs

10:40 – 11:00 AM COFFEE BREAK

11:00 AM KEYNOTE: AI at Work in Legal, News and Tax & Accounting
Khalid Al-Kofahi, PhD, Vice President, Research and Development, Head - Center for AI and Cognitive Computing, Thomson Reuters

11:25AM EXECUTIVE ROUNDTABLE:
Disinformation, Infosec, Cognitive Security and Influence Manipulation

Moderator: Michael Krigsman, Industry Analyst, CXOTalk

Pablo Breuer, Director of US Special Operations Command Donovan Group and Senior Military Advisor and Innovation Officer, SOFWERX

Panelist: Sara-Jayne Terp, Data Scientist, Bodacea Light Industries LLC

Anthony Scriffignano, PhD, SVP, Chief Data Scientist, Dun & Bradstreet

Bob Gourley, Co-Founder and CTO, OODA LLC

12:00 PM LUNCHEON KEYNOTE:
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Case Studies of Conversational AI - Real Deployments at Scale

Jim Freeze, Chief Marketing Officer, Interactions

Ben Bauks, Senior Business Systems Analyst, Constant Contact

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FRIDAY, OCTOBER 25

8:15 AM KEYNOTE:
AI World Society Roundtable on AI-Healthcare

*Moderator:
Ed Burns, Site Editor, TechTarget*

Panelist: Professor David Silbersweig, Board Member of BGF, Harvard Medical School

Professor Mai Trong Khoa, PhD, Chairman of the Nuclear Medicine and Oncology Council, Director of the Gene-Stem cell

Center, Bach Mai hospital, Senior lecturer, Hanoi Medical University, Secrectary of the National Council of Professorship in Medicine in Vietnam

Truong Van Phuoc, PhD, Former Acting Chairman, State Inspectory Committee of Finance of Vietnam, Senior Advisor to Chairman, Vietbank

Truong Vinh Long, MD, CEO, Gia An 115 Hospital

8:45 AM CONFERENCE INTRODUCTION
Scott Lundstrom, Group Vice President and General Manager, IDC Government and Health Insights, IDC and AI World, Conference Co-Chair

8:50 AM KEYNOTE: Artificial Intelligence in Sustainable Development: An Educational Perspective
Enver Yucel, Chairman, Bahçeşehir University

9:00 AM KEYNOTE: Enhancing Human Capability with Intelligent Machine Teammates
Julie Shah, Associate Professor, Dept of Aeronautics and Astronautics, Computer Science and AI Lab, MIT

9:30 AM KEYNOTE:
Democracy, Ethics and the Rule of Law in the Age of Artificial Intelligence
Paul F. Nemitz, Principal Advisor in the Directorate-General for Justice and Consumers of the European Commission

10:00 AM KEYNOTE:
AI in Pharma: Where we are Today and How we Will Succeed in the Future
Natalija Jovanovic, PhD, Chief Digital Officer, Sanofi Pasteur

10:30 AM Startup Awards Announcement
John Desmond, Principal at JD Content Services, Editor AI Trends

10:35 – 10:50 AM COFFEE BREAK IN THE EXPO

10:50 AM EXECUTIVE ROUNDTABLE:
Enterprise AI Innovations

*Moderator:
Nick Patience, Founder & Research Vice President, Software, 451 Research*

Norbert Monfort, Vice President, IT Transformation and Innovation, Assurant Global Technology

Rudina Seseri, Founder and Managing Partner, Glasswing Venture

Dawn Fitzgerald, Director of Digital Transformation Data Center Operations, Schneider Electric

11:30 AM KEYNOTE: How AI is Helping to Improve Canadian Lives Through AML
Vishal Gossain, Vice President, Global Risk Management, ScotiaBank

12:00 PM LUNCHEON KEYNOTE:
How AI/ML is Changing the Face of Enterprise IT
Robert Ames, Senior Director, National Technology Strategy, VMware Research, VMware

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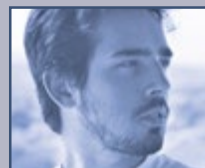for AI and Cognitive Computing,
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Rudina Seseri
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Glasswing Ventures

Heath Terry
Global Investment Research,
Goldman Sachs

Virginie Vast
Head of Cognitive Procurement
and Digital Sourcing, VodaFone
Procurement

Eliot Weinman
Founder & Conference Chair, AI
World; Executive Editor, AI Trends

Les Yeamans
Founder and Executive Editor,
RTInsignts

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AI World Executive Summit

Is your business ready to harness AI and intelligent technologies? A study of 3,000 business executives from large enterprises globally indicated that 85% of these organizations view the deployment of AI as strategically imperative, however less than 5% have seen any success to date. How will AI impact your customers, partners, and employees? These big questions and many more are on the minds of business leaders, CEOs, CMOs, CDOs, and CIOs. The AI World Executive Summit provides business executives with a strategic look at the state of the practice in enterprise AI across multiple vertical industries, including Healthcare and Financial Services.

7:30 am Registration Open

8:00 Continental Breakfast

9:00 Summit Kick Off – AI Becomes Real
Scott Lundstrom, Group Vice President and General Manager, IDC Government and Health Insights, IDC and AI World, Conference Co-Chair
IDC will provide an overview of growth in the global market for AI. Special attention will be focused on emerging, high growth opportunities by geography and industry. Regulatory hurdles and emerging standards will also be covered as we take the pulse of the global AI market.

9:10 Summit Keynote: Business Strategy with Artificial Intelligence
Sam Ransbotham, PhD, Professor, Academic Contributing Editor, Information Systems, Boston College; MIT Sloan Management Review

9:35 Executive Roundtable: AI Drives Innovation in Enterprise Applications
Moderator: Mickey North-Rizza, Research Vice President, Enterprise Applications, IDC

Panelists: David Castillo, PhD, Managing Vice President, Machine Learning, Capital One
Madhumita Bhattacharyya, Managing Director, Enterprise Data and Analytics, Protiviti
Mukesh Dalal, Chief Analytics Officer & Chief Data Scientist, Bose Corporation
AI is the single greatest disruptive force facing industry today. All aspects of business are changing as organizations move forward with AI-fueled digital transformation. Increasingly, customers expect that AI infused enterprise applications will drive continued improvements in value, quality, and engagement. Hear from business and technology leaders who are managing their enterprise's AI innovation efforts in an in-depth discussion about strategic directions and lessons learned.

10:05 Keynote: Evolving Role of CDAOS in the New Era – An Organizational Construct
Anju Gupta, Vice President, Chief Data and Analytics Officer, Enterprise Holdings

10:30 Networking Break

10:50 Executive Roundtable: The Evolution of Conversational Assistants
Moderator: Reenita Malholtra Hora, Director of Marketing & Communications, SRI International
Panelist: William Mark, PhD, President, SRI
Karen Myers, Lab Director, SRI International's AI Center
Sasha Caskey, CTO & Co-Founder, Kasisto

11:20 Talk Title to be Announced
Humana Executive

11:40 How AI Maturity Impacts a Winning Corporate Strategy
Ritu Jyoti, Program Vice President, IDC
A clear, well-defined corporate AI strategy is the differentiator between enterprises that will succeed and those that will struggle. In this session, learn some of the ways early adopters are addressing their AI maturity to take advantage of this disruptive technology.

12:00 pm Enjoy Lunch on Your Own

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7:30 am Registration Opens

8:00 Continental Breakfast

9:00 am-12:00 pm AI World Executive Summit (see page 7 for details)

12:00 Enjoy Lunch on Your Own

SEMINAR 1

AI in Customer Analytics

Industry analyst firm Gartner says, "By 2020, 85% of customer interactions will be managed without a human." Delivering a cohesive customer experience (CX) across all enterprise touchpoints requires finding patterns across a myriad of data points. AI and machine learning present an opportunity to evolve many siloed, multi-channel organizations into proactive customer champions. An AI-enabled customer journey starts with developing the right processes and expertise for collecting data.

1:15 Opening Remarks: Analyzing the Customer Journey
Pawel Osterreicher, Director of Strategy & Business Development, deepsense.ai

1:20 How a Lot of Small Pieces of Data Arm You with a Big Picture of the Customer
Pawel Osterreicher, Director, Strategy & Business Development, deepsense.ai

2:00 AI Techniques that Work in Customer Analytics
Piotr Tarasiewicz, Data Scientist, deepsense.ai

2:35 Refreshment Break

2:55 Demand Forecasting Powered by Machine Learning
Andy Thurai, Head of US Operations, deepsense.ai

3:35 PANEL: Data Flood – How Not to Drown and Use Data Efficiently
Over the past few years, a lot has been said about the futuristic, perfect world of e-commerce, where sellers know just what consumers need, and offer them a product or service at the right time. This naturally leads to higher conversion rates. How close are we to this world? What else do we need to achieve it? What will never happen in your opinion?
Moderator: Moderator: Michal Iwanowski, VP of Engineering, deepsense.ai
Panelist: Yu-Feng Wei, PhD, CEO, Vizuro LLC
Prithvi Bhutani, Senior Product Manager, Adobe Analytics
Andy Thurai, Head of US Operations, deepsense.ai

4:10 Close of Seminar

SEMINAR 2

AI in Personalized Medicine

1:15 Opening Remarks
Jonathan Dry, PhD, Director, Bioinformatics and Data Science, Research and Early Development, Oncology R&D, AstraZeneca

1:20 Graphical Models for Precision Therapeutics
Jonathan Dry, PhD, Director, Bioinformatics and Data Science, Research and Early Development, Oncology R&D, AstraZeneca

1:45 AI-Guided Read & Write Brain Tech Platform: Revolutionizing Brain Therapy
Ana Maiques, CEO, Neuroelectrics

2:10 Making Artificial Intelligence Actionable for Patients with Chronic Diseases
Caitlin Monaghan, PhD, Data Scientist II, Applied Advanced Analytics, Fresenius Medical Care North America

2:35 Refreshment Break

2:55 Deep Learning Network to Generate Synthetic Dataset to Protect Personally Identifiable Information in Clinical Trials
Shanrong Zhao, PhD, Director, Computational Biology, Pfizer Inc.

3:15 Personalized Healthcare: Leveraging IoT & Quantum Computing
Uzair Rashid, Consultant, Healthcare Strategy & Innovation Leader

3:35 PANEL: AI in Personalized Medicine and Digital Health
Moderator: Len Usvyat, PhD, Vice President, Applied Advanced Analytics, Fresenius Medical Care North America
Panelists: Ana Maiques, CEO, Neuroelectrics
Uzair Rashid, Consultant, Healthcare Strategy & Innovation Leader
Albine Martin, Executive in Residence, Johns Hopkins University

4:10 Close of Seminar

SEMINAR 3

AI & Cybersecurity

AI is being used today to improve the ability of organizations to defend themselves. It is also being used by adversaries seeking advantage. The age-old game of attack vs defense continues. But something is different now. Organizations are finding that their AI solutions need special protections. AI needs to be developed in the most secure manner possible. Adversaries who can access training data can manipulate it to drive outcomes of machine learning. Algorithms themselves must also be protected. Many AI solutions have been shown to be biased and/ or bigoted. And in some cases, the solutions will generate results that are unexplainable, making security and compliance even more complicated.
Speaker:
Bob Gourley, Co-Founder and CTO, OODA LLC

1:15 Opening Remarks: When AI Goes Wrong

1:25 Fireside Chat: The Future AI Threats (and what to do about them)
Moderator: Bob Gourley, OODA LLC
Panelist: Bobbie Stempfley, CERT Division, Software Engineering Institute, Carnegie Mellon University

2:00 Scoping the AI Threat to National Security
Pablo Breuer, Director of US Special Operations Command Donovan Group and Senior Military Advisor and Innovation Officer, SOFWERX

2:15 AI Based Solutions for Finance/ FinTech/Counter-Fraud
Amyn Dhala, Vice President - Global Head of Product, AI Express, Mastercard

2:35 Refreshment Break

2:55 PANEL: Due Diligence on AI Companies
Moderator: Bob Gourley, OODA LLC
Panelists: Maria Lewis Kussmaul, Founding Partner, Investment Banking, AGC Partners
Kapil Raina, Chair and Founder, AI Security Alliance

3:35 Technologies of AI Security
Bob Gourley, Co-Founder and CTO, OODA LLC

4:10 Close of Seminar

4:20 Plenary Keynote Presentation (see page 4 for details)

5:00 Grand Opening Reception in the Expo

6:30 Attendee Roundtable Discussions & Meetups (see website for details)

7:30 Close of Day 1

AI World program subject to change. Please view website for current details.

7:30 am Registration Opens

8:00 Continental Breakfast

9:00 am-12:00 pm AI World Executive Summit (see page 7 for details)

12:00 Enjoy Lunch on Your Own

SEMINAR 4

AI for Business Leaders: Realizing the Promise of AI

Staying competitive in the rapidly accelerating business world requires executives and companies to move towards digital transformation. Simply automating manual processes or using machines to shuffle documents around hasn't really changed anything. AI and Machine learning, powered by big data, advancements in computing, and the development of deep learning algorithms promise to change all of that and break the digital transformation logjam. This enables companies to gain intelligence from their information, augment operations with intelligent systems, and provide deep prediction, pattern, anomaly, recognition, goal-seeking, and personalization capabilities that have previously been unattainable.

Speakers:

Ronald Schmelzer, Managing Partner, Principal Analyst, Cognilytica
Kathleen Walch, Managing Partner, Principal Analyst, Cognilytica

1:15 Applying the Seven Patterns of AI to Break the Digital Transformation Logjam

2:35 Refreshment Break

2:55 Doing AI Right: Best Practices in AI Project Management

3:35 Interactive Roundtable on Actionable Next Steps for You and Your Organization

- How to identify which AI pattern(s) to use to solve your particular problem and how each pattern or combo of patterns can be applied to all AI projects
- Review the "right questions" you need to ask and answer before starting an AI project
- Discuss how methodologies fit into implementation of the seven patterns to deliver highly reliable, scalable, performance AI project

4:10 Close of Seminar

SEMINAR 5

Making AI Trustworthy

Decision making in high-stakes applications, is increasingly supported by AI models and there is a need to make them fair, robust and trustworthy. In this seminar we will explore topics like; How fair are these models? Are the model decisions understandable and explainable? Can we build safeguards that prevent abuse and malicious behavior of AI models? And finally, how to build transparent reporting mechanisms on how AI models operate.

1:15 Making AI Trustworthy

Pin-Yu Chen, PhD, Chief Scientist, RPI-IBM AI Research Center, Research Staff Member, Trusted AI Group, IBM Thomas J. Watson Research Center

1:55 Trusted AI for Advancing Science and Innovation

Payel Das, PhD, Research Staff Scientist and Manager, Deep Learning, AI Learning Department, IBM Thomas J. Watson Research Center; Adjunct Associate Professor, APAM Department, Columbia University

2:35 Refreshment Break

2:55 PANEL: Trusted AI

Decision making in high-stakes applications, such as credit, healthcare, and criminal justice, is increasingly supported by AI models. As such systems are having an immense effect on our lives and there is a need to make them fair, robust and trustworthy. We will discuss issues such as: Are our models fair? Are the model decisions understandable and explainable? Can we build safeguards that prevent abuse and malicious behavior of AI models? How to built transparent reporting mechanisms on how AI models operate?

Moderator: Prasanna Sattigeri, PhD, Research, MIT-IBM Watson AI Lab, Thomas J. Watson Research Center
Panelists:

David Sontag, PhD, Associate Professor, Institute for Medical Engineering and Science (IMES) & Principal Investigator, Computer Science and Artificial Intelligence Laboratory (CSAIL)
Himabindu Lakkaraju, PhD, Post-Doctoral Researcher, Harvard University
Aleksander Mądry, PhD, Associate Professor, Computer Science; Principal Investigator, Computer Science and Artificial Intelligence Laboratory (CSAIL)
Aleksander Mądry, PhD, Associate Professor, Computer Science, MIT, Member of CSAIL
Elisa Celis, PhD, Assistant Professor, Statistics & Data Science, Yale University

4:10 Close of Seminar

4:20 Plenary Keynote Presentation (see page 4 for details)

5:00 Grand Opening Reception in the Expo

6:30 Attendee Roundtable Discussions & Meetups (see website for details)

7:30 Close of Day 1

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7:45 am Registration Opens

8:00 Continental Breakfast

8:20 Breakfast Keynote *Sponsored by Alegion*

9:00 – 11:50 Plenary Keynote Session (see page 4 for details)

12:00 pm Luncheon Keynote: Case Studies of Conversational AI: Real Deployments at Scale *Sponsored by Interactions*

12:25 pm Networking Coffee & Dessert in the Expo (Lunch available for purchase)

TRACK 1

Operationalizing Big Data to AI

1:30 Opening Remarks
Dan Vesset, Group Vice President, Analytics and Information Management, IDC

1:35 Talk Title to be Announced
DataRobot Executive

2:05 Operationalizing Decision Making In the Era of Big Data and AI
Dan Vesset, Group Vice President, Analytics and Information Management, IDC

2:25 Using an Intent Graph to Understand Future Customers
Sumeet Singh, Vice President of Big Data, AI & Location Platforms, Verizon Media

2:45 PANEL: Intelligent Automation with RPA
Moderator: Kashyap Kompella, CEO and Chief Analyst, rpa2ai Research
Panelists: Lawrence Lee, Vice President, Incubation and Innovation Strategy, Xerox
Dorothee Baas, Business Process Integration Manager, Stant Corporation
Elif Tutuk, Senior Director, Research, Qlik

3:20 Refreshment Break in the Expo

4:05 Predicting and Prosecuting Crime in Rio de Janeiro: A Machine Learning Story
Daniel Carvalho Belchior, Senior Tech Lead Big Data, Public Prosecutor's Office, City of Rio de Janeiro, Brazil

4:35 Machine Learning in Practice: Anomaly Detection for Army ERP Data
Tanya Cashorali, CEO, TCB Analytics
Donnie Horner, PhD, Vice President, Leader Development & Organizational Performance, Higher Echelon, Inc.

TRACK 2

Emerging AI Technologies

1:30 Opening Remarks
David Schubmehl, Research Director Cognitive/Artificial Intelligent Systems and Content Analytics, IDC

1:35 AI Growing Pains: Platform Considerations for Moving from POC to Large Scale Deployments
Chhandomay Mandal, Director, Solutions and Vertical Marketing, Dell Technologies

2:05 Using AI to Synthesize New Data
Jan Kautz, PhD, Vice President of Learning and Perception Research, Nvidia

2:30 PANEL: The Impact of Quantum Science on Artificial Intelligence
Moderator: Michael Riordan, Vice President, Entanglement Institute, Inc. and former instructor at Ethics & Emerging Military Technology Graduate Program, U.S. Naval War College
Panelist: Celia Merzbacher, PhD, Associate Director, Quantum Economic Development Consortium (QED-C)
Ahmed El Adl, PhD, AI Consulting & Intelligent Solutions Leader, Accenture
Matt Langione, PhD, Project Leader, Boston Consulting Group
Yudong Cao, CTO, ZAPATA Computing, Inc.

3:20 Refreshment Break in the Expo

4:05 Emotional Intelligence and Affective Computing
Catherine Havasi, PhD, Professor at MIT and AI Lead for Agorai

4:35 Increasing the Bandwidth Between Human and AI with Augmented Reality
Speaker to be announced

TRACK 3

AI and Real-Time IoT in Manufacturing

BUSINESS VALUE OUTCOMES

1:30 pm Opening Remarks
Les Yeamans, Founder & Executive Editor, RTInsights

1:35 The Role of AI and IOT in Manufacturing: State of the Industry
Ryan Martin, Principal Analyst, ABI Research

2:05 Can Digital Twins Unleash the Potential of AI?
Ajay Raghavan, PhD, Strategic Execution Director, PARC, a Xerox Company

2:35 BUSINESS PANEL DISCUSSION: Assessing the Business Values of AI and IOT in the Manufacturing Industry
Moderator: Les Yeamans, Founder & Executive Editor, RTInsights
Panelists: Reid Paquin, Research Director, IDC
Ryan Martin, Principal Analyst, ABI Research
Vinesh Vasnani, Regional Manager, Darktrace
Zachariah Eslami, Delivery Leader, Data and AI Expert Labs and Learning, IBM

3:20 Refreshment Break in the Expo

OVERCOMING TECHNICAL CHALLENGES

4:05 Technical-Based Use Cases from a Large Manufacturing Company
Robert Joseph, PhD, Director, Industry Strategy for Industry 4.0, Stanley Black & Decker

4:25 FIRESIDE CHAT: Implementing AI and IOT at the Edge
Moderator: Joe McKendrick, Industry Insights Editor, RTInsights
Panelists: Joseph Etris, Engineering Project Manager, Data Analyst, Continental
John Auld, Regional Sales Director, ZEDEDA

5:05 Networking Reception in the Expo

6:30 Meetup Groups

7:30 Close of Day 2

AI World program subject to change. Please view website for current details.

7:45 am Registration Opens

8:00 Continental Breakfast

8:20 Breakfast Keynote *Sponsored by Alegion*

9:00 – 11:50 Plenary Keynote Session (see page 4 for details)

12:00 pm Luncheon Keynote: Case Studies of Conversational AI: Real Deployments at Scale *Sponsored by Interactions*

12:25 pm Networking Coffee & Dessert in the Expo (Lunch available for purchase)

TRACK 4

AI in Healthcare
BUSINESS VALUE OUTCOMES

1:30 Opening Remarks
Lynne Dunbrack, Group Vice President, IDC

1:35 CO-PRESENTATION: Catch a Fraudster: How AI and Advanced Analytics find the Needle in the Haystack
Jo-Ellen Abou Nader, Vice President, FWA & Supply Chain Optimization, Prime Therapeutics
Steve Kearney, Medical Director, SAS

2:05 KEYNOTE: Creating a Robust Data Ecosystem to Support the Spectrum of Analytics from Basic Descriptive to Advanced ML/AI
John Pyhtila, PhD, Chief Data and Analytics Officer, Partners HealthCare

2:25 KEYNOTE: Voice and The Future of Precision Care
John Brownstein, PhD, Chief Innovation Officer, Boston Children's Hospital; Professor, Harvard Medical School

2:45 PANEL: Interaction Between Payers, PBMs, VCs and Service Providers: Assessing Recent M&As and Streamlining AI Across All Sectors
Moderator: Charles Jaffe, MD, PhD, CEO, Health Level 7 International
Panelists: John Mattison, MD, CMIO, Emeritus, Kaiser Permanente
Karim Botros, Managing Partner, Echo Health Ventures
Uzair Rashid, Consultant, Healthcare Strategy & Innovation Leader

3:20 Refreshment Break in the Expo

4:05 AI and Advanced Algorithms in Healthcare from the Investor's Perspective
Navid Alipour, Co-Founder and Managing Partner, Analytics Ventures

4:25 PANEL: Emerging Business Models for AI within Healthcare
Moderator: Albine Martin, Executive in Residence, Johns Hopkins University
Panelists: Katherine Andriole, PhD, Director, Research Strategy and Operations, MGH & BWH Center for Clinical Data Science; Associate Professor of Radiology, Harvard Medical School
Neil Carpenter, Senior Advisor, Pivotal
Senthil Kumaran, CIO, virtuwell by Healthpartners

TRACK 5

AI in Pharma
BUSINESS VALUE OUTCOMES

1:30 Opening Remarks
Alan Louie, PhD, Research Director, Life Sciences, IDC

1:35 CO-PRESENTATION: Practical Application of AI in Pharma
Ryan Welsh, CEO, Kyndi
Faye O'Brien, Director, Performance, Metrics and Analytics, AstraZeneca

2:05 KEYNOTE: What Does the World's First Biotech Born in AI Do Differently and Why?
Milind Kamkolkar, Chief Data Officer, Cellarity; Former Chief Data Officer, Sanofi

2:30 How to Integrate AI into the Pharmaceutical Business Model
Dorothee B. Bartels, PhD, Digital Real-World Data Expert; Former Chief Digital Science Officer, BI X (Boehringer Ingelheim's Digital Lab)

2:55 Linking Artificial Intelligence to Business Outcomes
Angeli Möller, PhD, Head of IT Business Partnering Research, Pharmaceuticals Division, Bayer

3:20 Refreshment Break in the Expo

4:05 Bridging Business and Technical Functions: How to Translate AI Between the Two
Eduardo Cornejo, ITS Digital Innovation Market Lead, Sanofi

4:30 PANEL: Assessing the Impact of AI on Business Strategies in the Pharmaceutical Industry
Moderator: Annastasiah Mudiwa Mhaka, PhD, Co-Founder & President, Alliance for Artificial Intelligence in Healthcare
Panelists: Brian Kesselman, Head, IT & Digital Transformation, Pharma, Bayer
Dorothee B. Bartels, PhD, Digital Real-World Data Expert; Former Chief Digital Science Officer, BI X (Boehringer Ingelheim's Digital Lab)
Sebastien Lefebvre, Senior Director, Data Sciences, Genomics and Bioinformatics, Alexion Pharmaceuticals

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TRACK 6

AI and ML in Finance, Banking and Insurance

1:30 Opening Remarks
Rivka Gewirtz Little, Research Director, Global Payment Strategies, IDC

1:35 INTRODUCTORY USE CASE: How Can AI and ML Help Prevent Money Laundering?
Vishal Gossain, Vice President, AML/ATF Analytics, Global Risk Management, Scotiabank; MIT Computer Science and Artificial Intelligence Laboratory

2:00 KEYNOTE: Building a Responsible AI/ML Program in Financial Services
Jason Wittenbach, PhD, Manager, Machine Learning, Lead Researcher in Deep Learning Explainability, Capital One

2:30 USE CASE: Principles of an AI-Ready Analytics Organization: Experience from Fraud Management
Zsolt Sapi, Senior Vice President, Global Independent Fraud Risk Management, Citibank

2:55 USE CASE: Using AI to Monitor AI: A Framework for Concept Drift Detection
Wally Lo Faro, PhD, Vice President Data Science, Operations and Technology, Mastercard

3:20 Refreshment Break in the Expo

4:05 USE CASE CO-PRESENTATION: Conversational AI: Creating Fran
Ben Maxim, Assistant Vice President, Software Development, MSU Federal Credit Union
Ami Iceman-Haueter, Assistant Vice President, Research Digital Experience, MSU Federal Credit Union
Ashleigh Ashbrook, Assistant Vice President, eServices, Member Digital Experience, MSU Federal Credit Union

4:35 INTERACTIVE PANEL: Using Artificial Intelligence and Machine Learning to Predict Consumer Behavior for Financial Institutions
Moderator: Vishal Gossain, Vice President, AML/ATF Analytics, Global Risk Management, Scotiabank; MIT Computer Science and Artificial Intelligence Laboratory
Panelists: Jason Wittenbach, PhD, Manager, Machine Learning, Lead Researcher in Deep Learning Explainability, Capital One
Alex Muller, MBA, Senior Vice President, Chief Product Officer, Synchrony Financial
Ben Maxim, Assistant Vice President, Software Development, MSU Federal Credit Union
Ami Iceman-Haueter, Assistant Vice President, Research Digital Experience, MSU Federal Credit Union

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5:05 Networking Reception in the Expo

6:30 Meetup Groups

7:30 Close of Day 2

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8:20 Breakfast Keynote *Sponsored by Alegion*

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12:00 pm Luncheon Keynote: Case Studies of Conversational AI: Real Deployments at Scale *Sponsored by Interactions*

12:25 pm Networking Coffee & Dessert in the Expo (Lunch available for purchase)

TRACK 7

Applied AI in Energy

1:30 Opening Remarks
Kevin Prouty, Group Vice President, IDC Energy Insights, IDC

1:35 AI @ DOE
Jermon Bafaty, White House Fellow for the Artificial Intelligence and Technology Office (AITO), U.S. Department of Energy

1:45 How AI, IIoT, and Cognitive Digital Twins are Shaping the Future of Energy Industry
Ahmed El Adl, PhD, AI Consulting & Intelligent Solutions Leader, Accenture

2:15 Beyond Asset Automation: AI as a Transformational Foundation in the Energy Industry
Kevin Prouty, Group Vice President, IDC Energy Insights, IDC

2:30 Using AI to Improve Industrial Energy Efficiency
Daiane Piva, Energy Efficiency Improvement Consultant, Tata Steel Europe

2:55 Addressing Multi-Agent Challenges in Energy Systems with AI
Mike Franklin, PhD, Assistant Professor, College of Computing, Kennesaw State University, Marietta Campus

3:20 Refreshment Break in the Expo

4:05 Transforming Asset Inspection in Energy Leveraging Computer Vision & NLP
Shyam Krishnaswamy, Director, Innovation & Strategy, Exelon Corporation

4:35 Using Physical Sensor Data at Scale for Informed Decision-Making
Smaine Zeroug, PhD, Research Director, Applied Math and Data Analytics, Schlumberger

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TRACK 8

AI for Retail & eCommerce

1:30 Opening Remarks
Jon Duke, Research Vice President, Retail Insights, IDC

1:35 Applying AI in Retail & eCommerce: A Market Overview
Jon Duke, Research Vice President, Retail Insights, IDC

2:00 Leveraging AI to Help Entrepreneurs Succeed
Sarah Siu, Data Science Manager, Shopify

2:20 Business at the Speed of AI: An eCommerce Journey
Bahman Bahmani, PhD, Vice President, Data Science and Engineering, Rakuten

2:40 PANEL: Retail & eCommerce Practitioners
Moderator: Aili McConnon, Contributor, Wall Street Journal
Panelist: Michael Feindt, PhD, Founder, BlueYonder, A JDA Company
Mason Sheffield, Director of Lab Technology - Lowe's Innovation Labs, Lowe's Companies, Inc.
Nitin Verma, VP Digital Solutions, Staples

3:20 Refreshment Break in the Expo

4:05 Transforming Physical Work with Applied AI for Supply Chain Robotics
Chris Geyer, PhD, Engineering Fellow, Berkshire Grey

4:35 Causal Inference and Uplift Modeling in Digital Marketing
Jen Wang, PhD, Data Science Manager, Wayfair

TRACK 9

Building Conversational, Customer-Driven Applications

1:30 Opening Remarks
William Meisel, PhD, President, TMA Associates

1:35 Rethinking Customer Voice in a Digital World
Ian Firth, Vice President, Products, Speechmatics

2:05 Automating Conversations with Customers: Efficiency and Effectiveness
William Meisel, PhD, President, TMA Associates

2:20 How Conversations Will Help You Build a Better Customer Experience
Ian Beaver, PhD, Chief Scientist, Intelligent Self Service, Verint

2:40 Adding Creativity and Body Language to the Conversational Interface
Mark Walsh, Founder and CEO, Motional.ai

3:00 Eno's Deep Learning–Powered Natural Language Understanding
Erik Mueller, PhD, Senior Director, Conversational AI, Capital One

3:20 Refreshment Break in the Expo

4:05 Armchair Interview: SRI Case Studies in Conversational Applications
Moderator: Reenita Malholtra Hora, Director of Marketing & Communications, SRI International
Panelist: Amir Tamrakar, PhD, Sr. Technical Manager, SRI International

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5:05 Networking Reception in the Expo

6:30 Meetup Groups

7:30 Close of Day 2

HOTEL & TRAVEL
Experience Boston

As one of the most historic cities in the United States, Boston offers unforgettable adventure with exceptional food, sporting events, music venues, and beautiful parks. Beyond its deep history, Boston is home to numerous universities and colleges which continue to attract scholars, scientists, philosophers and writers who shape its evolving culture. Attend AI World Conference & Expo, located on Boston's historic waterfront, to experience this modern, innovative city and its deep roots. With so many fascinating sights and points of interest, the toughest choice will be which one to experience first!

AI World program subject to change. Please view website for current details.

CONFERENCE VENUE:

Seaport World Trade Center
200 Seaport Boulevard
Boston, MA 02210

HOTEL: Seaport Hotel
(Located directly across the street)

One Seaport Lane
Boston, MA 02210

RESERVATIONS: Go to AIWorld.com/travel

Discounted Room Rate: $309
Discounted Cut-off Date: September 24

Visit **AIWorld.com/travel**

7:45 am Registration Opens

8:00 Continental Breakfast

8:15 am – 12:00 pm Plenary Keynote Session (see page 4 for details)

12:10 pm Luncheon Keynote: AI/ML is Changing the Face of Enterprise IT *Sponsored by VMware*

12:30 Networking Coffee and Dessert in the Expo (Lunch available for purchase) – **Last Chance for Viewing**

TRACK 10

Preparing Big Data for Automation and Monetization

1:45 Opening Remarks: Preparing Big Data for Automation and Monetization
Judith Hurwitz, President, Hurwitz & Associates

2:10 Panel: How Organizations are Monetizing Data to Support Business Goals
Moderator: Judith Hurwitz, President & CEO, Hurwitz Associates
Panelists: Chris Harding, Commissioner Massachusetts Department of Revenue, Commonwealth of Massachusetts
Wilfred Justin, Head, AWS AI/ML Evangelism and Partnerships, Amazon (AWS)
Steve Davis, Sr. Vice President, Data Strategy and Cross-Market Offerings, Optum

2:40 PANEL: Chief Data Officers Speak Out on Monetizing Big Data with AI
Moderator: Vishal Kumar, CEO and President, AnalyticsWeek
Panelist: Prakriteswar Santikary, PhD, Vice President and Global Chief Data Officer, ERT
Pawan Trivedi, Principal Consultant – Client Solutions, Services Transformation Group, Atos Syntel
Slawek Kierner, Senior Vice President | Chief Data and Analytics Officer, Humana
Dell Executive

3:10 Networking Break

3:25 Digital Transformation through Data-Driven Revenue Strategies
Lynne Schneider, Research Director, Data as a Service, IDC

3:55 PANEL: The Data Preparation Cycle from Exploration to Acquisition to Feature Engineering
Moderator: Henry Morris, PhD, Principal, Henry Morris Analytics
Panelists: Suresh Kumar, Head of AI Solutions, PARC
Max Kirby, Director, Cloud Platform Solutions, Publicis.Sapient/Google
Paul Cordero, Director of Product Sales, Cyber and Intelligence Solutions (CAI), Brighterion
Jim Balchunas, Senior Consultant, Credit Suisse

4:45 Close of AI World 2019

TRACK 11

Automating Strategic Enterprises Roles & Functions

1:45 Opening Remarks
Mickey North Rizza, Program Vice President, Enterprise Applications and Digital Commerce, IDC

1:50 PANEL: Augmenting Human Intelligence for the Future of Work
Moderator: Steve Ardire, Force Multiplier 'Merchant of Light', Independent AI Startup Advisor
Panelists: Bryan Dai, CEO, Daivergent
Norbert, Monfort, Vice President, IT Transformation and Innovation, Assurant
Ivan Yamshchikov, AI Evangelist, ABBYY

2:20 AI for Strategic Enterprise Functions: A Market Overview
Mickey North Rizza, Program Vice President, Enterprise Applications and Digital Commerce, IDC

2:40 Applied AI in Multiple Phases of the Architecture, Engineering, and Construction Sector
Badri Hiriyur, PhD, Director of AI, Thornton Tomasetti

3:10 Networking Break

3:25 Building a Team That Lasts: How to Build an AI Team for the Future
Adam Jenkins, PhD, Associate Director, Global Data Science, Biogen Inc.

3:50 The Nature of Work is Changing with Artificial Intelligence
Craig Le Claire, Vice President, Principal Analyst, Forrester Research

4:15 Preparing your Data Center for Digital Transformation and AI OPs
Dawn Fitzgerald, Director of Digital Transformation Data Center Operations, Schneider Electric

4:45 Close of AI World 2019

TRACK 12

AI in Telecom & Mobile

1:45 Opening Remarks
Berge Ayvazian, Senior Analyst and Consultant, Wireless 20/20
Phil Marshall, Chief Research Officer at Tolaga Research

1:50 How 5G and AI Will Drive a Hardware Evolution
Nancy Ranxing Li, PhD, Group Product Manager, Edge Computing, Verizon

2:00 5G Networks, AI and Machine Learning Power Enterprise Digital Transformation
Ali Imran, PhD, Co-Founder and Chief Technical Advisor, AISON

2:30 PANEL: State of AI in Telecom and Wireless
Moderator: Berge Ayvazian, Senior Analyst and Consultant, Wireless 20/20
Panelists:
Arka Dhar, Chief Executive Officer, Zinier
Manish Mangal, Chief Technology Officer, Network Services, Tech Mahindra
Nancy Ranxing Li, PhD, Group Product Manager, Edge Computing, Verizon
Phil Marshall, Chief Research Officer at Tolaga Research

3:25 Networking Break

3:40 5G Networks, AI and Machine Learning Power Enterprise Digital
Ali Imran, PhD, Co-founder and Chief Technical Advisor, AISON

4:15 PANEL: Venture Investments, Innovation, and Start-ups in AI, 5G, and IoT
Moderator: Berge Ayvazian, Senior Analyst and Consultant, Wireless 20/20
Panelists:
Ali Imran, PhD, Co-Founder and Chief Technical Advisor, AISON
Lu Zhang, Founding and Managing Partner, Fusion Fund
Deepak Verma, Partner, Innospark Ventures

4:45 Close of AI World 2019

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7:45 am Registration Opens

8:00 Continental Breakfast

8:15 am – 12:00 pm Plenary Keynote Session (see page 4 for details)

12:10 pm Luncheon Keynote: AI/ML is Changing the Face of Enterprise IT *Sponsored by VMware*

12:30 Networking Coffee and Dessert in the Expo (Lunch available for purchase) – **Last Chance for Viewing**

TRACK 13

AI in Healthcare

PRACTICAL APPLICATION OF AI IN CLINICAL CARE

1:45 Opening Remarks
Cynthia Burghard, Research Director, Value-based Healthcare IT Transformation Strategies, IDC Health Insights

1:50 From an Algorithm to an Enterprise Imaging Product
Phillippe Raffy, PhD, Executive Director, Artificial Intelligence, Change Healthcare

2:20 KEYNOTE: Processes and Infrastructure for Maximizing the Potential of Algorithmically Directed Care
Sandy Aronson, Executive Director of IT, Partners HealthCare Personalized Medicine

2:45 AI in the Healthcare Enterprise
Mark Michalski, MD, Executive Director, Center for Clinical Data Science, Mass General Hospital and Brigham and Women's Hospital

3:10 Networking Break

3:25 Deep Learning for Clinical Natural Language Processing
Sadid Hasan, PhD, Senior Director of Artificial Intelligence, CVS Health

3:45 DigitalMe™: Patients Driving Discovery
Dean Cerrato, Director, Data Engineering, PatientsLikeMe

4:05 PANEL: Data Scientists Are from Mars, Clinicians are From Venus: Bridging AI Communication Between the Two Teams
Moderator: David Ledbetter, Data Scientist, Children's Hospital Los Angeles
Panelists: Anthony Chang, MD, Chief Intelligence and Innovation Officer, Medical Intelligence and Innovation Institute, CHOC
John Miller, MD, Assistant Professor, Ophthalmology, Harvard Medical School; Director, Retinal Imaging, Massachusetts Eye and Ear Infirmary
Daniel Chertok, PhD, Senior Data Scientist, Clinical Analytics Team, NorthShore University HealthSystem

4:45 Close of AI World 2019

TRACK 14

AI in Pharma

CROSS-FUNCTIONAL IMPACT OF AI

1:45 Opening Remarks
Mike Townsend, Research Manager, Life Sciences Commercial Strategies, IDC

1:50 Medication Safety – AI
Ram Subramanian, CTO, Engineering, PerceptiMed, Inc.

2:20 KEYNOTE: An Integrated Approach of AI in the Pharmaceutical Industry
John Baldoni, PhD, Chief Technical Officer, Integral Health

2:45 The Nature of an AI Revolution and What it Means for Pharma
Peter Henstock, PhD, AI & Machine Learning Lead, Pfizer

3:10 Networking Break

3:25 Transforming Portfolio Decision Making Through the Use of AI
Grace You, PhD, Director, Head of Global Portfolio Management, Valuation & Analytics, EMD Serono

DISRUPTING PHARMACOVIGILANCE AND DRUG DISCOVERY

3:45 Leveraging AI to Transform Pharmacovigilance
Srikanth Ramakrishnan, Business Technology Leader, Information Technology, Johnson & Johnson

4:05 PANEL: Revolutionizing Drug Discovery with Artificial Intelligence and Machine Learning
Moderator: Alex Zhavoronkov, PhD, Founder, Insilico Medicine
Panelists: Imran Haque, PhD, VP Data Science, Recursion Pharmaceuticals
Jeffrey Lu, CEO, Engine Biosciences
Anne Carpenter, PhD, Institute Scientist, Imaging Platform Senior Director, Broad Institute of Harvard and MIT

4:45 Close of AI World 2019

TRACK 15

AI and ML in Finance, Banking and Insurance

1:45 Opening Remarks
Rivka Gewirtz Little, Research Director, Global Payment Strategies, IDC

1:50 USE CASE CO-PRESENTATION: Enabling Advanced Analytics Implementations at Enterprise Level; Tech and Business Perspectives
Srinivaas Krovvidy, PhD, Head, Advanced Analytics Enablement, Enterprise Data, Fannie Mae
Prabhakar Bhogaraju, MBA, Vice President, Digital Products, Fannie Mae

2:20 USE CASE: Machine Learning for Data Quality Management on Big Data Platform
Jennifer Yang, MBA, Head, Data Management and Data Governance, Enterprise Data Technology, Wells Fargo

2:45 Creating a Learning System: Using AI to Build Consumer Experiences that Continuously Improve
Alex Muller, MBA, Senior Vice President, Chief Product Officer, Synchrony Financial

3:10 Networking Break

3:25 Anonymous ID Stitching
Sridhar Raman, Product Development Leader, Intuit, Inc.

3:45 Collaborative Filtering for Personalized Content Discovery
Siddharth Mehrotra, Vice President, Technology, Citi

4:05 USE CASE CO-PRESENTATION: Smart Index Management with AI... Making Smart Index Smarter
Shihui (Sophie) Chen, Data Scientist, Machine Intelligence Lab, Nasdaq, Inc.
Xuyang (Bill) Lin, Senior Data Scientist, Machine Intelligence Lab, Nasdaq, Inc.

4:25 INTERACTIVE PANEL: The AI Identity: Applying Advanced Analytics to Digital Entity Management
Rivka Gewirtz Little, Research Director, Global Payment Strategies, IDC
Zsolt Sapi, Senior Vice President, Global Independent Fraud Risk Management, Citibank
Vishal Gossain, Vice President, AML/ATF Analytics, Global Risk Management, Scotiabank; MIT Computer Science and Artificial Intelligence Laboratory
Stuart Vaeth, Vice President, Digital Identity, Cyber & Intelligence Solutions, Mastercard
Michael Diamond, Executive Director, Product Management, Digital Authentication and Authorization, JP Morgan Chase

4:55 Close of AI World 2019

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8:00 Continental Breakfast

8:15 am – 12:00 pm Plenary Keynote Session (see page 4 for details)

12:10 pm Luncheon Keynote: AI/ML is Changing the Face of Enterprise IT *Sponsored by VMware*

12:30 Networking Coffee and Dessert in the Expo (Lunch available for purchase) **– Last Chance for Viewing**

TRACK 16

AI in Robotics

1:45 Opening Remarks
Remy Glaisner, Research Director, WW Robotics, IDC

1:50 Robotics Enable Flexible Automation
Remy Glaisner, Research Director, WW Robotics, IDC

2:20 Cognitive Robotics: Where Are We Now? Where Are We Going?
Dan Kara, Vice President, Robotics and Intelligent Systems, WTWH Media

2:50 Collaborative Multi-Agent AI in Complex Mixed Multi-Robot Systems
Mike Franklin, PhD, Assistant Professor, College of Computing, Kennesaw State University, Marietta Campus

3:25 Software Defined Robotics in Industrial Automation
Derik Pridmore, Co-founder, CEO, Osaro

3:10 Networking Break

3:55 PANEL: Cutting-Edge AI and Robotics Startups
Moderator: Tom Ryden, Executive Director, MassRobotics
Panelists:
Peter Howard, CEO, Realtime Robotics
Jay M. Wong, Co-Founder and Head of Software
Kosta Sidopoulos, Vice President, Sales and Business Development, Deep AI Technologies

4:45 Close of AI World 2019

TRACK 17

Cutting Edge AI Research

1:45 pm Opening Remarks
Ritu Jyoti, Program Vice President, Artificial Intelligence Strategies, IDC

1:50 Synthetic Data and Text-mining: Using Simulations and Natural Language Processing Build Datasets
Hoo Chang Shin, PhD, Senior Research Scientist and Solutions Architect, NVIDIA

2:20 PANEL: Data for Training Models – How Much Data Do you Need?
Moderator: Ritu Jyoti, Program Vice President, Artificial Intelligence Strategies, IDC
Panelists: Raj Minhas, PhD, Vice President, Director, Interaction and Analytics Laboratory, PARC
Karen Myers, PhD, Lab Director, SRI International's Artificial Intelligence Center
Lucas Siow, CoFounder, ProteinQure

2:50 Performance Breakthroughs through Machine Learning and Deep Networks
Mark Stefik, PhD, Research Fellow, Lead, Explainable AI, PARC

3:10 Networking Break

3:25 PANEL: Fairness, Trustworthiness, and Transparency for AI Systems
Moderator: Karen Myers, PhD, Lab Director, SRI International's Artificial Intelligence Center
Panelists: Roberta Stempfley, Director CERT Division, Software Engineering Institute, Carnegie Mellon University
Victor S.Y. Lo, PhD, Head of Data Science and Artificial Intelligence, Workplace Solutions, Fidelity Investments
Mark Stefik, PhD, Research Fellow, Lead, Explainable AI, PARC
Pin-Yu Chen, PhD, Chief Scientist, RPI-IBM AI Research Center, Research Staff Member, Trusted AI Group, IBM Thomas J. Watson Research Center
AI Executive to be Announced

4:15 SPOTLIGHT: Treatment Optimization and Personalization through Integration of Causal Inference and Uplift Modeling
Victor S.Y. Lo, PhD, Head of Data Science and Artificial Intelligence, Workplace Solutions, Fidelity Investments

4:45 Close of AI World 2019

PRESENT A POSTER & **SAVE $50**

Cambridge Innovation Institute encourages AI World attendees to gain further exposure by presenting their work in the poster sessions. Posters will be seen by our international delegation, representing leaders from top AI leaders from research, finance, hospitals, robotics, manufacturing, hospitality, telecommunications, retail, energy, pharmaceutical, biotech, academic, government institutions and more! To secure a poster board and inclusion in the conference materials, your abstract must be submitted, approved and your registration paid in full by September 27.

Please see **AIWorld.com/Posters** for more information.

Poster inquiries: jring@AIWorld.com

Students* presenting a poster can attend AI World for **$299.**

* Full-time graduate students including Masters, PhD candidates and post-docs are eligible for the student poster rate. A poster is required.

Special Events

Take advantage of AI World's Special Events & Expo Pass and find tangible solutions to help solve real-world business problems. Special events include:

EXHIBIT HALL

Explore solutions and strategic partnerships with leading AI providers with dedicated viewing hours each day:

WEDNESDAY: 5:00 – 6:30 PM

THURSDAY: 11:50 AM – 6:30 PM

FRIDAY: 10:35 AM – 1:45 PM

NETWORKING

AI World brings together a cross-industry delegation of 2,700+ attendees from across the AI ecosystem. Use our dedicated networking platform to make the connections you need to drive your AI initiatives forward, and take advantage of 15+ hours of open networking time throughout the day in the expo.

MEETUP GROUPS

Meetup events are hands-on gatherings where members and organizers get together to connect, discuss, and practice activities related to their shared interests. Join local Boston groups focused on AI trends, opportunities and challenges, including

BOSTON NEW TECHNOLOGY   **COALESCE.ai**   **WITI** women in technology international™ build. empower. inspire.

TECHNOLOGY SOLUTIONS THEATER

See tech demos and new products from industry leaders and exciting newcomers in our technology solutions theater, right on the expo floor. Participating companies include:

Booz | Allen | Hamilton®   **CRAY** a Hewlett Packard Enterprise company

DataRobot   **D&LL**Technologies

Innodata.   **interactions**

SPARK BEYOND   **VERINT next IT**   VIDADO WE BUILD GREAT AI

STARTUP PAVILION

Meet the next generation of AI entrepreneurs in the dedicated startup pavilion on the expo floor, featuring spotlight theater presentations, the second annual AI World Startup Awards and exhibit booths. Participating companies include:

Ai Network   AINFINITY   AI.REVERIE   BAU Bahçeşehir University

CAMP TEK   cape start your dev & data partner   CAPICE machine learning for everyone   DAIVERGENT   firefly.ai

AXON.AI   KYNDI   LIQUIDTECHNOLOGY   ONTOFORCE links for lives

openmetrik   PerceptiMed   roborus   TalentSeer

BONUS ACCESS: SESSIONS

Dig deeper with daily conference sessions dedicated to some of the timeliest AI topics, open to all:

WEDNESDAY: SEMINAR 4 - AI FOR BUSINESS EXECUTIVES *(see pg. 9)*

THURSDAY: TRACK 9 – BUILDING CONVERSATIONAL INTERFACES *(see pg. 12)*

FRIDAY: TRACK 16 – AI & ROBOTICS: STATE OF THE PRACTICE *(see pg. 15)*

Workshops

Attendee Roundtables

Join our AI World speaking faculty covering a variety of critical business and technology topics in informal, small group format that allows all participants to meet potential collaborators, share examples from their own work, vet ideas with peers, and be part of a group problem-solving endeavor.

AI in Personalized Medicine and Digital Health
Moderator: Ana Maiques, CEO, Neuroelectrics

Intelligent Automation – No Data Scientist Required
Moderator: Kashyap Kompella, CPA and Chief Analyst, rpa2ai

Preparing for the Next Wave of AI/ML Technologies
Moderator: Mike Riordan, Vice President, Entanglement Institute, Inc.; former instructor at Ethics & Emerging Military Technology Graduate Program, U.S. Naval War College

Trends in The Evolving Intelligent IoT
Moderator: Ken Briodagh, Editorial Director, IoT Evolution World

Practical Application of AI and ML in Clinical Care
Moderator: Charles Jaffe, MD, PhD, CEO, Health Level 7 International

AI to Improve Patient Efficiency, Provider Efficacy and Treatment Effectiveness
Moderator: Senthil Kumaran, CIO, virtuwell by Healthpartners

How Can the Use of Natural Language Processing Benefit the Pharma Industry?
Moderator: Sebastien Lefebvre, Senior Director, Data Sciences, Genomics and Bioinformatics, Alexion Pharmaceuticals

Diversification of Pharma Portfolio through Digital Services
Moderator: Angeli Möller, PhD, Head of IT Business Partnering Research, Pharmaceuticals Division, Bayer

Breaking Down Silos: Creating Cross-Functional AI Teams and Making Data Available to All
Moderator: Abel Archundia, Global Head of IT & Digital Transformation, Bayer Pharmaceuticals

What is Better for Introducing AI to Larger Companies – Centralized COE vs Distributed Collective Development
Moderator: Alex Muller, MBA, Senior Vice President, Chief Product Officer, Synchrony Financial

Enabling Advanced Analytics Implementations at Enterprise Level – Tech and Business Perspectives
*Moderators: Srinivaas Krovvidy, PhD, Head, Advanced Analytics Enablement, Enterprise Data, Fannie Mae
Prabhakar Bhogaraju, MBA, Vice President, Digital Products, Fannie Mae*

Solving Anonymous ID Stitching – Handling Multiple Personas in Silo-ed Systems
Moderator: Sridhar Raman, Product Development Leader, Intuit, Inc.

Transforming Retail, eCommerce, & the Supply Chain with AI/ML
Moderator: Aili McConnon, Contributor, Wall Street Journal

Automating Conversations for an Improved Customer Experience
Moderator: William Meisel, PhD, President, TMA Associates

Preparing Big Data for Automation & Monetization
Moderator: Judith Hurwitz, President, Hurwitz & Associates

Using AI to Improve Energy Efficiency & Transform the Energy Industry
Moderator: Kevin Prouty, Group Vice President, Energy and Manufacturing Insights, IDC

Augmenting Human Intelligence & The Future of Work
Moderator: Steve Ardire, AI Startup Advisor and "Merchant of Light"

Making AI Trustworthy
Moderator: Pin-Yu Chen, PhD, Chief Scientist, RPI-IBM AI Research Center, Research Staff Member, Trusted AI Group, IBM Thomas J. Watson Research Center

Performance Breakthrough
Moderator: Roberta Stempfley, Director, CERT Division, Software Engineering Institute, Carnegie Mellon University

▶ Design x AI

Hosted by **SRI International**

Exploring the symbiosis between people & technology

Each period of scientific revolution and shift in technology has been accommodated by new design methodologies to satisfy the needs of the populace. We've recently entered into an exciting shift in technology, one led by developments in AI, that has brought with it new questions around ethics, reliability, safety and trustworthiness. While these questions will be addressed among many disciplines, it's the role of the designer to interpret and translate the answers of the day to the end user. This workshop presents a forum for design practitioners, thought leaders and audience participants to discuss the design challenges that AI presents and possible strategies to move us forward.

Chair: Paul Chang, Director of Design, SRI International

▶ RPA and Intelligent Automation

All industries face unprecedented operating challenges as they manage mounting budget constraints while trying to become more agile and increase business objectives. Unable, in many cases, to hire more employees, enterprise leaders are forced to spend dollars on contractor support or shift resources away from strategic work to handle routine, manual tasks. Robotic process automation (RPA) provides businesses the capability to operate more efficiently with reduced resources. Furthermore, RPA is moving from the back office to the front and empowering knowledge workers. Hear from thought leaders and subject matter experts who will discuss leading use cases for intelligent automation and its advantages over machine learning approaches.

Chair: Kashyap Kompella, CFA, CEO and Chief Analyst, rpa2ai

AI Hackathon

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NEW at AI World Conference & Expo, the AI Data Science Hackathon will bring together innovative data scientists and developers from across the ecosystem to solve real-world data challenges in applying artificial intelligence and machine learning. Working in teams, participants will build and improve on pipelines, datasets, tools and other projects from fintech, insurance, healthcare, pharma, and more.

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Conference-at-a-Glance

⚙ = Indicates Expo Pass Events

Wednesday | Day 1 — Expo Hours | 5:00pm - 6:30pm

Time	Event
8:00-9:00	Continental Breakfast *(Harborview Foyer)*
9:00-12:00	AI World Executive Summit *(Harborview)*
12:00-1:15	Enjoy Lunch on Your Own
1:15-4:10	Concurrent Seminars:

Seminar 1: AI in Customer Analytics *(Waterfront 2)*	Seminar 2: Personalized Medicine *(Cityview 2)*	Seminar 3: AI & Cybersecurity *(Beacon Hill)*
⚙ Seminar 4: AI for Business Leaders *(Cityview 1)*		Seminar 5: Making AI Trustworthy *(Waterfront 1)*

Time	Event
2:30-5:00	⚙ GLORIA Partnership Fair *(Waterfront 3)*
4:20-5:00	⚙ Plenary Keynote Presentation *(Harborview)*
5:00-6:30	⚙ Grand Opening Reception in the Expo *(Commonwealth Hall)* / ⚙ AI World Data Science Hackathon *(Commonwealth Hall)*
6:30-7:30	⚙ Attendee Roundtable Discussions *(Commonwealth Hall)* / ⚙ Meetup: Analytics Week *(Cityview 1)* / ⚙ Meetup: deep1 *Must register beforehand at: deep1.org/autodesk-event*

Thursday | Day 2 — Expo Hours | 11:50am - 6:30pm

Time	Event
8:00-8:45	Continental Breakfast *(Harborview Foyer)*
8:20-8:45	Breakfast Keynote *sponsored by Alegion (Harborview)*
9:00-11:50	Plenary Keynote Presentation *(Harborview)*
9:00-5:05	⚙ AI World Data Science Hackathon *(Commonwealth Hall)*
12:00-6:30	⚙ AI Technology Solutions Theater *(Commonwealth Hall)* / ⚙ AI Startup Theater *(Commonwealth Hall)*
12:00-12:25	⚙ Luncheon Keynote *sponsored by Interactions (Harborview)* *(Complimentary Lunch Voucher will be Provided to Those who Attend this Keynote)*
12:25-1:30	⚙ Networking Coffee & Dessert Break in the Expo *(Commonwealth Hall)* *(Lunch Available for Purchase)*
1:30-5:05	Concurrent Tracks:

Track 1: Big Data to AI *(Waterfront 1)*	Track 2: Emerging AI Technologies *(Cityview 1)*	Track 3: AI in IoT/Manufacturing *(Waterfront 2)*
Track 4: AI in Healthcare *(Harborview 2)*	Track 5: AI in Pharma *(Harborview 3)*	Track 6: AI & Financial Services *(Cityview 2)*
Track 7: AI in Energy *(Waterfront 3)*	Track 8: AI for Retail & eCommerce *(Cambridge)*	⚙ Track 9: Building Conversational Applications *(Harborview 1)*

Time	Event
1:30-5:00	⚙ WORKSHOP: Design x AI *(Beacon Hill)*
3:20-4:05	⚙ Refreshment Break in the Expo *(Commonwealth Hall)* 💵 $100 Gift Card Raffle!* Drawing at 3:55pm
5:05-6:30	⚙ Networking Reception in the Expo *(Commonwealth Hall)* 💵 $100 Gift Card Raffle!* Drawing at 6:20pm
6:30-7:30	⚙ Meetup Group: WITI *(Cityview 1)* / ⚙ Meetup Group: Coalesce *(Cityview 2)* / ⚙ Meetup Group: NEIBC *(Waterfront 1)*

Friday | Day 3 — Expo Hours | 10:35am - 1:45pm

Time	Event
8:00-9:00	Continental Breakfast *(Harborview Foyer)*
8:15-10:35	Plenary Keynote Presentation *(Harborview)*
9:00-1:30	⚙ AI World Data Science Hackathon *(Commonwealth Hall)*
10:30-10:35	Start-Up Awards Announcement *(Harborview)*
10:35-10:50	⚙ Coffee Break in the Expo *(Commonwealth Hall)* 🎤 Apple Watch™ Raffle!* Drawing at 10:40am
10:45-1:30	⚙ AI Technology Solutions Theater *(Commonwealth Hall)*
10:50-12:00	⚙ Plenary Keynote Presentation *(Harborview)*
12:10-12:30	⚙ Luncheon Keynote *sponsored by VMWare (Harborview)* *(Complimentary Lunch Voucher will be Provided to Those who Attend this Keynote)*
12:30-1:45	⚙ Networking Coffee & Dessert Break in the Expo - Last Chance for Viewing *(Lunch Available for Purchase)* *(Commonwealth Hall)* 🎧 Bose® QC®35 Wireless Headphones Raffle!* Drawing at 1:35pm
1:45-4:45	Concurrent Tracks:

Track 10: Monetizing Big Data *(Waterfront 2)*	Track 11: AI for Strategic Enterprise Functions *(Harborview 1)*
Track 12: AI in Telecom & Mobile *(Cambridge)*	Track 13: AI in Healthcare *(Harborview 3)*
Track 14: AI in Pharma *(Harborview 2)*	Track 15: AI in Financial Services *(Cityview 2)*
⚙ Track 16: AI & Robotics *(Waterfront 1)*	Track 17: Cutting Edge AI Research *(Cityview 1)*

Time	Event
1:45-3:15	⚙ WORKSHOP: RPA and Intelligent Automation (Beacon Hill)
4:45	Close of AI World 2019 - See You Next Year!

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