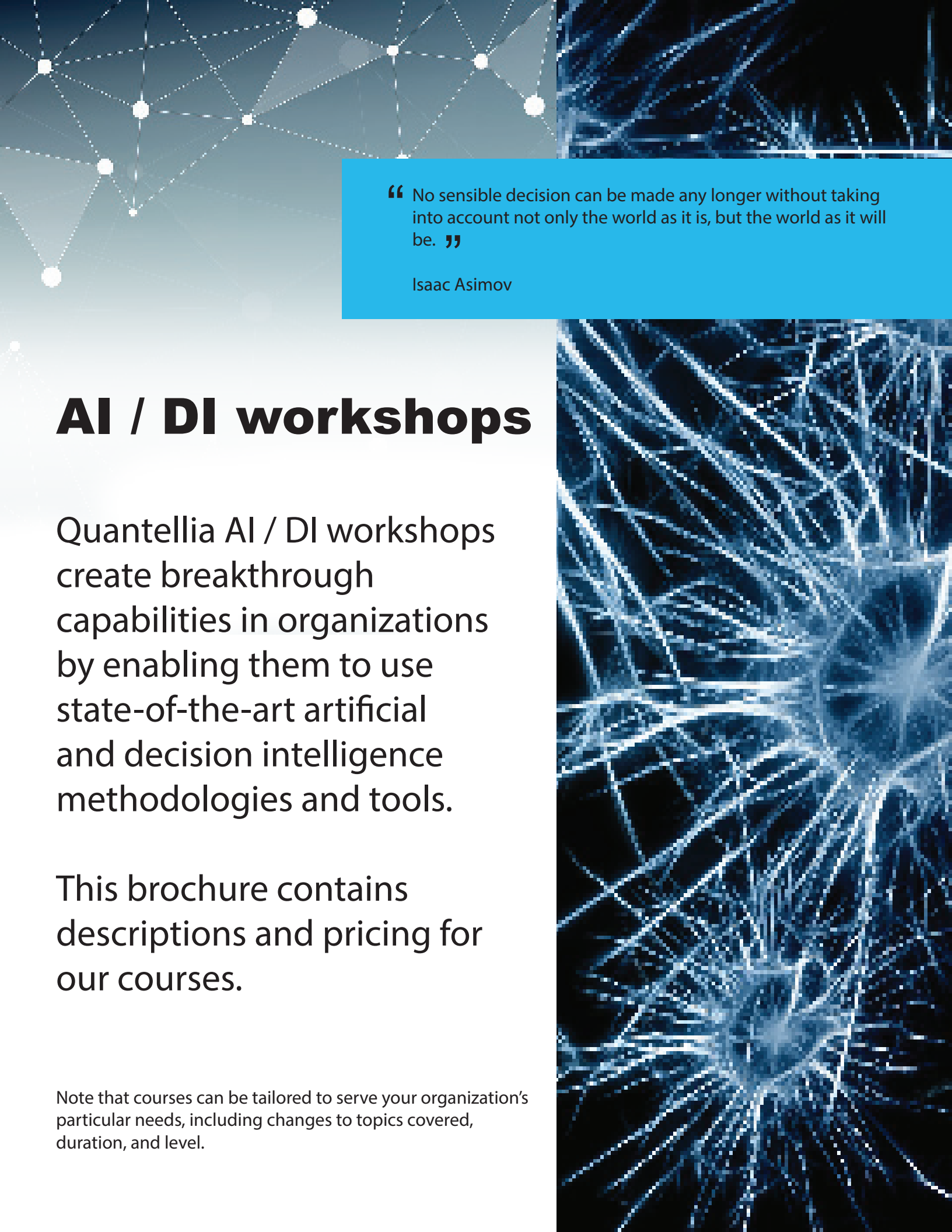


Quantellia AI and DI Workshops



“ No sensible decision can be made any longer without taking into account not only the world as it is, but the world as it will be. ”

Isaac Asimov

AI / DI workshops

Quantellia AI / DI workshops create breakthrough capabilities in organizations by enabling them to use state-of-the-art artificial and decision intelligence methodologies and tools.

This brochure contains descriptions and pricing for our courses.

Note that courses can be tailored to serve your organization's particular needs, including changes to topics covered, duration, and level.

Getting Started with Decision Intelligence

Every decade or so, a new business discipline is born. Did you know there was a time before project planning? Before Business Intelligence? Before Business Process Management?

Today, Decision Intelligence is the next such breakthrough: it is a proven approach that has saved hundreds of millions of dollars for organizations worldwide. It brings the best of AI, machine learning, systems modeling, complex systems analysis, and more to multiple roles in the organization.

Join us for the workshop "Getting Started with Decision Intelligence" plus, optionally, "Decision Intelligence Hands-On."

Course objectives:

By the end of this module, participants will learn:

- How to combine the best evidence and human expertise in your organization to answer the question: "If I make this decision today, what will be the outcome tomorrow?"
- How to avoid the most common traps that cause data-driven, decision support projects to fail, and how to radically accelerate the value you receive from all data, big and small.
- How to integrate data into your most important decisions.
- The three secrets of small data, and how you can use them to supercharge your decision intelligence.
- How to work hand-in-hand with Artificial Intelligence systems to support your most important decisions.
- How to ensure your team is aligned around outcomes, so that every decision pulls in the same direction.
- How to create a decision collaboration team to design, test, and update your organization's most important decisions, creating continuous improvement and organizational learning.
- The secret to "seeing around corners" – predicting the future by combining data with your team's expertise.
- How to combine intangible factors, like employee engagement and customer experience, with tangible ones, like cost of goods and closed sales.
- How to manage assumptions and to change direction when reality doesn't quite match them.
- Two secrets that, together, will increase your team's decision-making intelligence tenfold.
- Why great organizations make terrible decisions, and how to fix them.
- How to make decisions that have multiple outcomes.
- How decision intelligence uses the latest research in neurobiology, cognitive science, and collaboration to make decision-making intuitive, natural, visual, and social.

Getting Started with Decision Intelligence - Course Outline

WHY?

1. Big data, big models, big complexity
2. The Decision Factory
3. The Relevance Gap
4. Research findings: how many big decisions are designed, tracked, monitored, improved?
5. AI, Predictive Analytics, and Forecasting: A Short History of the Future

WHAT?

1. Benefits of decision modeling
2. Decisions in your organization that can be modeled
3. Case studies

HOW?

1. Trouble in Big Data Paradise: Getting past data
2. Creating a Living Decision Model
3. The Decision Model Archetype Diagram
4. Assumption Management 101
5. Decision Design
6. Building the Decision Model
7. Combining quantitative and qualitative data
8. AI insertion points
9. Sensitivity Analysis
10. Key Factors and Assumptions
11. Incremental Design and Refine
12. Wrap up and next steps
13. Objectives review
14. Action plan

Methodology

This course combines formal instruction with frequent reference to real case studies from the instructor's personal experience as a decision modeler. The course is practical and interactive, with plenty of time for questions.

Participants

The course is designed for professionals at multiple levels and from multiple departments. Since the best decisions are made from diverse points of view, the ideal student mix is also diverse, including technical as well as non-technical experts.

Length

7 hours

Add-on module: Decision Intelligence Hands-On

In Decision Intelligence Hands-On, you'll take a deeper dive, with interactive exercises. You'll learn what it means to be a Decision Intelligence Scientist, Architect, and Facilitator.

Course Outline:

Why we are here: Decision Outcomes

- Understanding true outcomes versus proxies
- System 1: outcome brainstorming

What we can do: Decision Levers

- Understanding Levers versus externals
- Unsticking lever ideology: lever brainstorming

What's around us: Decision Externals

- Sources of external data
- Sources of external expertise
- Assumptions: externals with uncertainty
- Forecasts: externals with time

The nuts and bolts: Dependencies

- Simple dependency equations
- Complex dependencies: logic and code
- Determining dependencies through machine learning / Big Data

Running the model: simulating the future

- Implementing the decision in the organization
- Tracking assumptions and "back to the drawing board"

Methodology

This course alternates instruction with hands-on group exercises.

Length

7 hours

AI Strategic Assessment

You've heard about AI, and may even have an AI project or two running in your organization. But are you making the best use of this technology? Where are the greatest opportunities?

In this workshop, you'll learn how to identify where the opportunities for AI exist within your organization, and how to take the best first steps to maximize success.

Based on over 30 years in the business and dozens of machine learning projects, the instructor, Dr. Lorien Pratt, will share her unique perspective on common mistakes and best practices, radically reducing your risk in deploying this breakthrough technology.

Course objectives:

By the end of this course, participants will learn how to identify opportunities for AI throughout an organization and best practices for resourcing and managing AI teams. The course's focus is to demystify AI, and to add it to your toolbox of management / technologies to drive revenues and reduce costs in your organization, as well as to achieve multiple-bottom-line goals like environmental and social stewardship.

Methodology

Interactive lecture including occasional group exercises.

Participants

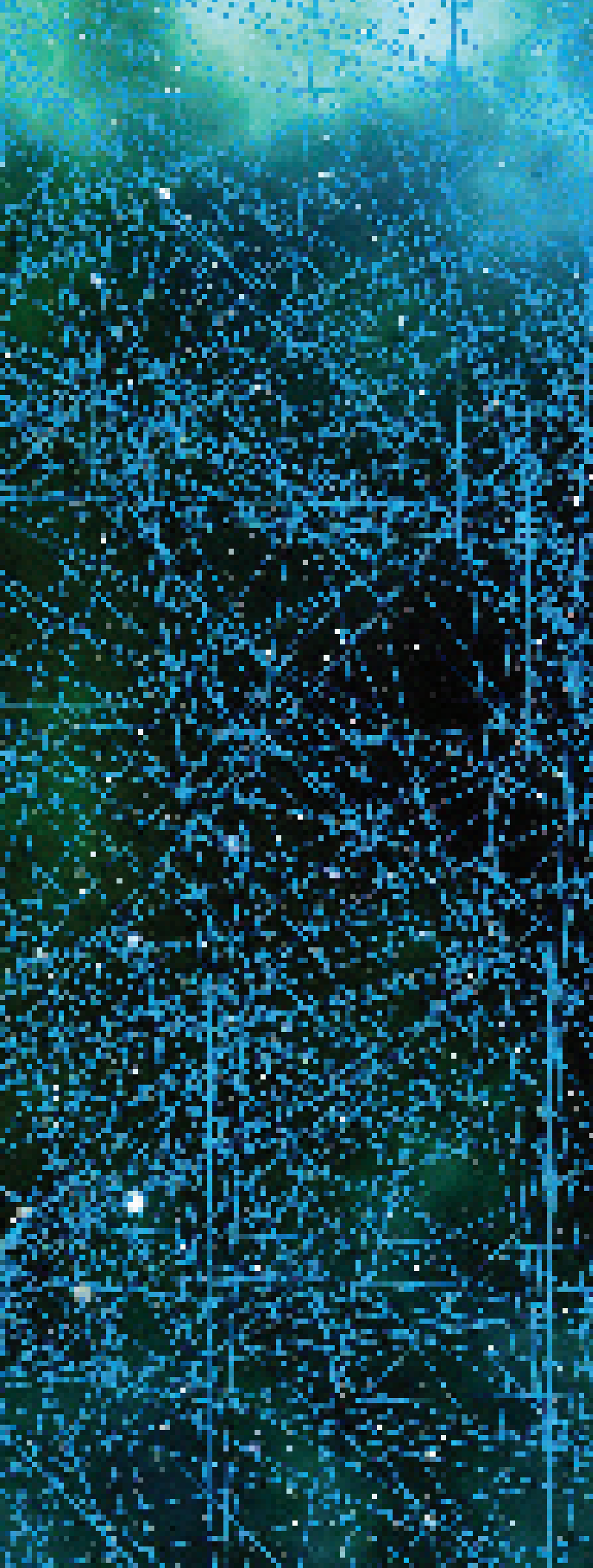
Mid- to executive-level management.

Length

7 hours

Content:

- What is artificial intelligence? How is it different from machine learning? Deep learning? Artificial general intelligence? Big data?
- What are the four patterns to look for to identify new AI use cases for your organization?
- How do AI systems fit into the key decisions in your organization?
- How can you work backwards from desired decision outcomes to actions to determine where AI fits in?
- What are the biggest mistakes that organizations make when creating, tasking, and managing AI organizations? What are the best practices?
- How should you budget for an AI project? How should it be resourced?
- What is the difference between data management for AI and data management for operations, and how can you save tremendous risk and time by understanding the distinction?
- What are the typical stages of a machine learning project?
- What are best practices and typical mistakes at each stage?
- How can you get ahead of the competition by understanding the future of AI?
- What is the difference between fully autonomous AI and human-in-the-loop AI?
- What is decision intelligence?
- What is Responsible AI/DI?



Pricing:

All 7-hour workshops cost US \$4500 for up to 10 students, and \$1200 for each increment of 5 students thereafter.

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