

MedTech Executive Programs



Blockchain Technical Foundations & Strategic Insights

In partnership with **SAMA PARTNERS GmbH**
German Leader in Digitalisation / Industry 4.0
From February **14th** to **16th** 2019

I. Trainers



Jens-Matthias Bohli is a Professor at Hochschule Mannheim. He received his Diploma and PhD degree in Computer Science from the Karlsruhe Institute for Technology in 2003 and 2007, respectively. In 2007, he joined the security research team at NEC Laboratories Europe as a Senior Researcher and worked on security for the IoT. In the academic year 2009/2010, he worked at the University of Sussex as a Lecturer, building a teaching portfolio in security. In March 2016, he joined Hochschule Mannheim. Jens-Matthias' current research interest and experience lie in efficient cryptographic protocols for a wide range of applications, such as authentication, blockchains, voting machines, and embedded systems.



Haithem Derouiche holds a degree in computer science from the Technical University of Braunschweig and an MBA from the University of Nuremberg. He is managing director of SAMA PARTNERS a consulting company for 9 years and leading consulting projects in the international DAX companies in the areas of strategy, security, digital transformation and enterprise architecture. In addition, he conducts trainings and seminars on various topics such as it-strategy, business transformation and blockchain. He is the co-founder of the German subsidiary of the ISSA: the international System Security Association.

II. Context of the seminar

The digital revolution has already begun, and blockchain technology is shaping a new landscape in numerous product and service industries such as banking, finance, supply chain, and healthcare. It is becoming increasingly clear that those who do not embrace the distributed ledger and blockchain technology will be left behind. The need of different stakeholders such as decision makers, IT developers and consultants can substantially vary from low level technical-operational issues to more strategic market entry and business development decisions. A more holistic perspective is therefore needed to better understand the working of blockchain infrastructure and its business relevance, involving a wide spectrum of questions: What drives the technology and its development? Which industries are influenced by blockchain? What are the effects of blockchain on IT infrastructure and business models? What best practices can be learned from current applications of blockchain?

III. Objectives of the seminar

- Understand distributed ledger technology and its applications.
- Learn about the role of blockchain technology in the digital transformation and its business relevance.

- Define business strategy based on blockchain.
- Gain knowledge about blockchain technology and cryptocurrencies creation process.
- Get familiar with cryptocurrencies mechanics.
- Build blockchain and smart contract-based applications.
- Explore non-financial applications of blockchain technology and best practices.

IV. Target audience



- Company executives



- IT developers / Consultants in digital transformation



- Experts in banking, finance, and business strategy

V. Content of the seminar



Day 1

Introduction to distributed ledgers and blockchain

- Centralization vs. decentralization
- Distributed consensus process
- Consensus without identity using a blockchain
- The blockchain as a vehicle for decentralization
- Introduction to cryptography & cryptocurrencies
- Mechanics of Bitcoin
- How to store and use Bitcoins



Day 2

Modern blockchains and smart contracts

- Blockchain and mining
- Smart contracts
- Programming smart contracts on Ethereum
- Applications of blockchain technology: banking, supply chain, healthcare, etc.



Day 3

Digital Transformation: Blockchain and business relevance

- Drivers of blockchain technology development
- Influence of blockchain on industries: Implications and effects on the digital business world
- Effects of blockchain on business models: Disruptive change potential of blockchain
- Recognizing and utilizing potential for your own company and business model
- Decision path: Should I consider blockchain technology for my business model?
- Blockchain best practices
- The blockchain ecosystem

VI. Participation Fees & Registration

- **1800 TND HT for Tunisian participants (refundable by TFP)**
- **700 € for international participants**

These fees are to be paid at the start of the program. They cover participation to the program, pedagogical material, lunches, and coffee breaks.

Registration form is available online at: goo.gl/WUQVpb

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