REGINNA 4.0 First Summer School: Deep Tech training with impact on entrepreneurship and innovation

Report of Contributions

https://indico.ung.si/e/14

Contribution ID: **1** Type: **not specified**

Introduction to the Summer School programme

Session Classification: Industry 4.0

Contribution ID: **2** Type: **not specified**

Digital Transformation Journey

Monday, 3 July 2023 09:15 (1h 30m)

The course allows to understand the meaning of a digital transformation. How to identify the needs of the enterprise? how to design a digital project? In the second part of the lecture there will be provided examples of digital transformation that has been realized.

• Introduction to industry 4.0
• How to guide a Digital Transformation Project
• Current examples of Digital Transformation Projects

objectives:

1 Comprehensive overview about digital transformation.
2.Knowledge acquisition about enabling technologies and digital use cases
3.Basic knowledge and methods about how to support a successful digital transformation inside the organizations

outcomes:

1. To know the basic knowledge about digital transformation
2. To know about digital assessments
3. To know enabling technologies
4. To build a classification about tools and methods to guide digital transformation.

Primary author: FORNASIER, Andrea (POLO)

Presenter: FORNASIER, Andrea (POLO)

Session Classification: Industry 4.0

Contribution ID: **3** Type: **not specified**

Data Modeling: From Relational Databases to Big Data - part 1

Monday, 3 July 2023 11:00 (1h 15m)

Database management systems are a fundamental tool to store and analyze data in countless domains, empowering business intelligence as well as descriptive, predictive, and prescriptive analytics tasks. Choosing the right database technology is not trivial since, due to the intrinsic heterogeneous nature of information, different approaches must be followed to handle structured, semi-structured, and unstructured data, and the so called Big Data. This gives rise to complex information systems, in which data regarding a specific object may be fragmented and possibly replicated into several repositories, both relational as well as NoSQL in their nature. Data warehousing allows to bring order into such an information jungle, by means of employing a single, enterprise-wide storage, which should be continuously fed by data streams, engineered to perform ETL (Extract, Transform, Load) tasks. The goal of the lecture is that of covering, from a general and intuitive point of view, all the main aspects pertaining to the previously described issues.

Primary author: BRUNELLO, Andrea (University of Udine)

Presenter: BRUNELLO, Andrea (University of Udine)

Session Classification: Industry 4.0

Contribution ID: **4** Type: **not specified**

Data Modeling: From Relational Databases to Big Data - part 2

Monday, 3 July 2023 13:15 (2 hours)

Database management systems are a fundamental tool to store and analyze data in countless domains, empowering business intelligence as well as descriptive, predictive, and prescriptive analytics tasks. Choosing the right database technology is not trivial since, due to the intrinsic heterogeneous nature of information, different approaches must be followed to handle structured, semi-structured, and unstructured data, and the so called Big Data. This gives rise to complex information systems, in which data regarding a specific object may be fragmented and possibly replicated into several repositories, both relational as well as NoSQL in their nature. Data warehousing allows to bring order into such an information jungle, by means of employing a single, enterprise-wide storage, which should be continuously fed by data streams, engineered to perform ETL (Extract, Transform, Load) tasks. The goal of the lecture is that of covering, from a general and intuitive point of view, all the main aspects pertaining to the previously described issues.

Primary author: BRUNELLO, Andrea

Presenter: BRUNELLO, Andrea

Session Classification: Industry 4.0

Contribution ID: **5** Type: **not specified**

Introduction to Machine Learning

Tuesday, 4 July 2023 09:00 (1h 30m)

In this course we will cover the basic concepts about machine learning with a theoretical and practical approach. Specifically, we will learn the concept of Machine Learning and Supervised Learning, a couple of classifiers (kNN and SVM) and how to evaluate them. Finally, we will learn how to create them in Python.

Objectives

1. Comprehensive overview about machine learning basic concepts.
2. Basic knowledge about how to evaluate classifiers' performance and how to interpret its results
3. Learn to build a simple classification experiment

Outcomes

1. To know the basic knowledge about machine learning and supervised learning
2. To know about two basic supervised learning classifiers: kNN and SVM
3. To evaluate and interpret classification models' results.
4. To know the Google colab environment for computation in the cloud
5. To build a simple classification experiment and assess its results.

Primary authors: FIDALGO FERNÁNDEZ, Eduardo; GONZÁLEZ-CASTRO, Victor (University of León)

Presenters: FIDALGO FERNÁNDEZ, Eduardo; GONZÁLEZ-CASTRO, Victor (University of León)

Session Classification: Industry 4.0

Contribution ID: **6** Type: **not specified**

Computer Vision and Machine Learning in Industry 4.0: Use case

Tuesday, 4 July 2023 10:45 (1h 30m)

In this course we will cover the basic concepts of Neural Networks and Convolutional Neural Networks with an application to the classification of inserts of a milling machine according to their wear level.

Objectives

1. Know the concept of convolution and its applications in image processing.
2. Identify the building blocks of a Neural Network and a Convolutional Neural Network.
3. Learn to use pretrained CNNs to get descriptors to classify the level of wear of milling inserts 3.1. Get started with non-handcrafted descriptors 3.2. Application to Industry 4.0 problem

Outcomes

1. To know the basics about image convolution
2. To learn what a -neural Network is and its main concepts (neuron, layer, etc.).
3. To define the working of a Convolutional Neural Network and its basic building blocks
4. To classify inserts as having high or low wear using features extracted using pre-trained CNNs

Primary authors: FIDALGO FERNÁNDEZ (University of Leon); FERNÁNDEZ ROBLES, Laura (Universidad de León)

Presenters: FIDALGO FERNÁNDEZ (University of Leon); FERNÁNDEZ ROBLES, Laura (Universidad de León)

Session Classification: Industry 4.0

Contribution ID: **7** Type: **not specified**

Introduction to Industrial Cybersecurity

Tuesday, 4 July 2023 13:15 (1h 55m)

The aim of the lecture is to raise awareness about the relevance of cybersecurity in the context of Industry 4.0 and to get a glimpse of the most common threats and vulnerabilities in industrial control systems as well as the countermeasures available to mitigate risks.

Objectives

1. Awareness of cybersecurity risks in industrial control systems and critical infrastructures
2. Overview of the features of industrial control systems in contrast to traditional information systems
3. Overview of threats, vulnerabilities and countermeasures in industrial control systems

Outcomes

1. Understand the relevance of cybersecurity in industrial control systems and critical infrastructures
2. Understand the main threats and vulnerabilities in industrial control systems in contrast to traditional information systems
3. Acquire a high-level view of the procedures and measures available to mitigate cybersecurity risks.

Primary author: A. PRADA, Miguel (University of Leon)

Presenter: A. PRADA, Miguel (University of Leon)

Session Classification: Industry 4.0

Contribution ID: **8** Type: **not specified**

Introduction to data in tourism

Wednesday, 5 July 2023 09:00 (1h 30m)

- What are the sources and types of data in tourism?
- How can data be analysed and visualized for tourism purposes?
- What are the benefits and challenges of using data in tourism?
- What are some examples of data applications in tourism

Primary author: KOBAL, Vesna (Arctur)

Presenter: KOBAL, Vesna (Arctur)

Session Classification: Industry 4.0

Contribution ID: **9** Type: **not specified**

Digital interpretation of cultural heritage

Wednesday, 5 July 2023 10:45 (1h 30m)

- Digital interpretation of cultural heritage and its potentials
- How a 3D model is made
- Making a simple 3D model with a mobile phone
- New media for 3D digital interpretation – from AR, to VR, immersive technologies and metaverse.
- Narrating a heritage story with digital technologies

Primary author: STRAVS, Matevž (Arctur)

Presenter: STRAVS, Matevž (Arctur)

Session Classification: Industry 4.0

Contribution ID: **10** Type: **not specified**

A case study of the application of Tourism 4.0 technology in Odesa, Ukraine

Wednesday, 5 July 2023 13:15 (1h 30m)

- Overview of Odesa City as a tourist destination
- Organisation of tourism in Odesa
- Problems of tourism development in Odesa
- Application of Tourism 4.0 models to address these problems
- Results and discussion of the findings

Primary author: GORIUP, Paul (NGO Agricola)

Presenter: GORIUP, Paul (NGO Agricola)

Session Classification: Industry 4.0

Contribution ID: **11** Type: **not specified**

Nanomaterials - Introduction

Thursday, 6 July 2023 09:00 (1h 30m)

Nanotechnology and nanomaterials.
Classifications of nanomaterials, their properties.
Historical overview of nanomaterials.
Reasons for special properties of nanoscale materials.
Classical and quantum size effects.
Basic concepts of quantum physics.
The energy of an electron in an atom.
Harmonic oscillator: transition from classical to quantum.
Wave-particle duality. Uncertainty principle.
Condensed matter physics. Electrons in crystals.
Quantum dots and their applications.
Quantum tunneling.
Application of nanomaterials.

Objectives:

Overview of nanomaterials (history and properties).
Modern applications of nanomaterials.
Basic concepts of quantum physics.

Outcomes:

Participants will gain general knowledge about nanomaterials and their properties.
Participants will be able to identify different types of nanomaterials.
Participants will distinguish between classical and quantum size effects.
Participants will understand the basic concept of quantum mechanics.

Primary author: TUROVSKA, Liliia (Vasyl Stefanyk Precarpathian National University)

Presenter: TUROVSKA, Liliia (Vasyl Stefanyk Precarpathian National University)

Session Classification: Nanotechnology

Contribution ID: **12** Type: **not specified**

Semiconductor nanomaterials in renewable energy applications

Thursday, 6 July 2023 13:15 (1h 30m)

- Development of thermoelectricity and photovoltaics. Transition to nanoscale elements.
- Methods of obtaining semiconductor nano-size materials.
- Peculiarities of the structure and properties of semiconductor nanomaterials.
- Practical application of nanomaterials.
- Characterization of nanomaterials.

Primary author: NAIDYCH, Bohdana (Vasyl Stefanyk Precarpathian National University)

Presenter: NAIDYCH, Bohdana (Vasyl Stefanyk Precarpathian National University)

Session Classification: Nanotechnology

Contribution ID: **13** Type: **not specified**

Graphene - Magic of Carbon

Thursday, 6 July 2023 10:45 (1h 30m)

Carbon. Allotropes.
Electronic structure of carbon.
Diamond. Properties.
Graphite. Properties.
Graphene. Unique properties. Crystal structure. Production.
Obtaining graphene oxide.
Carbon nanotubes. Properties. Synthesis.
Fullerenes. Properties. Application. Synthesis.

Objectives

Review of the main properties of allotropic modifications of carbon.
Graphene: unique properties and applications.
Methods for obtaining graphene oxide and reduced graphene oxide.
Overview of methods for experimental study of graphene materials.

Outcomes

Participants will gain general knowledge about carbon materials.
Participants will distinguish between different allotropic modifications of carbon.
Participants will understand the various approaches to obtaining GO and rGO.
Participants will be able to distinguish the results of an experimental study of graphene materials.

Primary author: BOICHUK, Volodymyra (Vasyl Stefanyk Precarpathian National University)

Presenter: BOICHUK, Volodymyra (Vasyl Stefanyk Precarpathian National University)

Session Classification: Nanotechnology

Contribution ID: **14** Type: **not specified**

Graphene based nanoelectronic - a practical approach

Friday, 7 July 2023 09:00 (1h 30m)

The field of nanoelectronics has experienced a significant shift with the emergence of graphene, a two-dimensional material with remarkable electronic properties. This practical demonstration will serve to present a fabrication process of a graphene-based transistor. The transistor will be prepared during the lecture in the clean room of the Laboratory of Organic Matter Physics of the University of Nova Gorica. We will delve into the fabrication techniques, with a hand-on lecture on the technique of micromechanical exfoliation, the recognition of few layer graphene by the optical microscope and fabrication of a graphene-based transistor by means of laser lithography.

Objectives

- Review of state-of-the-art in graphene-based electronics.
- Mechanical exfoliation of graphene flakes using a scotch-tape method
- Optical microscopy of mechanically exfoliated graphene flakes
- Presentation of laser lithography process to prepare graphene-based transistor
- Electrical characterization of graphene-based transistor

Outcomes

- Participants learn about mechanical exfoliation of two-dimensional materials
- Participants can identify graphene flakes under the microscope.
- Participants learn and observe laser lithography process to prepare graphene-based transistor.
- Participants understand the role of different layers of graphene-based transistor.
- Participants understand electrical characteristics of graphene-based transistor

Primary authors: TOMSIC, Erika (University of Nova Gorica); PAVLICA, Egon (UNG)

Presenters: TOMSIC, Erika (University of Nova Gorica); PAVLICA, Egon (UNG)

Session Classification: Nanotechnology

Contribution ID: **15** Type: **not specified**

Introduction to Quantum Computing

Friday, 7 July 2023 10:45 (45 minutes)

Participants will learn about quantum phenomena, which govern nature. These quantum phenomena will be explained through photon's interference, which will be introduced by double-slit and double-beam splitter experiments. Next, classical computation will be compared to quantum computation. Quantum bit will be introduced. Participants will learn through an example of the quantum algorithm, presented in real quantum computer and in a quantum computer simulator.

objectives:

1. Learn about quantum nature of photons and possibility of application in quantum computing
2. Learn about the definition of quantum bit (qubit)
3. See a tutorial on quantum programming in quantum computer or quantum computer simulator

outcomes:

1. Understand the difference between classical and quantum computing
2. Understanding what is qubit
3. Obtain an idea of quantum computing algorithm

Primary author: PAVLICA, Egon (University of Nova Gorica)

Presenter: PAVLICA, Egon (University of Nova Gorica)

Session Classification: Nanotechnology

Contribution ID: **16** Type: **not specified**

Introduction to Deep Learning and Nanotechnology Applications

Friday, 7 July 2023 13:15 (1h 30m)

- Paradigm of AI (Current Advancements)
- How to think about neural networks (Slides)
- Images = Matrices (+ what is Convolution?)
- Building your first neural network
- Can your network identify simple images?
- Complex Network == Complex Tasks

Primary author: BHATTACHARYYA, Saptashwa (University of Nova Gorica)

Presenter: BHATTACHARYYA, Saptashwa (University of Nova Gorica)

Session Classification: Nanotechnology

Contribution ID: **17** Type: **not specified**

Entrepreneurship and start-up management

Monday, 10 July 2023 09:00 (2h 15m)

- What is an entrepreneur?
- Approaches to the start-up phase
- The lean start-up approach in action

objectives:

1. A comprehensive overview of the features of entrepreneurial activities
2. An in-depth discussion of various approaches that individuals may adopt when they start a new venture
3. An application of the lean start-up approach to a business case

outcomes:

1. Knowing the economic function of entrepreneurship
2. Knowing the strengths and weaknesses of different patterns to the start-up
3. Being able to apply the principles of the “lean start-up” methodology to an entrepreneurial idea

Primary author: LAUTO, Giancarlo (University of Udine)

Presenter: LAUTO, Giancarlo (University of Udine)

Session Classification: Entrepreneurship and Innovation

Contribution ID: **18** Type: **not specified**

Innovation as a management challenge, part 1

Monday, 10 July 2023 11:30 (45 minutes)

The lecture aims to present innovation as a major driver of competitiveness. It aims to describe different types of innovation.

Objectives

To present innovation as a source of competitive advantage

Outcomes

Basic knowledge about different types of innovation

Primary author: TABACCO, Raffaella (University of Udine)

Presenter: TABACCO, Raffaella (University of Udine)

Session Classification: Entrepreneurship and Innovation

Contribution ID: **19** Type: **not specified**

Innovation as a management challenge, part 2

Monday, 10 July 2023 13:15 (1h 30m)

The lecture aims to present some of the main activities a company should manage in order to create a successful innovation.

Objectives

To know different phases of a typical innovation process

Outcomes

Basic knowledge about how to manage an innovation process.

Primary author: TABACCO, Raffaella

Presenter: TABACCO, Raffaella

Session Classification: Entrepreneurship and Innovation

Contribution ID: **20** Type: **not specified**

Business Model Canvas an value proposition for university startups

Tuesday, 11 July 2023 09:00 (1h 30m)

Business model is a conceptual description of the method of value creation, — economic (revenue, profit), social (image), etc. It is a description of how the company will make money. It shows what needs are to be done to grow a business, the resources it needs, and how to put it into a single mechanism.

• What is a business model, why is it needed
• Types of business models
• Overview of Lean Canvas components (+ Business model canvas)
• Consideration of an example. Elomia startup
• Building your own Business model canvas
• Value proposition canvas (+Canvas)
• Building your own value proposition canvas

objectives:

• What is a business model, why is it needed
• Types of business models
• Overview of Lean Canvas components (+ Business model canvas)
• Consideration of an example. Elomia startup
• Building your own Business model canvas
• Value proposition canvas (+Canvas)
• Building your own value proposition canvas

outcomes:

1. Teach students how to use the Canvas business model
2. Consider examples of business models of well-known startups
3. Record problem segments and solutions
4. Students can fill in the value proposition canvas

Primary author: TOMASHEVSKA, Antonina (Vasyl Stefanyk Precarpathian National University)

Presenter: TOMASHEVSKA, Antonina (Vasyl Stefanyk Precarpathian National University)

Session Classification: Entrepreneurship and Innovation

Contribution ID: **21** Type: **not specified**

Digital technologies for the development of entrepreneurship and startups

Tuesday, 11 July 2023 10:45 (1h 30m)

While studying this lecture, students will learn about digital technologies for the development of entrepreneurship and startups and search resources for data analysis. Listeners will learn how to use Google Public Data Explorer, Google Trends, Google Market Finder, Google Sites, Google Analytics, Platforms and services for running projects (startups).
Project management software can help businesses of all sizes run smoothly. Whether you're an individual or small business looking to keep track of a few projects, a massive corporation with a project portfolio to match, or anything in between, you can find cloud-based project management tools designed with you in mind.
A common tool for project management is Trello. Based around the kanban card-based management system, Trello's simple interface and generous free tier makes it the ideal place for individuals and small teams to get started with basic project management.

objectives:

A comprehensive overview of Digital technologies for the development of entrepreneurship and startups (Google Tools). Learn to work with search resources for data analysis; Master Google Public Data Explorer tools in the process of managing startups; Learn to work with Google Trends tools; Learn how to work with Google Market Finder; Learn to work with Google Sites; Introduce students to Google Analytics; Familiarize with platforms and services for running projects (startups)

outcomes:

Familiarity with digital technologies, which are built on the basis of artificial intelligence, help to develop entrepreneurship and startups. Students will learn to use the tools of digital-ization of entrepreneurship and startups, such as Google Public Data Explorer, Google Trends, Google Market Finder, Google Sites, Google Analytics, Trallo.

Primary author: PIATNYCHUK, Iryina (Vasyl Stefanyk Precarpathian National University)

Presenter: PIATNYCHUK, Iryina (Vasyl Stefanyk Precarpathian National University)

Session Classification: Entrepreneurship and Innovation

Contribution ID: **22** Type: **not specified**

Innovation on the field - real cases

Tuesday, 11 July 2023 13:15 (1h 30m)

1. Art & Design Thinking - introduction
2. Innovation management on DeepTech in SMEs and social enterprises
3. Deep tech innovation cases in Slovenia.
4. Deep Tech innovation cases in big companies.
5. Building your own first DeepTech innovation case.

Objectives:

1. A comprehensive overview of Art & Design Thinking
2. Hands on sessions for getting started with DeepTech innovation

Outcomes:

1. Roadmap from idea to realization of innovation
2. Students will be able to build a simple innovation from new technologies

Primary author: MOKOREL, Simon

Presenter: MOKOREL, Simon

Session Classification: Entrepreneurship and Innovation

Contribution ID: **23** Type: **not specified**

Business strategies in high-innovation potential areas (Nanotechnology, Industry 4.0, Artificial intelligence)

Wednesday, 12 July 2023 09:00 (3 hours)

This course aims to equip students with knowledge and skills in business strategy development and management process of its implementation in high-innovation potential areas (Nanotechnology, Industry 4.0, Artificial intelligence). This course focuses on strategic analysis, strategic planning, developing and implementing strategies.

objectives:

1. A comprehensive overview of business strategies in high-innovation potential areas (Nanotechnology, Industry 4.0, Artificial intelligence)
2. A comprehensive overview of key methods in business strategic analysis in high-innovation potential areas
3. Practical skills for business strategic analysis in high-innovation potential areas
4. Practical skills for formulating the vision, mission, objectives and road map in startups in high-innovation potential areas
5. Practical skills for building a business model canvas for startups in high-innovation potential areas

outcomes:

1. Understanding the importance of business planning in the process of creating startups
2. Students will be able to perform the business strategic analysis in high-innovation potential areas.
3. Students will be able to formulate the vision, mission, objectives and road map in startups in high-innovation potential areas
4. Students will be able to build a business model canvas for startups in high-innovation potential areas.
5. Mini-Internship to get started with business strategic planning in startups in Nanotechnology, Industry 4.0, Artificial intelligence

Primary author: YAKUBIV, Valentina

Co-author: MOKOREL, Simon (RRA)

Presenter: YAKUBIV, Valentina

Session Classification: Entrepreneurship and Innovation

Contribution ID: **24** Type: **not specified**

Business strategies in high-innovation potential areas - Team Work

Wednesday, 12 July 2023 13:00 (2 hours)

This is second part of the course, which starts at 9:00

Primary author: MOKOREL, Simon (RRA-SP)

Presenter: MOKOREL, Simon (RRA-SP)

Session Classification: Entrepreneurship and Innovation

Contribution ID: **25** Type: **not specified**

Presentation of RIS Internship Programme

Thursday, 13 July 2023 10:00 (1 hour)

RIS Internship programme

The RIS (Regional Innovation Scheme) Internship project is based on the successful ADRIA Internship1 programme, run by the Regional Centre ADRIA for three years for the benefit of the West Balkan countries. Regional challenges to internship implementation were identified as the lack of structured support for students, host organisations and Public Higher Education Institutions (HEI) and uncertain funding opportunities, which resulted in the lack of cooperation between businesses and academia and professional opportunities for students. This project will address the mentioned challenges by introducing structured internship mobilities for the benefit of the raw materials students and the organisations of the ESEE region. Establishing professional collaboration between educational institutions and the industry will help build more market-compliant educational programmes in the future. Besides encouraging international mobility, this project will also facilitate the employment of RM graduates in the local industry and thus reduce the impact of the "brain drain" in the ESEE region.
The RIS Internship programme runs as an approved EIT RM KAVA project from the 1st of January 2022 until the end of 2024.

Presentation topics:

RIS Internship Programme presentation
An online matchmaking platform for internship implementation
RIS Internship Benchmarking results
Current programme achievements

Objectives

The lecture‘s objective is to familiarize the students with existing internship opportunities in the RIS region, eligibility criteria, funding opportunities, the number, and type of hosting organisations/open positions for internship implementation, as well as the very process of internship implementation. The call for students is open until 10th November 2023, and in the next year, the call will be opened again from 1st February to 31st October 2024.

Outcomes

Students will get introduced to the overall sustainable and structured RIS Internship Programme for East European RIS and EIT labelled raw materials students, as well as the EIT Raw Materials Strategic Agenda (2021-2027) – main objectives.

Students will gain additional knowledge on how to increase their business/entrepreneurship skills in the scope of programmes‘ „Train-the-trainer“ and „Train-the-trainee“ activities

Primary authors: KORET, Kristina; BOROJEVIĆ ŠOŠTARIĆ, Sibila

Presenters: KORET, Kristina; BOROJEVIĆ ŠOŠTARIĆ, Sibila

Session Classification: Independent study

Contribution ID: **26** Type: **not specified**

Networking and independent study

Thursday, 13 July 2023 13:15 (1h 45m)

Session Classification: Independent study

Contribution ID: **27** Type: **not specified**

Networking and independent study

Friday, 14 July 2023 09:00 (3h 15m)

Session Classification: Independent study

Contribution ID: **28** Type: **not specified**

Networking and independent study + Conclusion

Friday, 14 July 2023 13:15 (1h 45m)

Session Classification: Independent study

Contribution ID: **29** Type: **not specified**

Visit QIector - Future Factory Software developer

Saturday, 8 July 2023 10:00 (4 hours)

Field trip to QLECTOR company. QLECTOR is developing artificial intelligence based solutions for manufacturing, logistics and other industries powered by QLECTOR LEAP AI Platform. Participants will see real business solutions on the use of AI in manufacturing, logistics and other industries.

Primary author: URBANČIČ, Jurij (Laboratory of Organic Matter Physics)

Session Classification: Industry 4.0

Contribution ID: **30** Type: **not specified**

Using electron spins for implementing qubits

Friday, 7 July 2023 11:30 (45 minutes)

In the last 25 years there has been an intense investigation on spin qubits defined in semiconductor nanostructures. In this seminar, we will illustrate the physical requirements for these implementations, and outline the recent progress in the field and the remaining challenges. The seminar will be concluded by a brief overview on the alternative quantum computing platforms.

Presenter: TROIANI, Filippo

Session Classification: Nanotechnology

Contribution ID: **31** Type: **not specified**

Networking and independent study

Thursday, 13 July 2023 09:00 (1 hour)

Session Classification: Independent study

Contribution ID: **32** Type: **not specified**

Networking and independent study

Thursday, 13 July 2023 11:00 (1h 15m)

Session Classification: Independent study