



**UNIVERSITÀ  
DEGLI STUDI  
DI UDINE**

**hic sunt futura**

Dip. di Scienze Matematiche,  
Informatiche e Fisiche

**CORSO DI LAUREA MAGISTRALE  
LM18  
ARTIFICIAL INTELLIGENCE &  
CYBERSECURITY**

# Computer Science @ UDINE

- Computer Science courses are offered by Udine since 1979/1980 (one of the oldest in Italy)
- <https://www.dmif.uniud.it/2019/10/40-anni-di-informatica-a-udine/>
- LinkedIn Alumni Group  
<https://www.linkedin.com/groups/8752557/>



# NATIONAL POSITION



**EDUCATION AROUND**  
Dentro la scuola e l'università, in Italia e nel mondo

Q se

## EA RANKING 2021: LAUREE MAGISTRALI IN INFORMATICA

Classifica	Università	Punteggio	Esperienze all'estero	Tirocini esterni	Esperienza studenti
1	Udine	73,3	22,9%	25,7%	56,2
2	Milano Bicocca	71,9	21,2%	18,2%	67,6
3	Pisa	70,7	22,8%	29,9%	2,7
4	Trento	63,0	40,6%	37,7%	89,1
5	Milano	54,9	12,2%	16,4%	57,4
6	Bologna	53,5	14,3%	16,3%	10,5
7	Salerno	52,1	13,1%	8,3%	85,0
8	Camerino	36,3	40,0%	8,0%	98,8
9	L'Aquila	24,5	14,3%	9,5%	88,3
10	Roma Sapienza	22,7	12,0%	12,0%	25,8

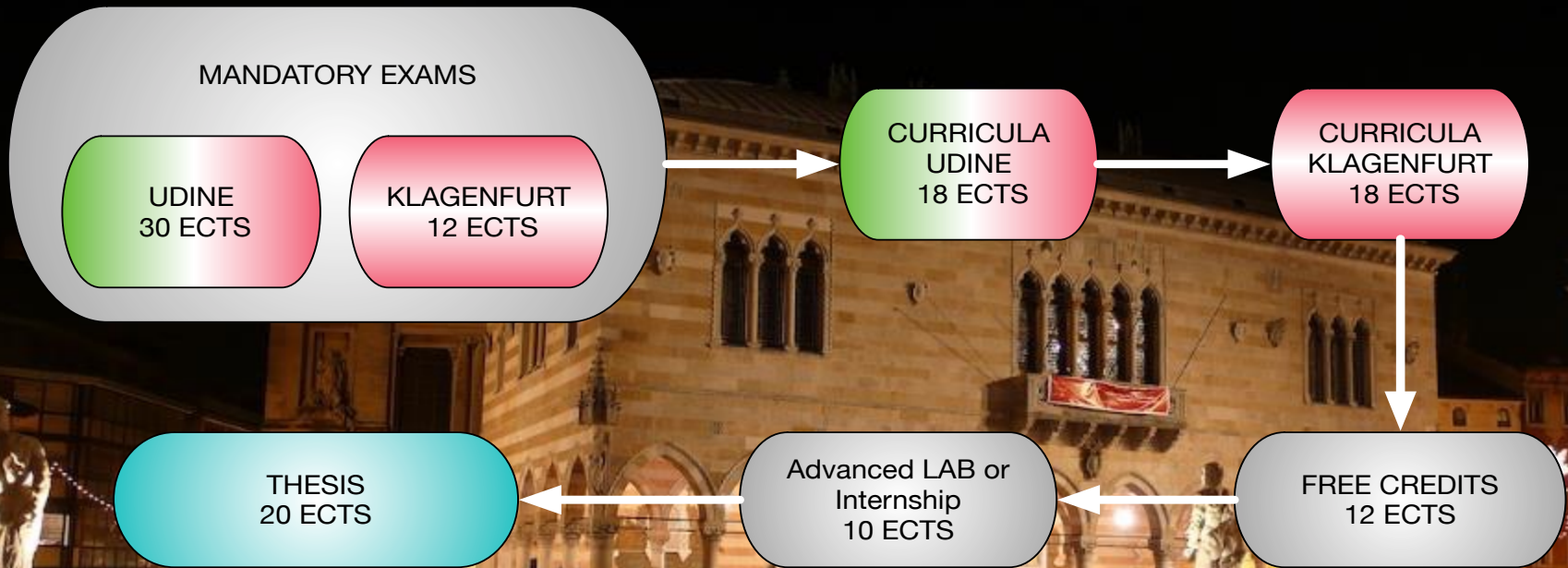
# ARTIFICIAL INTELLIGENCE & CYBERSECURITY

# Certified by ENISA (and by GRIN)



The screenshot shows the ENISA website interface. At the top, there is a navigation bar with the ENISA logo, the European Union flag, and the text 'EUROPEAN UNION AGENCY FOR CYBERSECURITY'. To the right, there are menu items: 'COVID19', 'TOPICS', 'NEWS', and 'PUBLICATIO'. Below the navigation bar, there is a breadcrumb trail: 'Home > Topics > Cybersecurity Education > CYBERHEAD - Cybersecurity Higher Education Database > List of selected courses'. The main content area displays '2 Education courses found for these filters'. The first course is 'Alpen-Adria University Klagenfurt - Artificial Intelligence and Cybersecurity', located in 'Klagenfurt, Austria'. The second course is 'University of Udine - Artificial Intelligence & Cybersecurity', located in 'UDINE, Italy'. Each course entry includes a 'Master Degree' badge and a 'See More' button.

# COURSE ARCHITECTURE



Udine and Klagenfurt have a (joint) master degree in Computer Science since 2012

# MANDATORY EXAMS (42 ECTS)

## IN UDINE

- ⦿ DEEP LEARNING 6
- ⦿ COMPLEXITY AND INFORMATION THEORY 6
- ⦿ AUTOMATED REASONING 6
- ⦿ VERIFICATION AND VALIDATION TECHNIQUES IN AI AND CYBERSECURITY 12

## IN KLAGENFURT

- ⦿ FOUNDATIONS OF CYBERSECURITY AND ETHICS 12

# Select 18 ECTS in UDINE from

- ⦿ ADVANCED ALGORITHMS 6
- ⦿ ADVANCED DATA SCIENCE 9
- ⦿ ADVANCED DATABASE SYSTEMS FOR BIG DATA 6
- ⦿ AUDITORY AND TACTILE INTERACTIONS 6
- ⦿ COMPUTER NETWORK SECURITY 6
- ⦿ COMPUTER VISION 9
- ⦿ DISTRIBUTED SYSTEMS 9
- ⦿ FORMAL METHODS 6
- ⦿ FOUNDATIONS OF NEURAL NETWORKS 6
- ⦿ INFORMATION RETRIEVAL 6
- ⦿ INTERACTIVE 3D GRAPHICS 6
- ⦿ QUANTUM COMPUTING AND COMMUNICATION 6
- ⦿ RECOMMENDER SYSTEMS 6
- ⦿ VIDEO GAME PROGRAMMING 6
- ⦿ VIRTUAL REALITY AND PERSUASIVE USER EXPERIENCE 9

(remember that you have 12 ECTS of free choice)



# Select 18 ECTS in Klagenfurt from

- Responsible Engineering of AI and Cybersecurity Systems 6
- Advanced Topics in AI - I 12
- Advanced Topics in Cybersecurity - I 12
- Advanced Topics in AI - II 6
- Advanced Topics in Cybersecurity - II 6

(remember that you have 12 ECTS of free choice)

# 12 CFU of free choice

- Can be chosen among other exams in Udine
- Or in Klagenfurt
- Satisfying some (typical constraints)

# WHEN IN KLAGENFURT?

- Typically, the first semester of the second year
- There are 30 positions available, 10 of them with an Erasmus grant
- Distance from Udine is 150 km (2 hours by train)
- You should register from 30 (minimum) to 60 (maximum) ECTS in Klagenfurt
- Thesis **should** have one supervisor in both the Universities

# DOPO LE NOSTRE LAUREE?

- ◎ **Le aziende vi rincorrono**
- ◎ Se volete, potete diventare *ingegneri* superando l'esame di stato abilitante
- ◎ **Noi offriamo il dottorato di ricerca in Informatica e Intelligenza Artificiale (sin dal I ciclo in Italia)**
- ◎ **Molti nostri ex studenti stanno frequentando dottorati di ricerca anche in altre sedi (Oxford, Leuven, Parigi, NMSU, Klagenfurt...)**

# Per AI&Cybersecurity

- ⦿ The number of positions is limited: 30 in total, 10 (maybe more) of them with an Erasmus grant
- ⦿ Other (industrial) grants are possible
- ⦿ If you are interested in the double degree, please contact **as soon as possible**
  - Prof. Angelo Montanari
  - Prof. Agostino Dovier
  - Dr.ssa Claudia Longhetto
  - Email: [didattica.dmif@uniud.it](mailto:didattica.dmif@uniud.it)