



50 years of  
University  
of Split

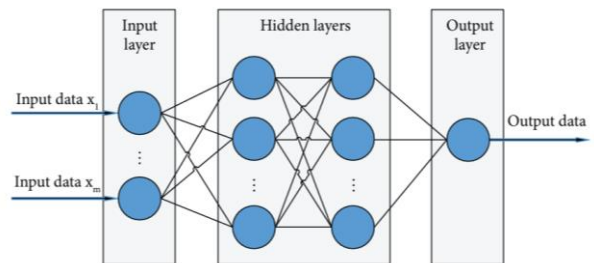
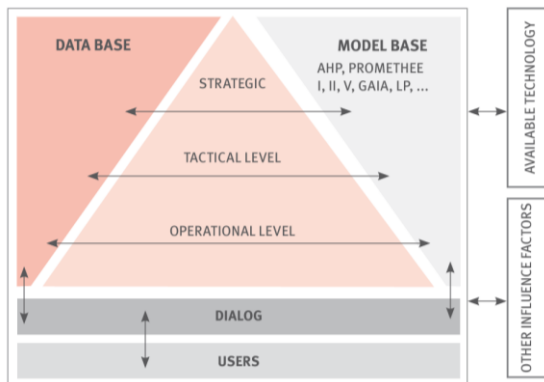
## INTERNATIONAL SPLIT SUMMER SCHOOL 2024

### COURSE: MODELLING SUPPORT TO MANAGERIAL DECISION MAKING

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#### Main topics

- Management, managers and decision-making
- Decision support and Decision Support Systems/Concepts
- DSS & Multi-criteria analysis and multi-criteria methods (AHP, TOPSIS and PROMETHEE)
- DSS & Expert systems and artificial intelligence – FL and ANN

#### Programme structure

- 5-day course
- Lecture notes for each of the modules will be distributed to the students

#### Important dates

Course dates: 02/09/2024 – 06/09/2024

Deadline for application: 08/07/2024

Confirmation of the course: 10/07/2024

Payment due by: 18/08/2024

**Price of the course:** 300 € (tax included)

## **Program plan**

### **Day 1**

- Management, managers and decision-making (4h)
- The process of managerial decision-making and decision support (2h)

### **Day 2**

- Decision support and Decision Support Systems/Concepts (2h)
- The logic and basic elements and functions of decision support systems (2h)
- Multi-criteria analysis as an approach to support complex decision-making (2h)

### **Day 3**

- DSS & Multi-criteria analysis and multi-criteria methods (AHP, TOPSIS and PROMETHEE) with examples regarding civil engineering issues (2h)
- Individual work/exercise (4h)

### **Day 4**

- DSS & Expert systems and artificial intelligence – FL and ANN with examples regarding civil engineering issues (2h)
- Individual work/exercise (4h)

### **Day 5**

- Individual work/exercise (4h)
- Seminar presentation (2h)

## **Lectures**

Ph. D. Nikša Jajac M. Civ. Eng,  
Professor at the University of Split,  
Faculty of Civil Engineering, Architecture  
and Geodesy, Department of  
Construction Management and  
Economics, Split, Croatia.

Ph. D. Ivan Marović M. Civ. Eng,  
Associate professor at the University of  
Rijeka, Faculty of Civil Engineering,  
Department of Organization and  
Construction Technology, Rijeka,  
Croatia.

Ph. D. Lana Lovrenčić Butković M. Ec.,  
Associate professor at the University of  
Zagreb, Faculty of Civil Engineering,  
Department of Organization, Technology  
and Management, Zagreb, Croatia.

Ph. D. Katarina Rogulj M. Civ. Eng,  
Assistant professor at the University of  
Split, Faculty of Civil Engineering,  
Architecture and Geodesy, Department  
of Construction Management and  
Economics, Split, Croatia.