

# Informatics Europe

The Voice of Informatics Research  
and Education in Europe

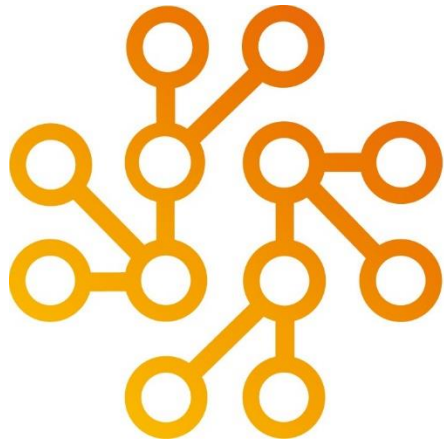
*26 October 2021*

# Agenda

## Informatics Europe

**1. Who we are**

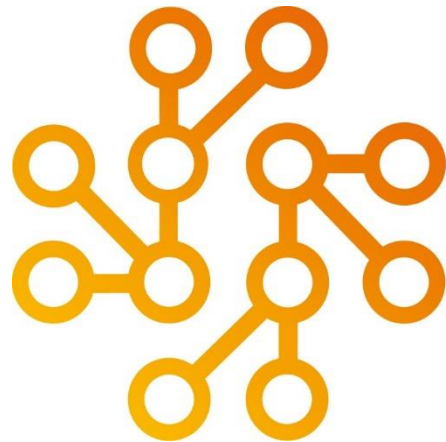
**2. What we do**



INFORMATICS  
EUROPE

is

**YOU**



INFORMATICS  
EUROPE

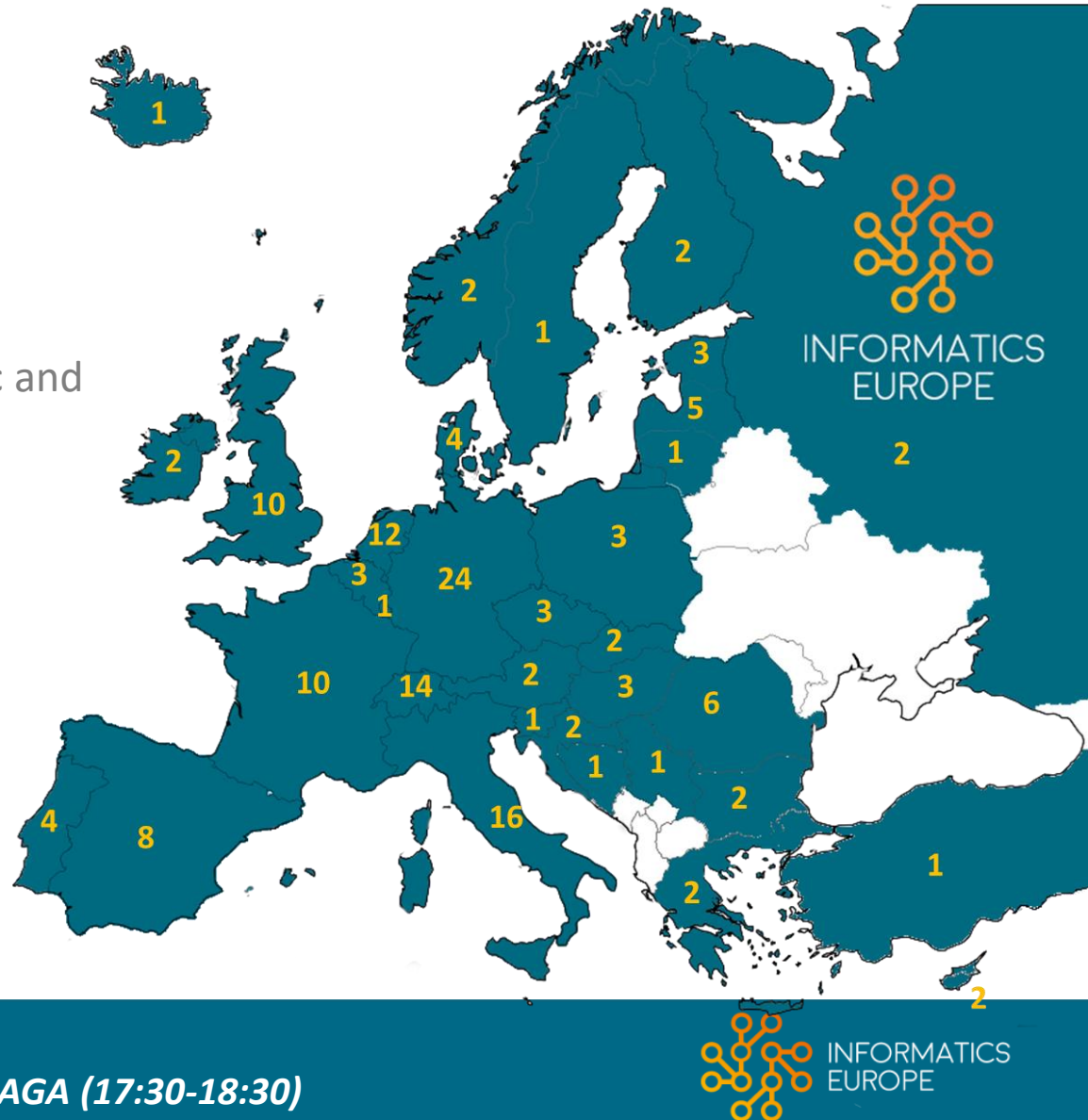
**The voice of the  
European Computer Science  
community**

# Our Members

**160 Institutions**

Departments, Faculties,  
Schools, Institutes &  
Research Labs from the public and  
private sector

**34 Countries!**



*As of October 2021.  
New members will be presented during AGA (17:30-18:30)*



# Our Board

Scientific volunteers at the service of the Informatics community



**Enrico Nardelli**  
Università di  
Roma  
'Tor Vergata'  
**IE President**



**Jean-Marc  
Jézéquel**  
IRISA/University of  
Rennes  
**IE Vice President  
WG Policy  
recommendations**



**Elisabetta Di  
Nitto**  
Politecnico di  
Milano  
**IE Vice President  
Social Impact**



**Gregor Engels**  
Paderborn  
University  
**IE Treasurer**



**Dick Bulterman**  
CWI/VU  
Amsterdam  
**Industry  
Relations**



**Michael E.  
Caspersen**  
IT-vest  
**Education**



**Harald Gall**  
University of  
Zurich



**Ismael Garcia-  
Varea**  
Universidad  
Castilla-La Mancha  
**Data Analysis &  
Reporting**



**Asunción  
Gómez-Pérez**  
Universidad  
Politécnica  
de Madrid



**Letizia  
Jaccheri**  
NTNU  
**Diversity**



**Kim Mens**  
Université  
catholique de  
Louvain  
**Membership**



**Viorel Negru**  
West  
University of  
Timisoara  
**Membership**



**Pekka  
Orponen**  
Aalto  
University  
**NIA relations**



**Jaak Vilo**  
University of  
Tartu



**Standa Živný**  
University of  
Oxford  
**Communications**



**Nuria Anguera**  
**IE Executive  
Director**

# Our Office

## General administration and coordination



**Nuria ANGUERA**  
Executive Director

**Responsibilities:**

- Overall strategy, operations, projects and activities
- Relations with Industry
- Membership Committee



**Wieneke EMANS**  
Executive Assistant

**Responsibilities:**

- Finances
- Membership Management
- COST Action Grant Holder Manager
- Women in Informatics Research & Education (WIRE)



**Kit Wan CHUI**  
Communication and Administration

**Responsibilities:**

- Communications
- Relations with National Informatics Associations
- Academic Empowerment (courses, Webinars, etc.)



**Svetlana TIKHONENKO**  
Web, Data & Analysis

**Responsibilities:**

- Ethics
- Data Portal
- Policy Recommendations
- Education

# Agenda

## Informatics Europe

1. Who we are

**2. What we do**



# What we do

- We represent the **public and private research community** of informatics in Europe and neighbouring countries.
- We create a strong common voice to safeguard and shape quality **research and education in informatics** in Europe.
- We promote concerted positions and act on shared priorities in the areas of **Education, Research, Knowledge Transfer and Social Impact** of informatics.

# Our goals

- Foster **quality of research and education** in Informatics.
- Promote pan-European **knowledge transfer & collaboration** between academia and industry and society, including government and public institutions.
- **Engage with society** on the nature and impact of Informatics.
- Promote **quality standards and best practices** in research, education, and knowledge transfer.

# Agenda

Informatics Europe,

1. Who we are

2. What we do – Main Working Groups

- a. **Education** – Michael Caspersen, It-vest, Denmark
- b. Social Impact
- c. Diversity
- d. Data Analysis & reporting
- e. Policy Recommendations
- f. Our Services

# Education – Our Goal

Promote and develop **informatics education** across Europe **at all school levels**, based on three pillars

- Informatics for All coalition 
- Informatics education conference
  - **ITiCSE** (Innovation and Technology in Computer Science Education) – in cooperation with ACM SIGCSE and ACM Europe
- Promoting Informatics Education Research in Informatics Departments

# Education – Some Past Achievements

**Education working group** establishment (IE and ACM Europe)

**1st report:** “Informatics Education: Europe cannot afford to miss the boat.”

**Education Award** introduced, recognizing outstanding European educational initiatives

CECE: Data collection about the Informatics Education status in Europe, summarized in the **report:** “Informatics Education in Europe: Are we all in the same boat?”

**Committee on European Computing Education (CECE)** established

**Informatics for All coalition** created by ACM, CEPIS and IE

“**Informatics for All: The strategy**” published

IE and ACM participate in a **EC panel discussion**

IE part of **Steering Committee for ITiCSE**

Submission of the **INFEDU EU COST Action proposal**

Workshops in Brussel and virtual

Position Paper for the **EC Digital Education Action Plan**

...

2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

# Education – Our 2022 Targets

- Development of an Informatics Curriculum Framework for School
- Mapping the Informatics Education Research groups in Europe
- Building a sustainable Education WG, with Informatics Europe members
  - to serve as think-tank to foster new initiatives and particular task forces

# Agenda

## Informatics Europe

1. Who we are

2. What we do - Main Working Groups

a. Education

b. Social Impact

c. **Diversity** - Letizia Jaccheri, NTNU, Norway

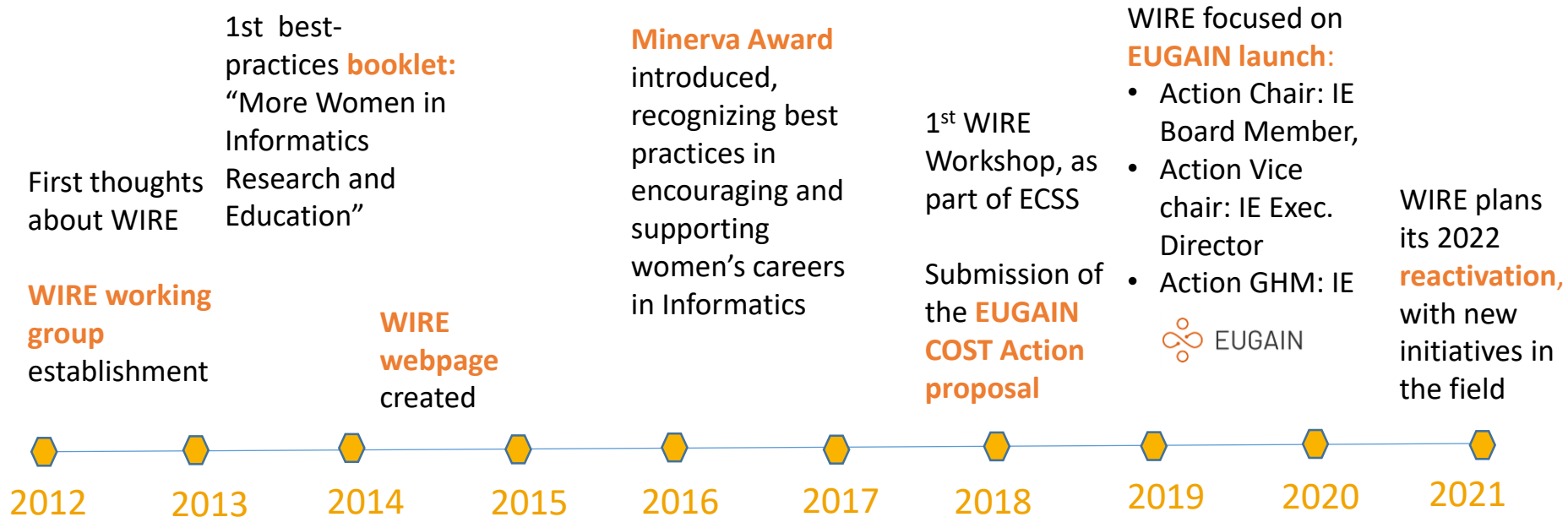
d. Data Analysis & reporting

e. Policy Recommendations

f. Our Services

# Gender Diversity – Our Achievements

## Women in Informatics Research & Education European Network For Gender Balance in Informatics



Dr. Cristina Pereira,  
Informatics Europe



Prof. Lynda Hardman,  
CWI, The Netherlands



Prof. Jane Hillston,  
University of Edinburgh



Prof. Erika Abraham,  
RWTH Aachen University



Prof. Letizia Jaccheri,  
NTNU, Norway



# EUGAIN

Bringing together different approaches and expertise in gender research, enhance scientific and practical endeavor and reach a more consolidated and robust methodology to develop validated measures.

## Working Groups

- WG1: From School to University
- WG2: From Bachelor/Master to Ph.D.
- WG3: From Ph.D. to Professor
- WG4: Cooperation with Industry and Society
- WG5: Strategy & Dissemination

## Deliverables

- Website: [www.eugain.eu](http://www.eugain.eu)
- Repository of initiatives and best practices
- Booklets with practical recommendations
- Handbook with validated measures and guidelines
- Policy recommendation documents
- Scientific publications
- Presentations



# Gender diversity 2021/22

**2021 Activities mainly** focused on successfully launching EUGAIN COST Action,

- 1<sup>st</sup> Grant Period finished with > 140 people from **37 countries**
- **Help us disseminate our activities and on-board the subject-matter experts from your institution !!**

**In 2022** Informatics Europe will

- remain EUGAIN COST Action Grant Holder
- **Launch a Diversity Working Group**

# Agenda

## Informatics Europe

### 1. Who we are

### 2. What we do - Main Working Groups

- a. Education
- b. Social Impact
- c. Diversity
- d. Data Analysis & Reporting – Ismael Garcia-Varea**  
Universidad Castilla-La Mancha
- e. Policy Recommendations
- f. Our Services

# Data Analysis and Reporting

## Informatics Higher Education Data Portal

<https://www.informatics-europe.org/data/higher-education>

Place for reliable facts and figures about **Informatics Higher Education in Europe** (starting from a **list of institutions** awarding degrees in the field and continuing with **student enrolments, degrees awarded, gender information, academic titles**, as well as data about **academic salaries** across most European countries).

### Our **Focus for 2022**:

- Annual update of the Data Portal.
- Addition of new large countries (e.g. Russia, Sweden, Hungary, Balkan countries) and information about academic positions and salaries for the Nordic countries.
- Further development of the Portal, increasing its value for our members.

**Help from the members' community needed!**

# Data Analysis and Reporting

**Data Reporting**, based on the statistics from the Data Portal.

**Our Focus for 2022:** Paper for the ACM Journal about benefits of the Data Portal, including case studies on Research Universities and Universities of Applied Sciences in some EU countries, as an example of how to use the data

Members' contribution is much appreciated.

# Data Analysis and Reporting

## What can you do?

*In case your country is not yet featured in our Data Portal:*

- Helping to find and interpret the data from your country and understand its particularities.
- Putting us in contact with people who have access to the statistics and understand your system.

*In case your country is covered:*

- Contributing to the data analysis of Informatics higher education in your country.



**Contact:**

[svetlana.tikhonenko@informatics-europe.org](mailto:svetlana.tikhonenko@informatics-europe.org)

# Agenda

## InformatICS Europe

1. Who we are

## 2. What we do - Main Working Groups

- a. Education
- b. Social Impact
- c. Diversity
- d. Data Analysis & Reporting
- e. **Policy Recommendations** - Jean-Marc Jézéquel, IRISA /  
University of Rennes
- f. Our Services

# Policy Recommendations Activity

- Informatics Europe aims at shaping public policy by
  - producing policy documents on issues that relate to any of the goals of the organisation,
  - empowering members in developing their own strategies
- Recommendations may refer to specific stakeholders or may have a broader audience.
- All our policy papers are published in the Informatics Europe dedicated webpage



# Policy Recommendations, latest news

- Coordinated answer to the **Public Consultation on European Digital Principles**, a consensus position of Informatics Europe and the National Associations from France, Germany, Italy and Spain **(Sept. 2021)**
- Formalized **working group**, integrated by representatives from the National Informatics Associations which are members of our association.

**You are our best ambassador to try and onboard your national association!!**

# Agenda

## Informatics Europe

1. Who we are

**2. What we do - Main Working Groups**

- a. Education
- b. Social Impact
- c. Diversity
- d. Data Analysis & Reporting
- e. Policy Recommendations
- f. Our Services**

# Goal of our services

Empowerment of the Informatics community in Europe - and particularly of our member institutions - by,

- Disseminating best practices
- Boosting visibility of members achievements
- Fostering networking and knowledge exchange
- Providing unique courses: taught by computer scientists, for computer scientists and with computer scientists

# Current services in the details

- **Academic Leadership Course**
  - 3 on-line courses with 59 participants, from 49 institutions, since September 2020 (of which ca. 60% Informatics Europe members)
  - 2 new courses planned for 2022, of which one residential
- **Department Evaluation**
  - First evaluation planned for 2H2022 for the Faculty of Informatics of Masaryk University
  - Scientific and Early Career series started in 2021, with ca. 100 participants registered for each session
  - Gender diversity series planned for 2022

# Current services in the details

- **Job platform**

- More than 650 posts since 2011, mainly from Informatics Europe members

- **Offer for Early Career Researchers**

- First webinar and workshop offered in October
- Building a PhDs Community in progress

- **ECSS**

- Held without interruption since 2005
- 175 participants in 2021

# Agenda

## Informatics Europe

1. Who we are

## 2. What we do - Main Working Groups

a. Education

**b. Social Impact** - Elisabetta Di Nitto Politecnico di Milano

**Ethics** - Viola Schaffionatti, Politecnico di Milano

c. Diversity

d. Data Analysis & reporting

e. Policy Recommendations

f. Our Services

# Ethics4EU

- IE participated and led the writing of two **reports**
  - Research Report on **European Values for Ethics in Digital Technology**
  - Research Report of **Existing Competencies in the Teaching of Ethics in Computer Science Faculties**
- IE supported the design and dissemination of **teaching bricks**
  - **Repository** of useful **re-usable/adaptable** education **bricks** for the teaching of digital ethics: <http://ethics4eu.eu/welcome-to-bricks/>
  - **IE working group** of different **scholars interested** in these topics (some of them already teaching these topics) to pre-evaluate and disseminate these bricks (May, June, July 2021)

# Ethics4EU

- IE organized and participated in the following **events**
  - **Dealing with the Complexities of Teaching Ethics to Future CS Professionals** (April 22): <http://ethics4eu.eu/event-dealing-with-complexities/>
  - **Teaching Ethics to Computer Science and Engineering Students – Experiences, Current Issues and Future Challenges** (September 22): <http://ethics4eu.eu/teaching-ethics-to-computer-science-and-engineering-students-past-experiences-and-future-outlook-2/>
- First publication on the **International Journal of Ethics Education**: <https://link.springer.com/article/10.1007/s40889-021-00135-1>



# EC expert group on AI and Data in Education and Training

- April 23<sup>rd</sup>: the European Commission launched an open call for experts for the **expert group on artificial intelligence and data in education**
- **IE** submitted its **candidate (Viola Schiaffonati)** who was appointed in June 2021
- **First meeting (July 8<sup>th</sup>):**  
<https://ec.europa.eu/transparency/expert-groups-register/screen/meetings/consult?lang=en&meetingId=27674&fromExpertGroups=true>

# EC expert group on AI and Data in Education and Training

- **Informal meetings** (Sep 24<sup>th</sup>, Oct 8<sup>th</sup>): preparatory work done before the meetings on specific issues (reading literature and writing documents)
- To actively involve **Informatics Europe** community, a questionnaire was sent and a **working group** formed, to work
  - Evaluating of organising a peer-learning activity (PLA) session with IE WG and Expert Group (EC) members, to exchange ideas and insights (PLAs are a standard practice among EC members)
- **Second meeting** (Oct 21<sup>st</sup>-22<sup>nd</sup>): first draft of the report
- **Guidelines** expected on **September 2022**

# Agenda

## Informatics Europe

1. Who we are
2. What we do
- 3. What we need**

# Your Active Participation

## ➤ Dissemination

- Follow us on LinkedIn & Twitter
- Distribute our monthly Bulletin and calls for participation in services

## ➤ Content contribution

- Encourage matter-experts to join temporary task-forces and/or working groups

## ➤ Strategic direction

- Share with us your interest, and ideas for further initiatives



# Questions and suggestions?





Universität Hamburg  
DER FORSCHUNG | DER LEHRE | DER BILDUNG



Hamburg

# EUROPEAN COMPUTER SCIENCE SUMMIT (ECSS) 2022

## 24 – 26 October 2022



INFORMATICS  
EUROPE

Fakultätentag Informatik



GESELLSCHAFT  
FÜR INFORMATIK