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
is

YOU
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 García-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

Informatics Europe Office is hosted by the Department of Informatics of the University of Zurich, Switzerland
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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.
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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**

- **2012**
  - Committee on European Computing Education (CECE) established
  - 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?”

- **2013**
  - Education working group establishment (IE and ACM Europe)

- **2014**
  - Education Award introduced, recognizing outstanding European educational initiatives

- **2015**
  - 1st report: “Informatics Education: Europe cannot afford to miss the boat.”

- **2016**
  - Informatics for All coalition created by ACM, CEPIS and IE

- **2017**
  - IE and ACM participate in a EC panel discussion
  - IE part of Steering Committee for ITiCSE

- **2018**
  - “Informatics for All: The strategy” published

- **2019**
  - Submission of the INFEDU EU COST Action proposal

- **2020**
  - Workshops in Brussel and virtual

- **2021**
  - Position Paper for the EC Digital Education Action Plan
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
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1. Who we are

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   b. Social Impact
   c. Diversity - Letizia Jaccheri, NTNU, Norway
   d. Data Analysis & reporting
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   f. Our Services
Gender Diversity – Our Achievements

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

First thoughts about WIRE

1st best-practices booklet: “More Women in Informatics Research and Education”

WIRE working group establishment

WIRE webpage created

Minerva Award introduced, recognizing best practices in encouraging and supporting women’s careers in Informatics

1st WIRE Workshop, as part of ECSS

Submission of the EUGAIN COST Action proposal

WIRE focused on EUGAIN launch:
• Action Chair: IE Board Member,
• Action Vice chair: IE Exec. Director
• Action GHM: IE EUGAIN

WIRE plans its 2022 reactivation, with new initiatives in the field


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.

<table>
<thead>
<tr>
<th>Working Groups</th>
<th>Deliverables</th>
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<tr>
<td>WG1: From School to University</td>
<td>Website: <a href="http://www.eugain.eu">www.eugain.eu</a></td>
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<tr>
<td>WG2: From Bachelor/Master to Ph.D.</td>
<td>Repository of initiatives and best practices</td>
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<td>WG3: From Ph.D. to Professor</td>
<td>Booklets with practical recommendations</td>
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<tr>
<td>WG4: Cooperation with Industry and Society</td>
<td>Handbook with validated measures and guidelines</td>
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<td>WG5: Strategy &amp; Dissemination</td>
<td>Policy recommendation documents</td>
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<td>Scientific publications</td>
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<td>Presentations</td>
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Gender diversity 2021/22

2021 Activities mainly focused on successfully launching EUGAIN COST Action,

- 1st 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
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      Universidad Castilla-La Mancha
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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
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   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!!
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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
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   b. Social Impact - Elisabetta Di Nitto Politecnico di Milano
      Ethics - Viola Schaffionatti, Politecnico di Milano
   c. Diversity
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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-deling-with-complexities/
EC expert group on AI and Data in Education and Training

• April 23rd: 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 8th):
EC expert group on AI and Data in Education and Training

- **Informal meetings** (Sep 24th, Oct 8th): 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 21st-22nd): first draft of the report

- **Guidelines** expected on **September 2022**
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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?