Informatics Europe

The European Voice of Informatics Research and Education

25 October 2022
Agenda

Informatics Europe

1. Who we are

2. What we do
is

YOU
The European voice of the R&E Informatics community
Our Members

Over 30 Countries & 160 Institutions
Departments, Faculties, Schools, Institutes, Private & Public Research Labs

Over 15,000 researchers*

*Assuming a conservative average of 10 research groups per institution, with 10 researchers each

Full member’s list on our website
Our Office
General administration and coordination

Nuria ANGUERA
Executive Director

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

Karin TRIVIERE
Executive Assistant

Responsibilities:
- Accounting
- Membership Management
- ECSS Organization
- Office General Administration

Kit Wan CHUI
Communication and Administration

Responsibilities:
- Communications
- Relations with National Informatics Associations
- Academic Empowerment (Courses, Webinars, etc.)

Svetlana TIKHONENKO
Web, Data & Analysis

Responsibilities:
- Analytics & Data Portal
- CV repository
- EUGAIN GHM
- Webpage management

Informatics Europe Office is hosted by the Department of Informatics of the University of Zurich, Switzerland
Our Working Groups

- **Research in Education** (39 people, from 29 institutions)
- **Ethics** (19 people, from 12 institutions)
- **Diversity & Inclusion** (16 people, from 13 institutions)
- **Data Analysis & Reporting** (12 people, from 10 institutions)
- **Policy Recommendations** (5 people, from 5 NIAs)
- **Sustainability** (13 people, from 11 institutions)
- **Open Science** (19 people, from 17 institutions)
Agenda

Informatics Europe

1. Who we are

2. What we do – General Goals
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 – Working Group Activities
Education Research WG

Composition and Goals

- **Chair:** Michael E. Caspersen and Enrico Nardelli, IE Board
- **Secretary:** Keith Quille, TU Dublin
- **Composition:** Individual voluntary sign-up
- **WG Goals:**
  - Informatics for All goals as a starting point
    - Establish informatics as a fundamental discipline to be taken by all students in school.
    - It should be recognized by all as a truly **foundational discipline** that plays a significant role in education for the 21st century.
  - Promote the Informatics Reference Framework for School
  - Initiate European Informatics Education research network activities
  - ... (more may be decided at the next WG meeting in November)
Education Research WG

Members (currently 39 from 13 countries)

Michael E. Caspersen, It-vest – networking universities (Chair)
Enrico Nardelli, University of Rome “Tor Vergata”, Italy (Chair)
Thomas Alessandro Ciarfuglia, Sapienza University of Rome, Italy
Marco Antoniotti, University of Milano-Bicocca, Italy
Maia Archjadze, Iv.Javakhishvili Tbilisi State University, Georgia
Erik Barendsen, Radboud University, the Netherlands
Morgane Chevalier, Haute école pédagogique (HEP) du canton de Vaud, Switzerland
Claire Conneely, Google
Fabrizio d’Amore, Sapienza University of Rome, Italy
James Doddy, TU Dublin, Ireland
Dilek Dastgir, University of Groningen, the Netherlands
Luca Fortizzi, University of L’Aquila, Italy
Matthias Haushoerl, Università della Svizzera italiana, Switzerland
Juraj Hromkovic, ETH Zurich, Switzerland
Johan Jeuring, Utrecht University, the Netherlands
Manana Khachidze, Iv.Javakhishvili Tbilisi State University, Georgia
Michael Kölling, King’s College London, UK
Janika Leoste, Tallinn University, Estonia
Gabriele Lenzini, University of Luxembourg, Luxembourg
Violetta Lonati, University of Milan, Italy

David López, Universitat Politècnica de Catalunya, Spain
Ugo Lopez, Università degli studi di Bari Aldo Moro, Italy
Carlos Matos, Royal Holloway University of London, UK
Christian Napoli, Sapienza University of Rome, Italy
Keith Nolan, TU Dublin, Ireland
Ciara O’Leary, TU Dublin, Ireland
Gabriel Parriaux, Haute école pédagogique (HEP) du canton de Vaud, Switzerland
Stefan Pasterk, Alpen-Adria-Universität Klagenfurt, Austria
Dana Petcu, West University of Timisoara, Romania
Keith Quille, TU Dublin, Ireland
Mariana Rocha, TU Dublin, Ireland
Adrian Sterca, Babes-Bolyai University, Romania
Marco Temperini, Sapienza University of Rome, Italy
Ernest Teniente, Sociedad Científica Informática de España (SCIE), Universitat Politècnica de Catalunya (UPC), Spain
Magda Tsintsadze, Iv.Javakhishvili Tbilisi State University, Georgia
Matias Valdenegro-Toro, University of Groningen, the Netherlands
Ángel Velázquez, Universidad Rey Juan Carlos, Sociedad Científica Informática de España (SCIE), Spain
Tatjana Welzer, University of Maribor, Slovenia.
2022 Achievements:

- Formal launch of the WG in late April with 38 participants.
- Education workshop @ ECSS 2022 (earlier today)
- First proper meeting in the WG (November 2022)

In the pipeline, if enough interest to work on these:

- Make the IRF4S known in our countries
- Collect feedback from users (teachers and (other) curriculum designers)
- Map national curricula wrt IRF4S
- Initiate European IEd research network activities, e.g., workshop @ ITiCSE
- International summer school (associated with ITiCSE)
Ethics WS

Current members

Dympna O'Sullivan, TU Dublin, Ireland (Chair)
Thomas Alessandro Ciarfuglia, Sapienza University of Rome, Italy
Suzana Alpsancar, University of Paderborn, Germany
Tiziana Catarcì, Sapienza Università di Roma, Italy
Andrea F. Curley, TU Dublin, Ireland
Radu Dobrin, Mälardalen University, Sweden
Gordana Dodig-Crnkovic, Chalmers University of Technology, Sweden
Damian Gordon, TU Dublin, Ireland
Manana Khachidze, Iv.Javakhishvili Tbilisi State University, Georgia
Monica Landoni, Universita della Svizzera Italiana, Switzerland
Gabriele Lenzini, University of Luxembourg, Luxembourg
Ugo Lopez, Università degli studi di Bari Aldo Moro, Italy
Emma Murphy, TU Dublin, Ireland
Alexander Pretschner, TU München, Germany
Ayushi Rastogi, University of Groningen, the Netherlands
Yannis Stavrakakis, TU Dublin, Ireland
Brendan Tierney, TU Dublin, Ireland
Tatjana Welzer Družovec, University of Maribor, Slovenia
Ernst Wit, Universita della Svizzera Italiana, Switzerland
Ethics WG

Long-term Goals and expected outcomes

• Ensure that the importance of teaching social impact and ethics issues in Informatics in degree courses is recognized
  - Accreditations (e.g. BCS)
  - Guidelines for what content is important for accreditation and how to include it in curricula

• Increase literacy and awareness about ethical issues in the general population of Europe
  - Citizen science dissemination

• Increase literacy on ethics among decision makers (CEOs, policymakers political organizations)
  - White papers
Ethics WG

Towards the LT Goals: 2023 objectives

• Better understand the European landscape with relation to teaching practices for Ethics in CS, Informatics and related disciplines
  - Follow-up survey to the 2019 one

• Raise awareness about the importance of teaching Ethics to students in CS, Informatics and related disciplines
  - Webinars, publications, engagement with special interest groups (incl. industry)

• Disseminate best practice in the of teaching Ethics to students in CS, Informatics and related disciplines
  - Curricula with Ethics content
  - Case studies (e.g. as produced by the Ethics4EU project)
  - Methodologies to facilitate critical thinking and debate
Diversity & Inclusion WG

Composition and goals

• **Current chair:** Elisabetta Di Nitto, IE Board
• **Composition:** Individual voluntary sign-up
• **WG Goals:**
  - Creating awareness about the problems, challenges, and values of diversity;
  - Acting as a collector of European initiatives on diversity and inclusion;
  - Defining best practices to cope with diversity through inclusion;
  - Create a network of interested parties.
Diversity and Inclusion WG

Current members

Cinzia Cappiello, Politecnico di Milano, Italy
Thaleia Dimitra Doudali, IMDEA Software Institute, Spain
Antinisca Di Marco, University of L'Aquila, Italy
Elisabetta Di Nitto, Politecnico di Milano, Italy
Svetlana Hensman, TU Dublin, Ireland
Beate List, Google
Cristina Manresa, Universitat de les Illes Balears/Sociedad Científica Informática de España, Spain
Davide Martinenghi, Politecnico di Milano, Italy
Maristella Matera, Politecnico di Milano, Italy
Claire Matti, Haute école pédagogique du canton de Vaud, Switzerland
Lili Nemec Zlatolas, University of Maribor, Slovenia
Ayushi Rastogi, University of Groningen, Netherlands
Peter Sestoft, IT University of Copenhagen, Denmark
Anna Szlávi, NTNU, Norway
Ayumi Takemoto, University of Latvia, Latvia
Claudio Zandron, Università di Milano-Bicocca, Italy
Diversity and Inclusion WG

Outcomes

2022 Summary

- Formal launch of the WG in April
- Goals, interests
- Survey to collect contributions about diversity and inclusion is under development and will be launched soon
- A github website to collect links to concrete contributions is under preparation

Planned, depending on capacity

- Develop a booklet to create awareness about the problems of diversity
- Develop a booklet including best practices and indicators concerning diversity of inclusion
Data Analysis and Reporting WG

Composition and Goals

- **Informatics Europe Data Portal**, one of our best assets
- **Chair**: Přemek Brada, member of IE Board of Directors
- **Composition**: Individual voluntary sign-up
- **WG Goals:**
  - Ensure IE has high quality, reliable data sets at a pan-European level.
  - Provide meaningful statistics and analytic outputs (1-2 reports each year envisaged)
Data Analysis and Reporting WS

Current members

Přemek Brada, University of West Bohemia, Czech Republic (Chair)
Maia Archuadze, Iv.Javakhishvili Tbilisi State University, Georgia
Ismael García-Varea, Universidad de Castilla-La Mancha, Spain
James Doddy, TU Dublin, Ireland
Manana Khacidze, Iv.Javakhishvili Tbilisi State University, Georgia
Markus Lange-Hegermann, Technische Hochschule Ostwestfalen-Lippe, Germany
Ernestina Menasalvas, Universidad Politecnica de Madrid, Spain
Christian Napoli, Sapienza University of Rome, Italy
Axel Ngonga, Paderborn University, Germany
Damian Tamburri, Politecnico di Milano, Italy
Brendan Tierney, TU Dublin, Ireland
Svetlana Tikhonenko, Informatics Europe, Switzerland
Magda Tsintsadze, Iv.Javakhishvili Tbilisi State University, Georgia
Data Analysis and Reporting WG

Outcomes

**2022 Summary**
- Formal launch of the WG in May
- Goals, interests
- Briefing on the data portal internal workings

**Planned**, depending on capacity
- Analysis using current data
- Improvements (technical, methodological, geographical coverage) of the dataset

Your input welcome:
Policy Recommendations WG
Composition and Goals

• **Chair:** Jean-Marc Jézéquel, IE Board Director

• **Composition:** a representative of each national association which is currently a member of Informatics Europe

• **WG Goals:**
  • Shaping public policy on Informatics research and education by producing policy documents such as statements, positions, reports, recommendations or feedbacks to public consultations on issues that relate to any of the goals of the organization
  • Produce at least 2-3 statements or feedback to the European Commission each year.
Policy Recommendations WG

Outcomes

**2022 Achievements**

- formal launch of the WG in early March, with Spain, Germany, Italy, and France.
- Feed back provided on
  - Conflict between Europol and the European Data Protection Supervisor
  - Digital education – enabling factors for success
  - Policy Recommendations supporting the uptake of AI in the Public Sector (DG CNCT and ICF)

**In the pipeline**, if enough interest to work on these

- Digital Euro
- The Digital Services Act (DSA)
- European cybersecurity certification scheme (EUCC) based on common criteria.
- GreenData4All
Sustainability WG

Composition

Christian Napoli, Sapienza University of Rome, Italy (Chair)
Vasilios Andrikopoulos, University of Groningen, the Netherlands
Stefania Bandini, University of Milano-Bicocca, Italy
Antinisca Di Marco, University of L'Aquila, Italy
Gordana Dodig-Crnkovic, Chalmers University of Technology, Sweden
Andrea Emilio Rizzoli, IDSIA USI-SUPSI, Switzerland
Marina Jirotka, University of Oxford, UK
Brian Keegan, TU Dublin, Ireland
Janika Leoste, Tallinn University, Estonia
Henry Muccini, University of L'Aquila, Italy
Yanos Sazeides, University of Cyprus, Cyprus
Giovanni Stilo, University of L'Aquila, Italy
Carolyn Ten Holter, University of Oxford, UK
Sustainability WG
WG Goals (tuning in progress...)

• **Identify tools** (where such tools exist) or **develop them** (where they do not) to help **assessing the impact** of our computational models and systems, as well as to assess the relevance of long-term model sustainability

• Create **action plans to** disseminate the culture of sustainability and to **affirm the role of computer science and informatics for a more sustainable society**, e.g. best practice guidelines for data-related activities or digital systems that affect human beings and society.

• Identify ways to **lobby within our own organizations for sustainability** concerns and the impact of digital technologies, finding ways to raise our voices and bring our concerns to the table campaign for colleges for a more sustainable society and a more central role of sustainability concerns and the role of computer science and informatics
Sustainability WG

Outcomes

2022 Achievements

- Launch of the WG and 2 meetings in 2022
- WG presented during the International Summer School Advances in Artificial Intelligence (Como, Italy, sep. 19-23 2022)

In progress:

- Sustainability Webinars Series
- Contribute to create an European Network on Sustainable ICT
- Identification of sustainability-oriented conferences in ICT
- Collaboration with European conferences / summer schools, to raise awareness about IE WG / Sustainability.
## Open Science WG

- **Open Data Research Management**
  - Chair: Michael Goedicke <Michael.Goedicke@paluno.uni-due.de>

- **Open Access**
  - Chair: Alfonso Pierantonio <alfonso.pierantonio@univaq.it>

- **Open Code Repositories**
  - Chair (Interim): Manuel Carro <manuel.carro@imdea.org>

- **Conference Maturity Model**
  - Chair: Carlo Ghezzi <carlo.ghezzi@polimi.it>

- Started after ECSS 2022
- Four task forces

- Chair: Manuel Carro <manuel.carro@imdea.org>
## Open Science WG: Goals

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<tr>
<th>Clarify Open Science for IE members</th>
<th>Concrete advances in specific topics arising from the task forces</th>
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### Open Data Research Management
- Accelerate progress in CS
- Ws. to explore outstanding questions
- Design, deploy infrastructure

### Open Access
- Collaborations with National societies on joint proposals
- Relationships with Plan-S, transformative agreements
- Clarify research evaluation

### Open Code Repositories
- Infrastructures to safeguard / identify / reference software
- Evaluation of artifacts
- Links data / software

### Conference Maturity Model
- How to determine / ensure conference quality / impact?
- What would be a sustainable future model?
- How do data & artifacts fit?
Open Science WG

Composition

Manuel Carro, UPM / IMDEA Software Institute (*Working Group Chair*)
Étienne André, Loria/Université de Lorraine, France
Marco Antoniotti, University of Milano-Bicocca, Italy
Ioannis Chatzigiannakis, Sapienza University of Rome, Italy
Oscar Corcho, Universidad Politécnica de Madrid, Spain
Antinisca Di Marco, University of L'Aquila, Italy
Carlo Ghezzi, Politecnico di Milano, Italy (*Conference Maturity Model Task Force Chair*)
Michael Goedicke, University of Duisburg-Essen, Germany (*Open Science & DRM Task Force Chair*)
Kaido Kikkas, Tallinn University of Technology, Estonia
Ugo Lopez, Università degli studi di Bari Aldo Moro, Italy
Ernestina Menasalvas, Universidad Politecnica de Madrid, Spain
Rafael Penaloza Nyssen, University of Milano-Bicocca, Italy
Silvio Peroni, University of Bologna, Italy
Alfonso Pierantonio, Università degli Studi dell'Aquila, Italy (*Open Access Task Force Chair*)
Horia F. Pop, Babes-Bolyai University, Romania
Ernest Teniente, SCIE / Universitat Politècnica de Catalunya, Spain
Antonio Vallecillo, SCIE / Universidad de Malaga, Spain
Ernst Wit, Universita della Svizzera italiana, Switzerland
Agenda

Informatics Europe

1. Who we are

2. What we do – Services
General goals of IE 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
Broadly Know IE services

• **Job platform**
  - Close to 800 posts since 2011 (of which 90 in 2022), mainly from Informatics Europe members

• **Webinar series**
  - Scientific and Early Career series in 2021/22; Gender Diversity series ongoing. Over 500 participants.
  - Webinar recordings and slides available on IE website & YouTube channel

• **ECSS**
  - Held without interruption since 2005
  - 140 participants in 2021 (virtually and in-presence) and additional 55 participants to the WIRE-EUGAIN WS
  - Willing to host / co-organize ECSS as from 2024? Contact us!
Academic Leadership Courses

Facilitators: Prof. Geraldine Fitzpatrick & Prof. Austen Rainer

How do we create positive academic cultures to thrive together in our research, education & impact on society?

Our courses offer evidence-based reflections and actions toward that aim.

For computer scientists, with computer scientists, by computer scientists
Academic Leadership Courses

Changing Academic Cultures

Themes
• Situate your leadership
• Know yourself & others
• Lead yourself & others

Benefits
• Further your development
• Peer-support community
• Share experience
• Gain practical strategies
• Access to a range of additional resources
Academic Leadership Courses
Changing Academic Cultures

Online
(Spring 2023)
- New & emerging leaders
- 7 x 2hr sessions, fortnightly
- In-between work

Residential
(June 2023)
Vienna
- Senior / established leaders
- 4-day residential course
- Indoor / Outdoors
- Quiet / personal time
- Krainerhütte: 35 mins from airport
“[The course] really changed the way I think about my work. It cannot be said enough: this course was the best course I have ever taken.”

[Online course]

“… a wonderful course we had with so many valuable take-homes that I’m now working to implement in my leadership practice.”

[Residential course]
Department Evaluation
Supporting academic progress towards excellence

- Conducted by internationally recognised researchers in the field, with experience in evaluation;
- an exclusive, neutral, peer-review driven evaluation process based on the standards and experiences of IE;
- a multidimensional approach, includes aspects such as research management, research policy, research facilities, Ph.D.-training, and the societal relevance of research.
- A thorough analysis of strengths, opportunities, and areas for improvement.

Faculty of Informatics of Masaryk University Evaluation
Brno, Sept. 2022
Networking partner in EU Projects

- **EUGAIN COST ACTION**
  - Grant Holder Manager (ca 200KEUR/year, 130 people in the network and growing)

- **Ethics4EU**
  - 2019 – 2022 project (details provided in Societal Impact of Digital Transformation workshop)

- **Inclusion4EU**
  - Just granted!
  - Sister project of Ethics4EU, we must have done something right!

- **XYZ - That new project you are planning to submit!**
CV repository – NEW in 2023!
for Informatics early career professionals

- Free service for students and recent graduates of IE member institutions
- Paying service for companies
- Tool currently under development, sponsored by BENDING SPOONS
- CVs input required as from December 2022, help us disseminate!!
Agenda

Informatics Europe

1. Who we are

2. What we do

3. What we need
Your Active Participation
IE is a community, it’s you
your support in necessary

- **Dissemination**
  - Follow us on LinkedIn & Twitter
  - Distribute our monthly Bulletin & activities calls
  - Encourage your colleagues and students to **make use of IE services**

- **Content contribution**
  - Encourage matter-experts to join task-forces and/or working groups

- **Strategic direction**
  - Share with us your interest and ideas for further initiatives
Questions and suggestions?
ECSS 2023

23-25 October 2023 (Mon-Wed)

Edinburgh, Scotland
The School of Informatics
• ~500 staff, inc.:
  • ~150 Academic staff
  • ~230 Research staff
• ~2050 students:
  • ~1180 Undergraduates
  • ~400 MSc Students
  • ~480 PhD Students
• Research income ~£22M/yr
• Most research power in the UK
• Large number of startups and spinouts
Research in Informatics
happens across six institutes
ECSS 2023

23-25 October 2023 (Mon-Wed)

Edinburgh, Scotland