

5th workshop "Environmental Informatics between Sustainability and Change" (UINW 2017)

Submission deadline: 30th April 2017

Short paper: max. 6 pages – long paper: max. 12 pages

<https://informatik2017.de/ws30-uinw-2017/>

Background information

The German Informatics Society (Gesellschaft für Informatik e.V. (GI)) is organizing the INFORMATICS 2017 conference by the end of September. The motto of this year's conference is: "Digital Cultures". The conference will take place from 25th to 29th of September, 2017 in Chemnitz, Germany.

The importance of computer sciences within natural sciences, social sciences, and environmental sciences is indisputable. The motto of the INFORMATICS 2017 conference "Digital Cultures" was chosen with regard to that. It shows that information and communication technologies (ICT) and their application fields always have an influence onto the society.

Environmental Informatics are an important part of Applied Computer Sciences. This importance has been recognized already in the eighties. Based on that, the panel of environmental informatics experts of the GI (Fachausschuss Umweltinformatik) has been founded in 1986. The aim is to exchange experiences and analyse and solve environmental problems by means of current ICT methods. This includes the question if and how complex systems can be treated.

Topics of the workshop

Especially in the context of environment and energy, as well as in supporting humans in health and polar questions, big data is to be processed and analysed. Based on that, here are some examples that could be addressed within the workshop:

- Big data in the context of environment applications
- Geographical Information Systems (GIS)
- Business Environmental Information Systems (BUIIS)
- Climate change and adaption
- Modelling and simulation of big data
- Environmental and energy information systems
- Relation between environmental and health data
- Smart Meter and Smart Grid
- Green IT and Green by IT
- ICT support for humans in different life phases
- Environmental informatics and design
- ...

Referring to the main topic “Digital Cultures”, we will focus on the “**digitalisation of environmental informatics**”. How does the “culture of environmental informatics” change? Is sustainability a megatrend that will further develop ICT issues in regards of environmental sciences? How will digital cultures in the following fields change:

- Open Data
- Software supporting resource saving by providing information to users (e.g. mobile applications to visualize the sustainability of products)
- Citizen Crowd Sciences
- Protection of the environment in the context of companies: improvement or dilution by information systems?
- Arrangement of education in the context of environmental informatics and Green IT
- Fake Environmental News

Organisation

The workshop is a one-day workshop. Maximal number of participants: 30

We plan to have a mix of traditional presentations and impulse talks as well as a round table. The workshop results will be published in the LNI publication of the conference and summarized in the newsletter of the panel of environmental informatics experts. The workshop will be in German and English.

Contributions

Contributions for the “Environmental Informatics between Sustainability and Change” workshop should enclose max. **12 pages for a “long paper”** and max. **6 pages for a “short paper”**. They can be written in German or English. Please use the LNI format style: <https://www.gi.de/index.php?id=171>

The reviewing process will a combined process of peer-review and review by external experts. We will ask colleagues from the communities of environmental modelling and business environmental information systems to support the review. The time table is based on the conference guideline.

So far, the workshop took place during the annual conference of the German Informatics Society in Koblenz in 2013, in Stuttgart in 2014, in Cottbus in 2015, and in Klagenfurt in 2016. This year, we aim to highlight the (cultural) change in applied topics and in computer science itself.

Your ideas regarding current and future research questions addressing environmental issues are more than welcome! We are looking forward to having an interesting discussion in this context in Chemnitz. We invite researchers and experts from the practical field who did not publish their ideas in the environmental informatics community so far, but find themselves in the interdisciplinary workshop.

We encourage especially junior researchers to participate in the workshop.

Important dates

Submission of contributions for the workshops: **30th of April, 2017**

Decision on the acceptance of contributions: 15th of May, 2017

Submission of the printable version: 30th of June, 2017

The registration for the INFORMATICS 2017 (main conference) is required to participate in the workshop. The registration fees depend on the number of days you want to join the conference. We expect at least one author to register for the conference and workshop.

Organisation and further information

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Alternate speaker of the **panel of environmental informatics experts**

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The panel of environmental informatics experts of the German Informatics Society supports the UINW workshop actively.