

*Wishing You a
Safe and Secure
New Year
2024*

SPOTLIGHT

C2IMPRESS 2nd General Assembly

The C2IMPRESS [consortium members](#) attended the 2nd General Assembly and 3rd Periodic Meeting at Palma de Mallorca, Spain 25-27 October, 2023. The meeting was hosted by two of its consortium members,

[Universitat de les Illes Balears \(UIB\)](#) and [Govern de les Illes Balears \(GOIB\)](#).



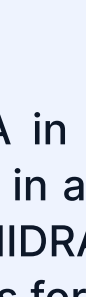
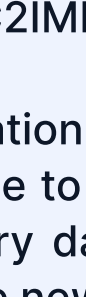
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Istanbul University and C2IMPRESS Call for Papers for 'Journal of Sociology'

[Istanbul University Journal of Sociology](#), in association with the [C2IMPRESS Project](#), recently announced a special issue (Vol 44/ Issue 1) titled "[Community Resilience to Disruptive Natural Disasters](#)," and called for submissions on the topic.

For this special issue, the esteemed panel of Guest Editors will include

[Dr Mohammad Azizur Rahman](#) (Technovative Solutions Limited, Manchester, UK); [Thanasis Sfetsos](#) (National Centre for Scientific Research "Demokritos", Athens, Greece); [Mehmet Hanefi Topal](#) (Kirkilareli University, Kirkilareli, Turkiye) and [Adem Baspinar](#) (Kirkilareli University, Kirkilareli, Turkiye).



Istanbul University Journal of Sociology

Call for Papers

Special Issue:
Community Resilience to Disruptive Natural Disasters

Deadline for Article Submission*:
March 31, 2024

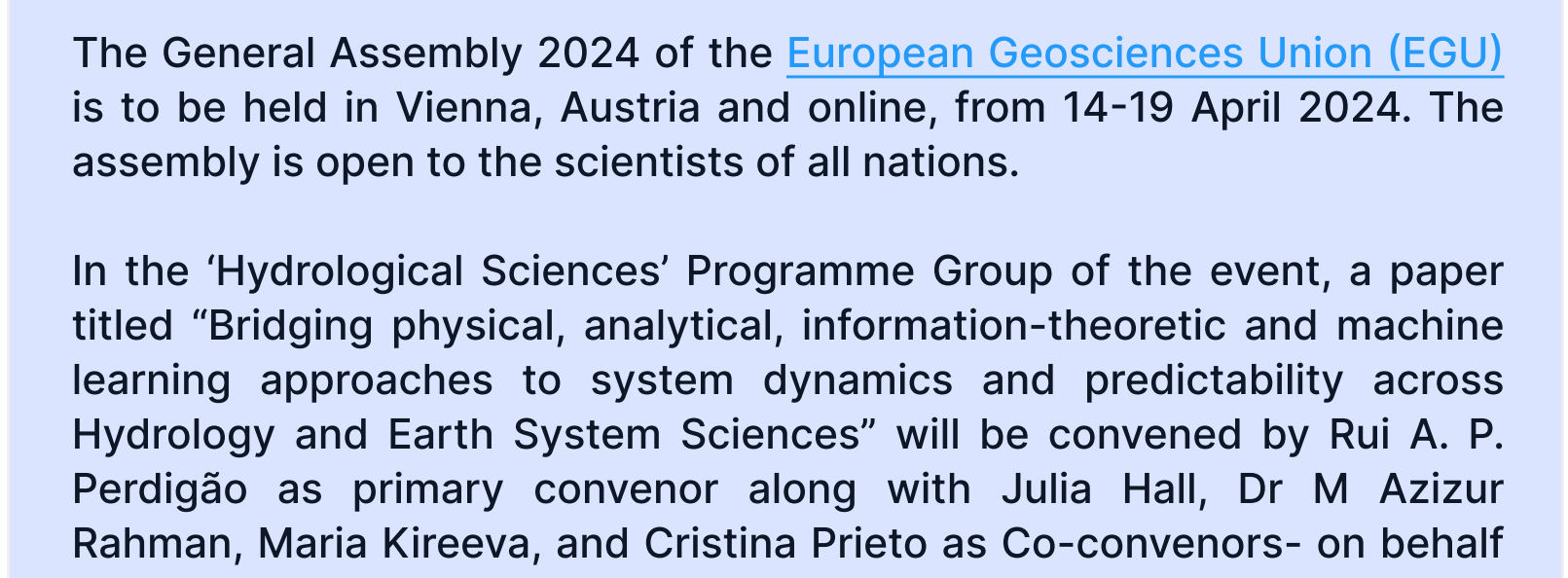
*Submissions will be accepted in Turkish or English

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Hidralerta – an EWS for Ports and Coastal Zones

HIDRALERTA - a forecasting and early warning system for coastal flooding and ship berthing or mooring -is developed by the National Laboratory of Civil Engineering/Laboratório Nacional de Engenharia Civil (LNEC) for the C2IMPRESS project.

The implementation of HIDRALERTA in a computer cluster (MEDUSA) makes it possible to run this system in a real-time mode (the numerical models run every day). Currently, HIDRALERTA needs approximately 1 hour to generate new forecast results for the next 72 hours.



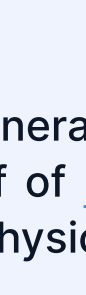
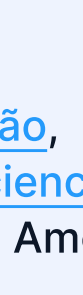
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UPCOMING EVENTS

C2IMPRESS at the EGU GA 2024

The General Assembly 2024 of the [European Geosciences Union \(EGU\)](#) is to be held in Vienna, Austria and online, from 14-19 April 2024. The assembly is open to the scientists of all nations.

In the 'Hydrological Sciences' Programme Group of the event, a paper titled "Bridging physical, analytical, information-theoretic and machine learning approaches to system dynamics and predictability across Hydrology and Earth System Sciences" will be convened by Rui A. P. Perdigão as primary convener along with Julia Hall, Dr M Azizur Rahman, Maria Kireeva, and Cristina Prieto as Co-conveners - on behalf of the C2IMPRESS Project.



European Geosciences Union General Assembly 2024

Session HS 13.4: Bridging physical, analytical, information-theoretic and machine learning approaches to system dynamics and predictability across Hydrology and Earth System Sciences

Convener

- Rui A.P. Perdigão
Meteoceanics Institute for Complex System Science
IUC Physics of Complex Geoevolutionary Systems
Fluid Dynamical Systems
USA

Date: 14-19 April, 2024
Venue: Vienna, Austria and Online

Co-conveners

- Julia Hall
Meteoceanics Institute for Complex System Science,
Portugal
- Mohammad Azizur Rahman
Technovative Solutions Limited
UK
- Maria Kireeva
National Cancer Institute (NCI)-Frederick
United States
- Cristina Prieto
FUNDACION INSTITUTO DE HIDRAULICA AMBIENTAL, IHCANTABRIA
Spain

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PAST EVENTS

C2IMPRESS at the American Geophysical Union 2023

[Rui A. Pita Perdigão](#), Director-General, [Meteoceanics Institute for Complex System Science](#), on behalf of [C2IMPRESS Project](#), presented and convened at the American Geophysical Union (AGU) 2023.

He was one of the Convenors for two oral sessions and one poster presentation on the topic "Extreme Variability and Complexity: Bridging Theories and Data-Driven Approaches Across Scales, from Urban Geosciences to the Geospace" discussed at the AGU23 on December 11, 2023.



Session NG13A/ NG14A/ NG12B - Extreme Variability and Complexity: Bridging Theories and Data-Driven Approaches Across Scales, from Urban Geosciences to the Geospace

Primary Convener

- Daniel J.M Schertzer
Ecole Nationale des Ponts et Chaussées

Date: 12 December 2023
Time: NG13A (Oral) 14:10 – 15:40 (PST)
NG14A (Oral) 16:00 – 17:30 (PST)
NG12B (Poster) 08:30 – 12:50 (PST)

Conveners

- Julia E Stawarz
Imperial College London
- Rui A.P. Perdigão
Meteoceanics Institute for Complex System Science
- Timothy Smith
Cooperative Institute for Research in Environmental Sciences

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C2IMPRESS at the CERIS DRS Annual Event 2023

On 5 December, [Rui A. Pita Perdigão](#), Director-General, [Meteoceanics Institute for Complex System Science](#), was present as one of the panelists at the CERIS DRS annual event session Societal Resilience and Risk Governance - Panel 1: From knowledge of risks and multi-hazard risks and vulnerabilities to responses - risk awareness, early warning and education, on behalf of C2IMPRESS.

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C2IMPRESS at the ITDRR 2023

[Julie Dugdale](#) (Professor, University Grenoble Alps, France), one of the Keynote Speakers and the Program Committee Chairs at the Information Technology in Disaster Risk Reduction Conference (ITDRR) 2023 Conference presented her paper on "Human behaviour in crisis situations - Modelling and Simulation", on Dec 5 at 14:40-15:40 (JST)/6:40-7:40 (CET).

Her paper mentioned her development work for the [C2IMPRESS Project](#). The session was chaired by Yuko Murayama (Tsuda University, Japan).



Information Technology in Disaster Risk Reduction

Tokyo, Japan, December 4-6, 2023

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PPCP Workshop held in Portugal

On 16 October 2023, the 1st Public-Private-Civil Living Lab of the Portuguese case study was held at the facilities of the Port Administration of Figueira da Foz. This Living Lab was organized by the Portuguese C2IMPRESS project team, consisting of members from the Ports of Aveiro and Figueira da Foz.

In Portugal, the pilot region for the application of the Public-Private-Civil Living Lab comprises the municipalities of Figueira da Foz and

Montemor-o-Velho. The 1st Living Lab identified the natural risks associated with these municipalities, their multidimensional impacts, and the social groups that would be affected in the event of natural disasters. There were 20 participants, representing public, private, and civil society stakeholders.

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PPCP Workshop held at Ordu, Turkey

The Municipality of Ordu, Turkey hosted the [C2IMPRESS](#).

'PPCP-Living Laboratory' Workshop on October 5, 2023. Representatives from more than 20 public, private, and civil society bodies from Ordu participated in the event.

The Municipality of Ordu is one of the case study areas for the C2IMPRESS Project. The case study concentrates on potential flood disasters and related landslides in the central districts of Ordu province.

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C2IMPRESS MENTIONS

1.

[C2IMPRESS](#) was recently mentioned in the [Revista IntelCities](#), a renowned magazine in Portugal, specializing in intelligent cities. The piece was written by [Rui A. Pita Perdigão](#), Director-General, [Meteoceanics Institute for Complex System Science](#); he talked about, how the [C2IMPRESS](#) consortium conceives and develops a new generation of methodologies, technologies, and products for analysis, prediction, prevention, and decision support systems to face the emergence of multi-risks involving profound co-evolution between the physical and social environment, natural and built environment.

Sistemas de Inteligência Urbana: Da Adaptação à Coevolução Sinérgica

INOVAÇÃO

Rui Pita Perdigão
Professor Catedrático em Física, Cientista e Empreendedor

A dinâmica de sistemas urbanos saudavelmente funcionais é intrinsecamente adaptativa, numa interação espaço-temporal entre o meio social, natural e construído através de recursos humanos, naturais e tecnológicos de cuja gestão articulada emerge uma unidade funcional estruturalmente coesa, a urbe.

A construção de uma inteligência urbana requer ir mais além, tomando partido metodológico e operacional da cooperação estratégica entre as leis da natureza, as valências técnico-científicas e o poder de escolha humano na abordagem aos desafios. Têm havido esforços na integração entre aspetos tecnológicos e sociais, como sejam entre inteligência artificial e iniciativas cidadãs em sistemas de informação urbana. Todavia, a sua eficácia prática beneficiaria mais com o reforço de uma base física que capacitasse uma maior adesão à realidade natural.

Para alcançar tal base física há que desenvolver e aprofundar um maior diálogo com a natureza, com os princípios físicos subjacentes, porquanto fazemos as escolhas que fizemos, em última análise somos sempre condicionados pela inexistência da Física, das leis da natureza. A maestria neste domínio transversal torna-se assim essencial para apoiar e avançar a construção de sistemas de inteligência de valor acrescentado para a sociedade e meio ambiente.

Por exemplo, consideremos os desafios de circularidade e sustentabilidade em meios urbanos ancorados na economia de consumo. Ora, esta por inerência é dissipativa. Como tal, dependendo do consumo irreversível de recursos para poder operar. Mais: a dissipação produz entropia, reduzindo a energia livre disponível para gerar trabalho, para a criação de valor. Por seu turno, entropia produz caos, degradando estruturalmente o sistema. Urge assim tomar formas de desenvolver ordem dentro do caos. Utopia? Não, é o que estamos a desenvolver na prática em sistemas de inteligência de base natural.

Parece estranho, mas não é. Basta olhar em nosso redor com atenção à humidade. Que maior inteligência que a da natureza? O nosso planeta é um exemplo intuitivo de ordem no caos, de estruturação e otimização sistémicas numa permanente termodinâmica longe de equilíbrio. Aquela cuja dinâmica leva à emergência de estruturas dissipativas complexas, altamente eficientes na sua função, com exemplos

44

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2.

The C2IMPRESS Project has lately been mentioned and featured in various external platforms. The platforms are linked to one of C2IMPRESS consortium members, [Porto de Aveiro](#).

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EXCLUSIVE

C2IMPRESS Interview:

In conversation with Cenk Gureken

Cenk Gureken is currently working as the European Projects Team Leader at [SAMPAS Holding](#), which is the biggest and most awarded smart city solutions provider company in Turkey.

The C2IMPRESS Dissemination, Communications and Exploitation (DC&E) team talked to Cenk regarding the project and his organisation's contribution to it.

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