Final Program

June 1-3, 2022

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BECAUSE OF COVID PANDEMIC TRAVEL RESTRICTIONS STILL IN FORCE IN SOME PARTS OF THE WORLD, WE HAVE DECIDED TO MAKE ISC'2022 A HYBRID EVENT, AS YOUR HEALTH AND SAFETY ARE OUR MAIN CONCERN

The ISC'2022 final programme, gives information on how to reach the University College Dublin, Dublin, but also gives you info on how to virtually attend the event for those who are unable to attend onsite.

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General Information

1. Conference Location

The Conference will be held at

UCD Dublin
School of Computer Science
Belfield, Dublin 4, Ireland
+353 1 716 7777
eleni.mangina@ucd.ie

The meeting room will be B004, School of Computer Science, ground floor (opposite O'Brien's Science building), (C6 on the map, posted further in this programme)

For those taking part virtually in the ISC'2022 Conference there will be an Online Meeting Room using the ZOOM software. (**ZOOM information will be sent to all paying participants**) ISC'2022 Registration will start on Wednesday June 1st, at 12.00 p.m. till 17.00 p.m. On Thursday, June 2nd it will be from 08.30 a.m. to 15.30 p.m, and on Friday June 3rd, from 08.30 a.m. to 12.00 p.m.

2. Getting to Dublin – UCD Belfield

The following two links will give you a succinct overview of how to reach UCD. The other info posted further is for those who want more extensive info.

Getting to UCD information:

https://www.ucdela.com/whyucd/university-campus-experience/getting-to-ucd/

Parking at UCD:

https://ucdestates.ie/commuting/getting-here/driving/parking/parking-for-visitors/

By Plane

Arriving by plane into Ireland, you will most probably land at Dublin Airport which is located north of Dublin city, near Swords in the administrative county of Fingal. Dublin Airport is also the headquarters of Ireland's flag carrier Aer Lingus , the regional airlines Stobart Air and CityJet as well as those of low-cost carrier Ryanair. The airport offers a short and medium haul network, domestic services to regional airports in Ireland, and long-haul services to the

United States, Canada, the Middle East and Hong Kong. Alternatively you can arrive via Shannon Airport and make your way by public transport to Dublin.

Bus from Airport
Several bus companies connect Dublin Airport to Dublin city centre, such as Airlink Express (Busses 757 and 747) which brings passengers directly to Busáras (Central Bus Station, Dublin) and Aircoach (Bus 700) which operates a service which passes UCD. The Aircoach bus stop at UCD is located just outside the main N11 (Stillorgan Road) entrance).

Taxi from Airport
Taxis are available from the forecourts directly outside Terminal 1 & Terminal 2. Passengers should follow Taxi signage to the designated taxi ranks. A taxi dispatcher is available at either taxi rank if you require any further information or assistance.

By Ferry and Train
Dublin Connolly Station is connected by bus to Dublin Port and ferries run by Irish Ferries and Stena Line to Holyhead for connecting trains on the North Wales Coast Line to Chester, Crewe and London Euston. Dublin Connolly to Dublin Port can be reached via Amiens Street, Dublin into Store Street or by Luas via Busáras (Central Bus Station, Dublin) where Dublin Bus operates services to the Ferry Terminal.

By Train
Heuston and Dublin Connolly stations are the two main railway termini in Dublin. Operated by Iarnród Éireann, the Dublin Suburban Rail network consists of five railway lines serving the Greater Dublin Area and commuter towns such as Drogheda and Dundalk in County Louth, Gorey in County Wexford, and extending as far as Portlaoise and once a day, Newry. One of the five lines is the electrified Dublin Area Rapid Transit (DART) line, which runs primarily along the coast of Dublin, comprising 31 stations, from Malahide and Howth southwards as far as Greystones in County Wicklow. Commuter rail operates on the other four lines using Irish Rail diesel multiple units. It is a short walk from Dublin Connolly Station to O'Connell Street, where the Dublin Bus numbers 11 and 46A can be boarded for UCD. The route 145 provides a direct route from Heuston Station to Belfield via the city centre. For further information, visit Iarnróad Eireann (Irish Rail).

By Tram
The Dublin new light rail system, often described as a tram system, **the Luas**, consists of two interconnecting lines; the Red Line links the Docklands and city centre with the south-western suburbs of Tallaght and Saggart, while the **Green Line** connects northern inner city suburbs and the main city centre with suburbs to the south of the city including Sandyford and Brides Glen. Together these lines comprise a total 67 stations and 44.5 kilometres (27.7 mi) of track.

General Information

By Bus

Dublin is served by a network of nearly 200 bus routes which cover the city and suburbs. The majority of these are provided by Dublin Bus, with a modest number having been transferred to Go Ahead Ireland in 2018, but a number of smaller companies also operate. Fares are generally calculated on a stage system based on distance travelled. There are several different levels of fares, which apply on most services. A "Real Time Passenger Information" system was introduced at Dublin Bus bus stops in 2012. Electronically displayed signs relay information about the time of the next bus' arrival based on its GPS determined position. The National Transport Authority is responsible for integration of bus and rail services in Dublin and has been involved in introducing a pre-paid smart card, called a Leap card, which can be used on all of Dublin's public transport services.

Dublin Bus provides a range of services to and from the Belfield campus. See the Dublin Bus UCD interactive map

Bus Éireann provides a nationwide bus service with most major areas having a regular link to Dublin. The majority of Dublin services terminate in Busáras (Central Bus Station, Dublin) from where it is a short walk to O'Connell Street for connecting buses to UCD. Several Bus Éireann services from the Greater Dublin area directly serve the UCD Belfield Campus during morning peak times.

Aircoach operates a bus service from Dublin Airport to Leopardstown/ Sandyford/Stillorgan which passes UCD.

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

ISC'2022 VIRTUAL PARTICIPATION AND PRESENTATION

As stated on page 3 because of the fact that there are still some COVID pandemic travel restrictions, some speakers will present online. Therefore, we are opening up a virtual environment for the ISC'2022 presentations using the ZOOM software: https://zoom.us/

You can download the software from: https://zoom.us/download

3. Conference Login info

Each registrant will receive a **name login** upon registration. **The login is personal and non-transferrable and can only be your name. Company logins are NOT allowed. Non-regular logins will be removed from the online meetings.**

4. Badges

Each registrant will receive a name badge upon registration. The badge must be worn in order to be admitted to the technical sessions, lunches and social event.

5. Tickets

Extra tickets for the social event and lunches are available from the Registration desk. (**at conference prices**)

Price: (or equivalent in another currency) for extra tickets. All participants will be issued with tickets for lunch and the conference dinner. **Or just the badge will apply.**

Extra conference dinner	**€ 60**
Extra lunch ticket	**€ 25**

6. Registration

The ISC'2022 Registration Desk will be open for information and registration in front of meeting room B004, School of Computer Science, ground floor.

Wednesday, June 1.....12.00 p.m. to 17.00 p.m.
Thursday, June 2 .....8.30 a.m. to 15.30 p. m.
Friday, June 3 ..... 8.30 a.m. to 12.00 p.m.

7. Conference Proceedings

Each electronic paid registrant will be provided with an electronic copy of the Conference Proceedings. Fully paid onsite participants will be provided with a printed copy of the Conference Proceedings. **This is NOT applicable to students who are not authors and who have not fully registered.**
(Extra electronic or printed copies are available after **ISC'2022**)

Price: (or equivalent in another currency) for an extra copy

Printed ISC'2022 Proceedings	**€ 40 (plus 30% shipping costs if shipped)**

Other Proceedings can be ordered from the EUROSIS website.

General Information

8. Meeting Room

The **ISC'2022** meeting room is room **B004, School of Computer Science, ground floor (opposite O'Brien's Science building), (C6 on the map, posted further in this programme)** Directions to the room will be signposted.

9. Internet Connection

There will be WIFI at the conference site. Participants are advised to log in using their EDUROAM account.

10. Need Help?

Please contact EUROSIS at the desk in front of the meeting room for your questions

11. Social Event and Lunches

All registrants are invited:

To the **Coffee breaks** and **Lunches** for 2 1/2 days
At the **Café Club (Ground Floor)** at **UCD University Club**
https://www.ucd.ie/universityclub/clubdining/clubcafe/

and the
Conference Dinner on Thursday the 2nd of June at 19.00 p.m. at **UCD University Club (1st floor)**.
(https://www.ucd.ie/universityclub/clubdining/clubrestaurant/)

UCD University Club
UCD, Belfield, Dublin
Ireland
Tel: +353 1 716 2826

12. Room Legend

The meeting room will be designated **as B004**.

13. Best Paper Award

During the conference the papers, which were accepted as **extended** papers will be judged by the committee and conference participants in order to choose the best paper of the **ISC'2022** conference.

General Information

The best paper author of the conference receives a certificate and a free registration to any EUROSIS event held within 2 years **after receiving the best paper award. This** registration waiver **is only** VALID FOR 2 YEARS AFTER RECEIPT AND FOR 1 (ONE) PERSON**. In case of multiple authors, one (1) author only can use the registration waiver.**

14 Paper Legend

Each paper is designated before each paper by its number. This number has to be entered on the form for the best paper award

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL

Session Chairs are chosen on a voluntary basis by proposals by either authors or local committee members or are appointed by the Track Chairs, General Program Chair or General Conference Chair. They are responsible for their assigned session. They make sure their speakers are available, take care of the timing within the session, chair the discussion after each presentation and introduce each speaker based on the CV's given to them by the authors. **If a session chair is not available then the first author takes on the responsibility to chair** In case they chair a session featuring **extended papers**, then they are required to distribute and collect the reviews of that or those papers at the beginning and end of the session. If they have time they should also indicate in their papers the number of session participants.

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT PUBLISHED IN THE PROCEEDINGS

THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

ONLY PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD

CHECK OUT THE OTHER EUROSIS EVENTS ON OUR WEBSITE:
http://www.eurosis.org

WEDNESDAY, 1ST JUNE 2022	
12.00-17.00	REGISTRATION
13.00-13.15	OPENING SESSION WELCOME BY ELENI MANGINA GENERAL CONFERENCE CHAIR ISC'2022
13.15-14.30	KEYNOTE
	MEETING ROOM B004
	KEYNOTE ADDRESS LESSONS LEARNED IN DELIVERING 300+ MODELS BY SAEED HAJEBI
14.30-15.00	COFFEE BREAK Café Club
15.00-17.00	SESSION
	MEETING ROOM B004
	APPLIED SIMULATION METHODOLOGY
17.00	FREE EVENING

THURSDAY, 2nd JUNE 2022	
08.30-15.00	REGISTRATION
09.00-10.00	KEYNOTE
	MEETING ROOM B004
	KEYNOTE ADDRESS FROM ZERO TO SUPERSONIC, UP TO THE STRATOSPHERE: HOW FLIGHT DYNAMICS SIMULATION IS HELPING AIRBUS TO SHAPE THE FUTURE OF FLIGHT BY RODNEY RODRIGUEZ ROBLES
10.00-10.30	COFFEE BREAK Café Club
10.30-12.00	SESSION
	MEETING ROOM B004
	SIMULATION ANALYSIS OF COMPLEX SYSTEMS I
12.00-13.00	LUNCH Café Club
13.00-14.30	WORKSHOP
	MEETING ROOM B004
	VIRTUAL NUCLEAR SIMULATOR (ViNuS) IN EDUCATION BY WIM EERDEKENS AND JEROEN CEYSSENS
14.30-15.00	COFFEE BREAK Café Club
15.00-15.30	ONLINE SESSION
	MEETING ROOM B004
	SIMULATION ANALYSIS OF COMPLEX SYSTEMS II
15.30-17.30	WORKSHOP
	MEETING ROOM B004
	AREA 42 BY FELIX GARRIAU AND DRIES VANIEUWENHUYSE
19.00-22.00	CONFERENCE DINNER UCD University Club

FRIDAY, 3rd JUNE 2022	
08.30-12.00	REGISTRATION
09.00-10.00	KEYNOTE
	MEETING ROOM B004
	KEYNOTE ADDRESS TOWARDS A SCIENCE OF TRUSTWORTHY ARTIFICIAL INTELLIGENCE BY BARRY O'SULLIVAN
10.00-10.30	COFFEE BREAK Café Club
10.30-12.00	SESSION
	MEETING ROOM B004
	SIMULATION IN ENGINEERING
12.00-13.30	LUNCH Café Club
13.30-14.30	TUTORIAL
	MEETING ROOM B004
	AR LEARNING BY MATT GLOWATZ
14.30-15.00	COFFEE BREAK Café Club
15.00-17.00	WORKSHOPS
	MEETING ROOM B004
	XR4PED MEETS IRELAND - PROMOTING DIGITAL HIGHER EDUCATION BY INTRODUCING IMMERSIVE LEARNING INTO EDUCATIONAL STUDIES BY ELENI MANGINA AND FAnTASIA WORKSHOP FAIRY TATE SCIENCE AUGMENTED BY DARYA JEGORINA
17.00-17.15	SESSION
	MEETING ROOM B004
	BEST PAPER AWARD AND CLOSING SESSION

Wednesday, 1st June 2022

Registration

12.00 - 17.00

13.15 – 13.30

MEETING ROOM B004 **WELCOME**

Opening ISC'2022 and Welcome

Welcome Address

Professor Eleni Mangina, University College Dublin (UCD), School of Computer Science, Dublin, Ireland
ISC'2022, General Conference Chair

13.30 – 14.30

MEETING ROOM B004 -13.30-14.30 **KEYNOTE**

KEYNOTE SPEECH
Chair: Eleni Mangina, UCD, Dublin, Ireland

KEY_03
Lessons learned in delivering 300+ Models
Saeed Hajebi, Head of Big Data & AI at Vodafone, Dublin, Ireland

Wednesday, 1st June 2022

14.30 - 15.00
COFFEE BREAK

15.00 – 17.00

MEETING ROOM B004 -15.00-17.30 **METH**

APPLIED SIMULATION METHODOLOGY
Chair: Anca Delia Jurcut, UCD, Dublin, Ireland

SIM_LOGIS_01
Optimization of a Two-Stage Logistic System using Hybrid Filtered Beam Search Algorithm
Marwa Gam, Oussama Hayane and Dimitri Lefebvre **..... 5**

DISC_01
Continuous Victim Model for Use in Mass Casualty Incident Simulations
Mehdi Benhassine, Filip Van Utterbeeck, Ruben De Rouck, Michel Debacker Ives Hubloue and Erwin Dhondt **..... 10**

SIM_MAR_01
Optimal Survey Path for MCM Operations using Variable Length Genetic Algorithms
Damien Desmidts, Filip Van Utterbeeck, Ben Lauwens, Bart De Clerck, Taki-Eddine Harbi and Mehdi Benhassine **..... 16**

FOOD_INNOV_05
Non-Linear Modelling of Cold Plasma Reactive Species in a Model Fruit Juice and predicting their Dynamic Behaviour during Shelf Life
Sonal Chaple, Jesus Frias and Paula Bourke

17.00

FREE EVENING

Thursday, 2nd June 2022

Registration

08.30 - 15.00

09.00 – 10.00

MEETING ROOM B004 -09.00-10.00 **KEYNOTE**

KEYNOTE SPEECH
Chair: Eleni Mangina, UCD, Dublin, Ireland

KEY_02
From Zero to Supersonic, Up to the Stratosphere: How Flight Dynamics Simulation is Helping Airbus to shape the Future of Flight
Rodney Rodriguez Robles, Flight Dynamics & Control Laws Engineer, Airbus Defence and Space, Getafe, Spain

10.00 - 10.30
COFFEE BREAK Café Club

10.30 – 12.00

MEETING ROOM B004 -10.30-12.00 **SYS**

SIMULATION ANALYSIS OF COMPLEX SYSTEMS I
Chair: Abey Cambell, UCD, Dublin, Ireland

SIM_ENG_01
Computational Analysis of FRP Tapered Utility Poles
Christian Stewart, Martin Muscat, Duncan Camilleri and Brian Ellul..... **30**

SIM_TRAIN_01
The FeDiNAR System Evolved: Providing AR Experiences of Consequences of Human Actions
Alexander Atanasyan, Artem Bliznyuk, Felix Casser, Arthur Wahl and Jürgen Roßmann..... **38**

Thursday, 2nd June 2022

12.00 - 13.00
LUNCH BREAK Café Club

13.00 – 14.30

MEETING ROOM B004 -13.00-14.30 **WORK**

WORKSHOP II
Chair: Abey Cambell, UCD, Dublin, Ireland

WORK_02
Virtual Nuclear Simulator (ViNuS) in Education
Wim Eerdekens and Jeroen Ceyssens, EDM, Hasselt University, Campus Diepenbeek, Diepenbeek, Belgium

14.30 - 15.00
COFFEE BREAK Café Club

15.00 – 15.30

MEETING ROOM B004 -15.00-15.30 **SYS**

SIMULATION ANALYSIS OF COMPLEX SYSTEMS II
Chair: Abey Cambell, UCD, Dublin, Ireland

SIM_ENG_01_ONL
Statistical Optimization with an Outer Loop of Six
William Conley **23**

15.30 – 17.00

MEETING ROOM B004 - 15.30-17.00 **WORK**

WORKSHOP III
Chair: Eleni Mangina, UCD, Dublin, Ireland

Thursday, 2nd June 2022

WORK_03
AREA42
Felix Garriau and Dries Vanieuwenhuyse, AREA 42, Brussels, Belgium

19.00 - 22.00
CONFERENCE DINNER

UCD University Club
1st Floor
UCD, Belfield, Dublin
Ireland
Tel: +353 1 716 2826

Friday, 3rd June 2022

Registration

08.30 - 12.00

09.00 – 10.00

MEETING ROOM B004 - 09.00-10.00 **KEYNOTE**
KEYNOTE SPEECH
Chair: Eleni Mangina, UCD, Dublin, Ireland

KEY_01
Towards a Science of Trustworthy Artificial Intelligence
Prof. Barry O'Sullivan, Director, Insight Centre for Data Analytics School of Computer Science & IT, University College Cork, Cork, Ireland

10.00 - 10.30
COFFEE BREAK Café Club

10.30 – 12.30

MEETING ROOM B004 - 10.30-12.30 **ENG**

SIMULATION IN ENGINEERING
Chair: Matt Glowatz, UCD, Dublin, Ireland

COLLAB_01
Energy Demand Trends during COVID-19 Pandemic
Che Yeu Wan, Adamantios Bampoulas, Mohammad Saffari and Eleni Mangina **49**

AUTO_ROB_01
A Simulation-Based Method for the Correction of Positioning Errors in Robot-Guided Fused Deposition Modeling
Raphael Höfer, Gian Frederik Mewes and Alexander Fay **55**

Friday, 3rd June 2022

PROD_DES_01
Homogenization of Speed Control Path in Torque Drives of Production Machines by Means of Finite Element Analysis
Gerhard Kehl **63**

12.30 - 13.30
LUNCH BREAK Café Club

13.30 – 14.30

MEETING ROOM B004- 13.30-14.30 **TUT**
TUTORIAL
Chair: Eleni Mangina, UCD, Dublin, Ireland

TUT_01
AR Learning
Matt Glowatz, UCD, Quinn School of Business, Dublin, Ireland

14.30 - 15.00
COFFEE BREAK Café Club

15.00 – 17.00

MEETING ROOM B004 - 15.00-17.00 **WORK**
WORKSHOPS
Chair: Philippe Geril, EUROSIS-ETI, Ostend, Belgium.

Friday, 3rd June 2022

WORK_01
XR4Ped meets Ireland - Promoting Digital Higher Education by introducing Immersive Learning into Educational Studies
Professor Eleni Mangina, University College Dublin (UCD) - XR4PeD, School of Computer Science, Dublin, Ireland

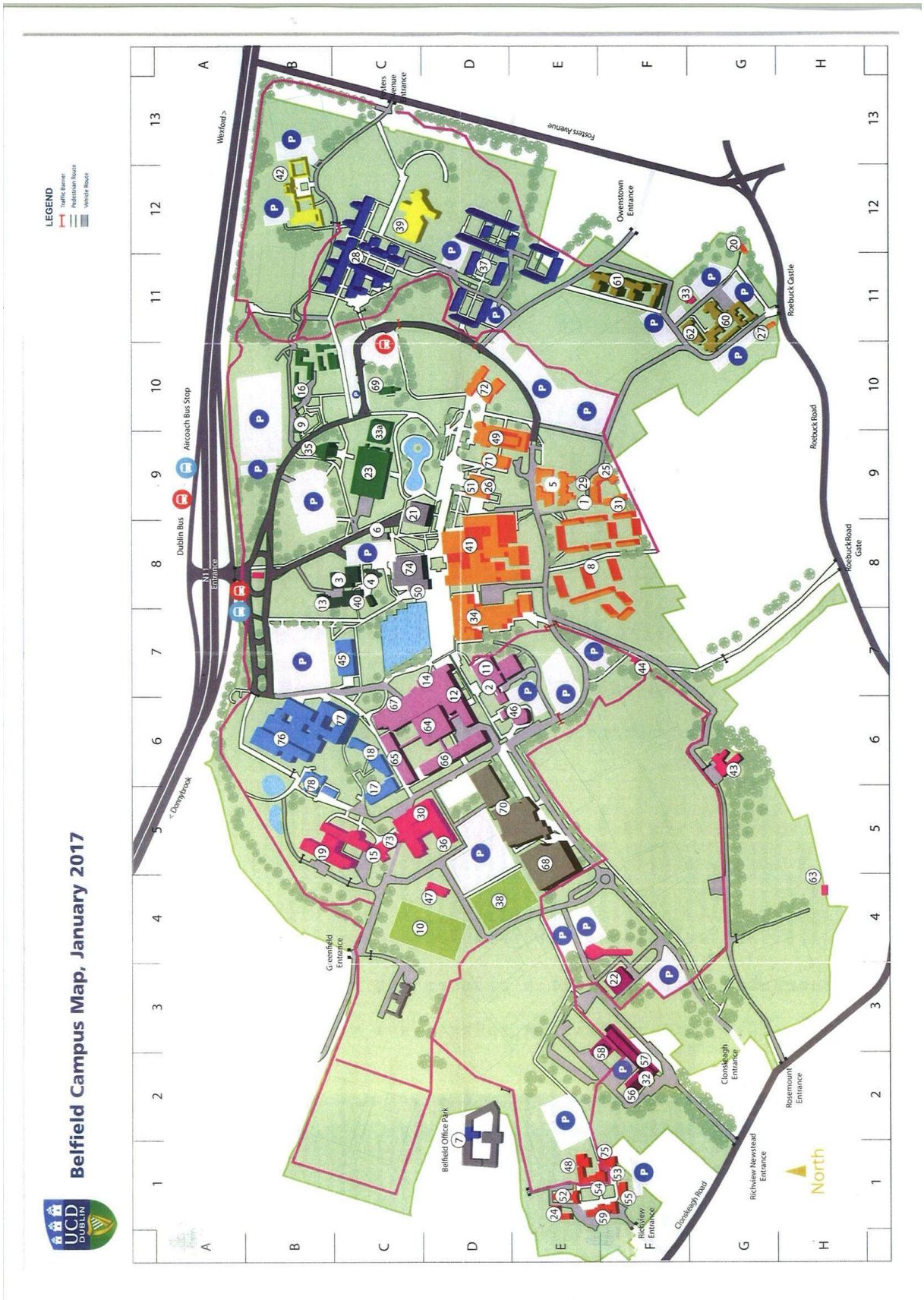
WORK_04
FAnTASIA Workshop Fairy Tale Science Augmented
Darya Jegorina, CleverBooks, UCD, Dublin, Ireland

17.00 - 17.15

MEETING ROOM B004 - 17.00-17.15 BEST PAPER
CLOSING SESSION AND BEST PAPER AWARD
Chairs: Eleni Mangina, UCD, Dublin, Ireland and Philippe Geril, EUROSIS, Ostend, Belgium

Eleni Mangina and Philippe Geril will announce the best paper for ISC'2022 and will end the event with some announcements related to ISC'2023

UCD MAP



UCD Map

Building Index

	No.	Grid
Agnes McGuire Social Work Building	1	E9
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Belfield Office Park	7	D2
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Campus Information

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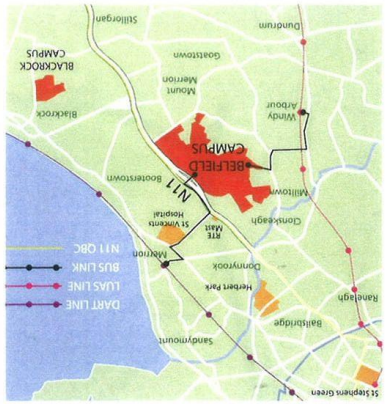
Traffic Calming Programme

Traffic Restrictions in Operation
Mon-Fri Barriers closed from: 07.00-10.30, 16.00-19.30

Gates Opening Times

N11 Entrance	24 hours
Clonskeagh Entrance, (Mon-Sun)	07.00-00.00
Owenstown Entrance (Mon-Sat)	07.00-00.00
Fosters Avenue Entrance	07.00-00.00
Richview Entrance (Mon-Fri)	07.00-00.00
(Sat)	07.00-18.00
Richview Newstead Gate (Mon-Sun)	24 hours
Roebuck Castle, Pedestrian Route	24 hours
Greenfield Park, Pedestrian Route	24 hours
Roebuck Road Gate Pedestrian Route (Mon-Fri)	07.00-18.00

Buildings under construction or in the planning stage are shown in Italics



Location Map

Belfield Campus Map

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UCD MAP

UCD Map

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At ISC'2023
May 31-June 2, 2023
University of Malta, Valletta, Malta
https://www.um.edu.mt/

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Track proposals and tutorial proposals can be sent in by September 1st, 2022 to philippe.geril@eurosis.org

ISC'2023, May 31-June 2, 2023, University of Malta, Valletta, Malta

If you are interested in hosting an ISC conference from 2024 onward, just contact EUROSIS.

ISC'2023

Conference Notes

NOTES

ISC'2022 at Conference Registration Form

Please legibly print or type and fill out completely. (Check appropriate boxes where necessary)

FIRST NAME	LAST NAME	M.I.
COMPANY OR AFFILIATION		
Mailing address (tick one): [ ] HOME [ ] BUSINESS		
STREET		
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TELEPHONE	FAX	
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1. [ ] EUROSIS member € 570 **Member Number**:_____	€_____
2. [ ] Members of Sponsor or Affiliate Society € 570	€_____
3. [ ] Non-Member Participant € 610	€_____
4. [ ] Students, **<u>who are not authors</u>** but who wish to attend the conference, or **ONE DAY PARTICIPANTS** pay: € 420	€_____
(Above registration fees include, one copy of the PROCEEDINGS, all midday meals, cocktail, refreshments, coffees and social program,) One Day Participants and Non-Author Students cannot participate in the conference dinner. – NOT APPLICABLE	
5. [ ] Conference Dinner Ticket for Companion € **60 [] Lunch Ticket** for Companion €**25** /day	€_____
6. [ ] Extra Conference Proceedings € 40 Cash and Carry	€_____
VAT Number if applicable: _____	
TOTAL AMOUNT DUE	€_____
	€_____
TOTAL AMOUNT REMITTED	€_____

Pay by **CREDIT CARD** and fill in the information below:

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Authorizing Signature:

Print Signature in CAPITALS

EUROSIS was borne out of discussions with the European Community to set up a new kind of Society, which would be project driven instead of driven by pure membership and conferences.

The aim of EUROSIS is to set up topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC.

If you would like to receive more information about EUROSIS, please contact

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