

Final Program



May 31 - June 1, 2017

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Contents

General Information	4
Badges.....	5
Best Paper Award.....	7
Conference Location	4
Conference Proceedings	5
How to get there	4
Internet Connection	6
Meeting Room	6
Need Help?.....	6
Paper Legend	7
Registration.....	6
Social Event and Lunches	7
Tickets.....	6
Quick Program Overview.....	9
Welcome Address.....	11
Scientific Program	11
Wednesday, May 31	11
Thursday, June 1	15
ISC'2018	18
Conference Location	19
Notes.....	20
Registration Form	21

General Information

1.1 Conference Location

The Conference is held at



[Polish Academy of Sciences](#),
 Palais Staszic,
 Nowy Świat 72,
 00-001 Warsaw, Poland
 📞 +48 (22) 182 61 00
 📠 +48 (22) 182 70 50
 ✉ Email: akademia@pan.pl

The meeting room for the conference is in the KOLLATAJ ROOM, NR 167, 1st Floor; up the grand stairs beyond the mezzanine and left from big foyer. Registration will start on Wednesday at 8.30 a.m. till 15.30 p.m. On Thursday it will be from 8.30 a.m. – 14.00 p.m.

1.2 Getting to Warsaw and the Polish Academy of Sciences

By Plane

When arriving by plane in Warsaw you will do so either at one of the two international airports. Namely, [Warsaw Chopin Airport](#), located just 10 kilometres from the city centre, and [Warsaw-Modlin Airport](#), located 35 kilometres to the north.

From [Warsaw Chopin Airport](#) you can take a train to the city. This is the best option to reach Warsaw City Centre. A rail link has been recently built that connects airport's Warsaw Chopin Airport railway station (built as part of Terminal A) to Warsaw city centre. The service is provided by two companies: [Szybka Kolej Miejska – SKM \(Fast Urban Railway\)](#)- Lines, S2 and S3) and [Koleje Mazowieckie \(Masovian Railways\)](#).

A taxi to the city centre from one of the following companies [ELE Taxi](#), [Sawa Taxi](#) and [Super Taxi](#) the staff of whom wear a blue uniform to indicate that they are official carriers.

A bus to the city centre. The Warsaw city center can be reached by the bus lines: 175 and 188 during the day and N32 at night. There is also an additional line 148 that provides access to Ursynów (a southern part of Warsaw) and Praga (an eastern part of Warsaw).

Bus 331 connects with underground station [Metro Wilanowska](#). The fare is PLN 4.40 one-way (and the reduced fare is 50% of that) for all the lines (day and night).

General Information

In Warsaw airport there's a new terminal for buses and coaches. It's located on the arrivals level, in front of the south pier.

From [Warsaw-Modlin Airport](#) to reach Warsaw's city centre you have three main options for transport: grab a cab or private shuttle, take a bus to the capital, or board one of the green and yellow shuttles that will take you to [Modlin Train Station](#) where you then take a train to your destination. you can take

- A train. The Koleje Mazowieckie train route is economical (19zł total for shuttle and train), though slightly time consuming (50 minutes total); buy a ticket from one of their stands located in the baggage hall or at Arrivals near the exit doors. Of the many bus transfer services, Modlin Bus is the most comfortable and convenient; tickets range from 9zł (if booked ahead online) to 33zł (at the airport - look for their stand in the baggage hall or near the Arrivals terminal exit)

- A [bus](#) . By Bus. Click the link.

A taxi. The airport's official taxi partners [Sawa Taxi](#) and [Taxi Modlin](#) offer transport to the city centre from 159zł (199zł between 24:00 and 06:00).

By Train

When coming to Warsaw by train you will most probably arrive at [Warsaw Central Station](#). The station is located in the strict city centre, at the Al. Jerozolimskie and al. Jana Pawła II crossroads. In the vicinity, there is the Centrum subway station, the Warszawa Śródmieście Commuter Train Station and a number of tram and bus stops, which makes it a perfect hub. The building has a great commercial and service offer and is adjacent to the [Złote Tarasy](#) shopping mall. There are hotels, restaurants and cafés next to the station.

By Metro

The Tram and Metro systems are run by ZTM Warsaw. You can find all relevant information of routes and charges on their [website](#).

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

1.3 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.

General Information

1.4 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.**

conference dinner:	€ 50
lunch	€ 15/lunch

1.5 Registration

The **ISC'2017** Registration Desk will be open for information and registration:
Wednesday, May 318.30 a.m. to 15.30 p. m.
Thursday, June 1.....8.30 a.m. to 14.00 p. m.

1.6 Conference Proceedings

Each fully paid registrant will be provided with a copy of the Conference Proceedings (printed format). (Extra copies are available on a **cash and carry** basis at special rates during ISC-2017)

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

ISC'2017 Proceedings	€ 35
Other Proceedings –see price list at desk	

Other Proceedings can be ordered using the forms available at the conference.

1.7 Meeting Room

The **ISC'2017** meeting room is in the **KOLLATAJ ROOM, NR.167, 1st Floor.** Directions to the rooms will be signposted.

1.8 Internet Connection

There is full free WIFI at the conference site.

1.9 Need Help?

Please see the conference desk for your questions

General Information

1.10 Social Events and Lunches

All registrants are invited:

To the **Coffee Breaks** and the **lunches** for 2 days (**Wednesday and Thursday**) which will be served at the restaurant of the Polish Academy of Sciences.

To the **Conference Dinner**



The conference dinner will be held on the Wednesday the 31st of May at 8.00 p.m. at Restaurant "[Dawne Smaki](#)" ("Ancient Tastes"), Nowy Swiat 49 (200 metres southwards from Palais Staszic).

1.11 Best Paper Award

During the conference the papers, which were accepted as extended papers will be judged by the committee and participants in order to choose the best paper of the ISC'2017 conference. The best paper candidate receives a certificate signed by the General Conference and Program Chairs and also a free registration to any EUROSIS conference within 2 years of receipt of the prize.

1.12 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

The room has an LCD projector

General Information

SESSION CHAIRPERSONS

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**

Sessions with extended papers: If you are a session chair in a session with extended papers make sure the session participants have a copy of the best paper award form and ask them to return them to you at the end of the session. After the session hand over the collected forms to Philippe Geril

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

WEDNESDAY, 31st MAY 2017	
08.30-15.30	REGISTRATION
09.00-09.15	OPENING SESSION WELCOME
09.15-10.00	MEETING ROOM KOLLATAJ
	KEYNOTE ADDRESS BY TATJANA JAWORSKA
10.00-10.30	COFFEE BREAK
10.30-12.30	SESSION
	MEETING ROOM KOLLATAJ
	SOFTWARE TOOLS AND METHODS SIMULATION
12.30-13.30	LUNCH BREAK
13.30-14.30	MEETING ROOM KOLLATAJ
	SIMULATION OPTIMIZATION
14.30-15.00	COFFEE BREAK
15.00-17.00	SESSION
	MEETING ROOM KOLLATAJ
	TUTORIAL BY DMITRY A. ZAITSEV
20.00-22.30	CONFERENCE DINNER

THURSDAY, 1ST JUNE 2017	
08.30-14.00	REGISTRATION
09.00-10.00	MEETING ROOM KOLLATAJ
	KEYNOTE ADDRESS BY DMITRY A. ZAITSEV
10.00-10.30	COFFEE BREAK
10.30-12.30	SESSION
	MEETING ROOM KOLLATAJ
	ENGINEERING SIMULATION AND VR ENVIRONMENTS
12.30-13.30	LUNCH BREAK
13.30-14.30	MEETING ROOM KOLLATAJ
	KEYNOTE ADDRESS BY MARIA GANZHA
14.30-15.00	COFFEE BREAK
15.00-16.00	SESSION
	MEETING ROOM KOLLATAJ
	TRANSPORT SIMULATION
16.00-16.15	MEETING ROOM KOLLATAJ
	CLOSING SESSION

Wednesday, 31st May 2017

HALLWAY FIRST FLOOR

Registration

08.30 - 15.30

09.00 – 09.15

MEETING ROOM

WELCOME

Opening ISC'2017 and Welcome

Welcome Address

**Jan Owsinski, Polish Academy of Sciences, Warsaw, Poland
ISC'2017, General Conference Chair**

09.15 – 10.00

MEETING ROOM -09.15-10.00

KEYNOTE

KEYNOTE SPEECH

Chair: Marcin Paprzycki, Polish Academy of Sciences, Warsaw, Poland



KEY_03

[Visual Information Retrieval - from Research to Practice](#)

**Tatjana Jaworska, Tatiana Jaworska, Systems Research
Institute, Polish Academy of Sciences, Warsaw, Poland**

Welcome

Wednesday, 31st May 2017

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

MEETING ROOM -10.30-12.30 **METH**

SOFTWARE TOOLS AND METHODS SIMULATION

Chair: Marcin Paprzycki, Polish Academy of Sciences, Warsaw, Poland

METH_09

A Toolbox for fuzzy Logic Functions Synthesis on a Choice Table

Dmitry A. Zaitsev 11

COMPLEX_01

Modelling Multi-Component predictive Systems as Petri Nets

Manuel Martin Salvador, Marcin Budka and Bogdan Gabrys 17

OPT_04

Computing Spatial Charging Needs using an Agent Based Demand Model

Daniel Krajewicz, Michael Hardinghaus, Matthias Heinrichs

and Sigrun Beige 24

MANUF_01

Linear Layout Design using the Software Tool visTABLE

Nikola Banduka, Ivan Peko, Marina Crnjac, Igor Bošnjak and Stefan Đurić 102

LOGIS_01

A stochastic linear programming Model for the reverse Supply Chain

Planning

A. Fall, J. François and R. Dupas 30

12.30 - 13.30

LUNCH BREAK

Wednesday, 31st May 2017

13.30 – 14.30

MEETING ROOM -13.30-14.30
SIMULATION OPTIMIZATION

OPT

Chair: Jan Studzinski, Polish Academy of Sciences, Warsaw, Poland

COMPLEX_03

Structural Optimization and Lay-up Design for Composite Shell like Cowling through Virtual Wind Tunnel Testing and Peak Stress Reduction
Sergey N. Shevtsov, Igor V. Zhilyaev, Paul A. Oganessian, Natalia G. Snezhina, Elena N. Lyashenko and Jiing-Kae Wu 56

COM_01

Evaluating a Simulation based PLC Processor Optimization
Johannes Kohl, Wolfgang Bauer, Dietmar Fey and Jürgen Bäsig 61

OPT_03

Optimizing Maintenance Works for Hydroelectric Power Plants by Genetic Algorithms
Vlad Florin Pîrăianu, Constantin Drăgoi, Nicolae Vasiliu and Gabriel Lazaro Pavel 51

14.30 - 15.00

COFFEE BREAK

15.00 – 17.00

MEETING ROOM - 15.00-17.00
TUTORIAL

TUT

Chair: Jan Owsinski, Polish Academy of Sciences, Warsaw, Poland



TUT_01

[Simulating Computer Networks by colored Petri Nets](#)
Dmitry A. Zaitsev, International Humanitarian University, Odessa, Ukraine

Participants who wish to take part in the tutorial can download the CPN Tools and models [here](#).

Wednesday, 31st May 2017

17.00 – 17.30

MEETING ROOM - 17.00-17.30

DATA

DATA MANAGEMENT SIMULATION

Chair: Jan Owsinski, Polish Academy of Sciences, Warsaw, Poland

METH_04

Political Polls Market Research and Business Optimization

William Conley..... 37

METH_05

Controlling Costs by taking the shortest Route to Information

William Conley..... 42

CONFERENCE DINNER – 20.00-22.30



The conference dinner will be held on the Wednesday the 31st of May at 8.00 p.m. at Restaurant "[Dawne Smaki](#)" ("Ancient Tastes"), Nowy Swiat 49 (200 metres southwards from Palais Staszic).

Thursday, 1st June 2017

HALLWAY FIRST FLOOR

Registration

08.30 - 15.30

09.00 – 10.00

MEETING ROOM - 09.00-10.00

KEYNOTE

KEYNOTE SPEECH

Chair: Krzysztof Szkatuła, Polish Academy of Sciences, Warsaw, Poland



KEY_01

[Universal Petri and Sleptsov Nets](#).....5

Dmitry A. Zaitsev, International Humanitarian University, Odessa, Ukraine

10.00 - 10.30

COFFEE BREAK

10.30 – 12.30

MEETING ROOM - 10.30-12.30

VR-ENGINE

VR AND ENGINEERING SIMULATION

Chair: Krzysztof Szkatuła, Polish Academy of Sciences, Warsaw, Poland

VR_01

Expert System based opportunistic mobile Social Network for the historical Places virtual re-construction utilizing Populace's acquainting Photos

Haifaa O. Elayyan and Philippe Geril..... 88

Sessions - Thursday

Thursday, 1st June 2017

TRAIN_01

ANYCRANE: Towards a better Port Crane Simulator for Training Operators

Rustam Abubakirovich Fayzrakhmanov, Ivan Sergeevich Polevshchikov,

Aydar Fadanisovich Khabibulin, [Filipp Igorevich Shkلياev](#) and

Ruslan R. Fayzrakhmanov 85

METH_07

Modelling mixed Liquor suspended Solid and Substrate Load on the Basis of Wastewater Quality Indices and operational Parameters of the Bioreactor: Data Mining Approach

Bartosz Szeląg and [Jan Studziński](#) 69

LAT_01

Driving Simulator Development: Phase IV – Defining Hexapod Kinematics by Driving Simulation

Valerian Croitorescu and Rafael Hariton 97

COM_03

Design of a UWB Coplanar fed Antenna for biomedical Applications

Hamza Benchakroun, Zakaria Mahlaoui, [Adnane Latif](#)

and Salgado Henrique Manuel 77

12.30 - 13.30

LUNCH BREAK

13.30 – 14.30

MEETING ROOM - 13.30-14.30

KEYNOTE

KEYNOTE SPEECH

Chair: [Janusz Kacprzyk](#), Polish Academy of Sciences, Warsaw, Poland

KEY_02

[Collaboration needs Semantic Interoperability](#)

[Maria Ganzha](#), Systems Research Institute Polish Academy of Sciences, Warsaw, Poland

Thursday, 1st June 2017

14.30 - 15.00
COFFEE BREAK

15.00 - 16.00

MEETING ROOM – 15.00-16.00 TRANS
TRANSPORT SIMULATION

Chair: Maria Ganzha, Polish Academy of Sciences, Warsaw, Poland

LAT_02

Deciding on the Pattern of Municipal Transport Network: The Case of
Park+Ride Nodes in an Agglomeration

Jan W. Owsinski, Jaroslaw Stanczak, Krzysztof Sep and Aleksy Barski

16.00 - 16.15

MEETING ROOM - 16.00-16.15 BEST PAPER
CLOSING SESSION AND BEST PAPER AWARD

Chairs: Jan Owsinski, Polish Academy of Sciences, Warsaw, Poland and Philippe Geril, EUROSIS-ETI, Ostend, Belgium

Sessions - Thursday

ISC'2018

**SEE YOU ALL
At ISC'2018
June 6-8, 2018,
[University of Azores](#), Ponta Delgada, Portugal**



**Track proposals and tutorial proposals can be sent in
by October 30th, 2017 to philippe.geril@eurosis.org**

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

Conference Site Map



METRO MAP OF WARSAW

Conference Site Map

NOTES

ISC'2017 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): <input type="checkbox"/> HOME <input type="checkbox"/> BUSINESS		
STREET		
CITY		
ZIPCODE	COUNTRY	
TELEPHONE	FAX	
E-MAIL		
DATE	SIGNATURE	
1. <input type="checkbox"/> EUROSIS member € 565 Member Number: _____		€ _____
2. <input type="checkbox"/> Members of Sponsor or Affiliate Society € 565		€ _____
3. <input type="checkbox"/> Non-Member Participant € 610		€ _____
4. <input type="checkbox"/> Students, <u>who are not authors</u> but who wish to attend the conference, or ONE DAY PARTICIPANTS pay: € 450		€ _____
(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.		
5. <input type="checkbox"/> Conference Dinner Ticket for Companion € 50 <input type="checkbox"/> Lunch Ticket for Companion € 15/day		€ _____
6. <input type="checkbox"/> Extra Conference Proceedings € 35 Cash and Carry		€ _____
VAT Number if applicable: _____		
TOTAL AMOUNT DUE		€ _____
		€ _____
TOTAL AMOUNT REMITTED		€ _____

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

Charge my (tick one): Visa Euro/Mastercard American Express

CARD NO: _____ : _____ : _____ : _____ EXP.DATE: ____ / ____

Authorizing Signature:

Print Signature in CAPITALS

eurosis

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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