

Conference Program

2024 10th International Conference on
Computers Communications and Control
ICCCC 2024

Felix & Oradea, Romania,
October 08-12, 2024

Contents

Hybrid general programme - ICCCC 2024 At a glance.....	2
Hybrid Program ICCCC 2024.....	4
Presenter's Information.....	7
Home.....	8
Scope.....	8
Submission and Publications.....	9
Topics.....	9
Chairs and Committees.....	10
Keynote speakers at ICCCC 2024.....	12
Invited speakers at ICCCC 2024	14
Program Committee.....	16
Organizing Committee.....	16
ICCCC 2024 statistics.....	17
Photo gallery previous editions ICCCC.....	19
Map of the Campus and Hotel President.....	24
Notes.....	25

HYBRID* GENERAL PROGRAMME ICCCC 2024 AT A GLANCE

Day	Bucharest	Activity / Speakers	Place
	GMT (Hours)		
Tuesday, October 8	18:00 ÷ 20:00 15:00 ÷ 17:00	Registration (Business Corner – near to Reception)	Hotel President
	20:00 ÷ 22:00 17:00 ÷ 19:00	Welcome dinner	Tavern Hotel President
Wednesday, October 9	07:30 ÷ 08:30 04:30 ÷ 05:30	Breakfast + Registration (Business Corner – near to Reception)	Restaurant 1+ Hotel President
	09:00 ÷ 09:20 06:00 ÷ 06:20	Official Opening Ceremony <i>Simona DZITAC - General Chair,</i> <i>Florin Gheorghe FILIP - PC Chair,</i> <i>Domnica DZITAC - OC Chair.</i>	Diamond Club President + on-line
	09:20 ÷ 10:00 06:20 ÷ 07:00	Keynote lecture <i>Prof. Barnabas BEDE,</i> <i>DigiPen Institute of Technology, Redmond, Washington, USA</i> Session chair: <i>Bogdana STANOJEVIĆ</i>	Diamond Club President + on-line
	10:00 ÷ 10:40 07:00 ÷ 07:40	Keynote lecture <i>Prof. Alfred BRUCKSTEIN,</i> <i>Technion, IIT, Haifa, ISRAEL</i> Session chair: <i>Attila SIMÓ</i>	Diamond Club President + on-line
	10:40 ÷ 11:20 07:40 ÷ 08:20	Keynote lecture <i>Prof. Vitomir ŠTRUC,</i> <i>University of Ljubljana, Ljubljana, SLOVENIA</i> Session chair: <i>Ioan BUCIU</i>	Diamond Club President + on-line
	11:20 ÷ 11:50 08:20 ÷ 08:50	Awarding the title of Doctor Honoris Causa of the Agora University of Oradea to Prof. Giovanna Palermo from the Università degli Studi della Campania "Luigi Vanvitelli", Italy/ Session chair: <i>Alina-Angela MANOLESCU - OC Chair.</i>	Diamond Club President + on-line
	11:50 ÷ 12:30 08:50 ÷ 09:30	A cup of champagne	Diamond Club President + on-line
	12:30 ÷ 14:30 09:30 ÷ 11:30	Oradea City Tour	Hotel President - Oradea – Hotel President (Bus)
	14:30 ÷ 15:30 11:30 ÷ 12:30	Lunch	Restaurant 1 Hotel President
	16:00 ÷ 16:40 13:00 ÷ 13:40	Invited talk <i>Prof. Razvan ANDONIE</i> <i>Central Washington University, USA</i> Session chair: <i>Domnica DZITAC</i>	Hotel President/ Room S4 + on-line
	16:40 ÷ 17:20 13:40 ÷ 14:20	Invited talk <i>Prof. Diana INKPEN,</i> <i>University of Ottawa, CANADA</i> Session chair: <i>Ioan BUCIU</i>	Hotel President/ Room S4 + on-line
	17:20 ÷ 17:40 14:20 ÷ 14:40	Coffee break	Terrace Room S4 Hotel President
	17:40 ÷ 18:20 14:40 ÷ 15:20	Invited talk <i>Prof. Karol MIKULA</i> <i>Slovak University of Technology, Bratislava, SLOVAKIA</i> Session chair: <i>Alfred BRUCKSTEIN</i>	Hotel President/ Room S4 + on-line
	18:20 ÷ 19:00 15:20 ÷ 16:00	Invited talk <i>Dr. Rajeeb DEY</i> <i>National Institute of Technology Silchar, INDIA</i> Session chair: <i>Valentina BALAS</i>	Hotel President/ Room S4 + on-line
19:30 ÷ 23:00 16:30 ÷ 20:00	International Dinner	Tavern Hotel President	

Thursday, October 10	07:30 ÷ 09:00 <i>04:30 ÷ 06:00</i>	Breakfast	Restaurant 1 Hotel President
	09:00 ÷ 11:00 <i>06:00 ÷ 08:00</i>	Parallel Sessions	Hotel President/ Rooms S1, S2 + on-line
	11:00 ÷ 11:15 <i>08:00 ÷ 08:15</i>	Coffee break	Terrace Hotel President
	11:15 ÷ 14:15 <i>08:15 ÷ 11:15</i>	Parallel Sessions	Hotel President/ Rooms S1, S2 + on-line
	14:20 ÷ 15:20 <i>11:20 ÷ 12:20</i>	Lunch	Restaurant 1 Hotel President
	15:20 ÷ 17:20 <i>12:20 ÷ 14:20</i>	Free activities (Aqua park, walks through the forest, resort)	Aqua Park Hotel President
	17:30 ÷ 19:30 <i>14:30 ÷ 16:30</i>	Participation in the opening of the 10 th edition of International Symposium "Brainstorming in Agora students' scientific circle" BACSTUD 2024	Hotel President/ Room S4
	19:30 ÷ 20:00 <i>16:30 ÷ 17:00</i>	Awarding "Ioan Dzițac Prize" & Diplomas of excellence ICCCC 2024	Restaurant 2 Hotel President
	20:00 ÷ 24:00 <i>17:00 ÷ 21:00</i>	Romanian Dinner & Romanian songs & dances	Restaurant 2 Hotel President
Friday, October 11	07:30 ÷ 09:00 <i>04:30 ÷ 06:00</i>	Breakfast	Restaurant 1 Hotel President
	09:30 ÷ 17:30 <i>06:30 ÷ 14:30</i>	Excursion or relaxing at the spa	Bears' Cave / Aqua Park President
	17:30 ÷ 19:30 <i>14:30 ÷ 16:30</i>	Visiting the Baile Felix resort	Baile Felix Spa
	19:30 ÷ 24:00 <i>16:30 ÷ 21:00</i>	Festive dinner	Hotel Amy/ Baile Felix Spa
Saturday, October 12	07:30 ÷ 11:00 <i>04:30 ÷ 08:00</i>	Breakfast	Restaurant 1 Hotel President
	→12:00 <i>→09:00</i>	Departure of participants	-

***Important:** ICCCC 2024 will take place in a hybrid system; for those present online, online entry details will be posted in due course on the conference website.

HYBRID PROGRAMME ICCCC 2024

Thursday, October 10 Room S1 (On-line)	09:00 ÷ 11:00 11:15 ÷ 14:15 <i>Bucharest</i>	Chairpersons: Alfred BRUCKSTEIN, Valentina Emilia BALAS, Ioan BUCIU	Parallel Sessions /Regular papers Topics: <i>T1: Complex control and communications systems;</i> <i>T2: Artificial Intelligence with particular emphasis on deep learning;</i> <i>T3: Soft computing with particular emphasis on fuzzy sets and systems</i>
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No.	On-site/ On-line	Authors / Affiliations	Title
1.1.	On-site	Bogdana Stanojević, Milan Stanojević <i>University of Belgrade, SERBIA</i>	<i>On approaching full fuzzy data envelopment analysis and its validation</i>
1.2.	On-site	Daniel Badulescu, Ramona Simut, Simona-Aurelia Bodog, Alina Badulescu, Ciprian Simut, Daniela Zapodeanu <i>University of Oradea, ROMANIA</i>	<i>Shaping AI-related competencies for labor market and business. A PLS-SEM approach</i>
1.3.	On-site	Srikanth Bondalapati¹, Rajeeb Dey¹, Cornel Barna², Valentina Emilia Balas² <i>¹National Institute of Technology Silchar, Assam, INDIA, ²Aurel Vlaicu University of Arad, ROMANIA</i>	<i>H[∞] - Static Output Feedback based Load Frequency Control of an Interconnected Power System with Regional Pole Placement</i>
1.4.	On-site	Shivam Gupta¹, Amit Kumar Naik², Rajeeb Dey¹, Abhinoy Kumar Singh³, Mihaela Popa^{4,5}, Alexandru Popa⁵ <i>¹National Institute of Technology Silchar, Silchar, Assam, INDIA, ²Indian Institute of Technology Indor, INDIA, ³Indian Institute of Technology Patna Bihta, INDIA, ⁴Petroleum-Gas University of Ploiesti, ROMANIA, ⁵Aurel Vlaicu University of Arad, ROMANIA</i>	<i>State-of-Charge Estimation of an Experimentally Identified Lithium-ion Cell Model using Advanced Nonlinear Filters</i>
1.5.	On-site	Bogdana-Tania Gavrilă^{1,2}, Valentina Emilia Balas^{1,2} <i>¹Petroleum-Gas University of Ploiesti, ROMANIA, ²Aurel Vlaicu University of Arad, ROMANIA</i>	<i>Mathematical models and control for an artificial pancreas</i>
1.6.	On-site	Alexuță Daniel^{1,2}, Valentina Emilia Balas^{1,2} <i>¹Petroleum-Gas University of Ploiesti, ROMANIA, ²Aurel Vlaicu University of Arad, ROMANIA</i>	<i>Water quality, parameter prediction in an aquaponic system, literature review</i>
1.7.	On-site	Germán A. Montoya¹, Carlos Lozano-Garzón¹, Carlos D. Paternina-Arboleda², Yezid Donoso¹ <i>¹Universidad de Los Andes, COLOMBIA, ²San Diego State University, USA</i>	<i>A Mathematical Optimization Model for Priority-driven IoT Services in Energy-constrained Smart Cities</i>
1.8.	On-site	Florin Timotei Avram, Dan-Ioan Țarcă, Dan Noje, Tiberiu Vesselenyi and Radu Țarcă <i>University of Oradea, ROMANIA</i>	<i>Surface roughness determination with the help of Artificial Neural Networks as enabler of metal machining process con-trolling system</i>

1.9.	On-site	Vlad Ovidiu Mihalca¹, Ovidiu Moldovan¹, IanaȚarcă², Daniel Anton¹, Dan Noje¹ ¹ University of Oradea, ROMANIA, ² Università Bocconi, Milano, ITALY	<i>Integrating deep learning in target tracking applications, as enabler of control systems</i>
1.10.	On-site	Stelian Mătase¹, Răzvan Andonie^{2,1} ¹ Transilvania University of Braşov, ROMANIA, ² Central Washington University, USA	<i>3D Generative Techniques and Visualization: A Brief Survey</i>
1.11.	On-site	Daniel Popa, Ioan Buciu University of Oradea, ROMANIA	<i>Laravel and Vue.js as tools to control IoT devices over the internet. Current state-of-the-art</i>
1.12.	On-site	Sondra Preascilla Ioana Vacarescu^{1,2}, Valentina Emilia Balas^{1,3}, Nicolae Paraschiv¹ ¹ Petroleum-Gas University of Ploiesti, ROMANIA, ² S.C. Continental Automotive Romania S.R.L., Timisoara, ROMANIA, ³ Aurel Vlaicu University of Arad, ROMANIA	<i>A Systematic Review of Quality within the Automotive Industry 4.0</i>
1.13.	On-site	Dana Rad^{1,2}, Csaba Kiss³, Gavril Rad², Nicolae Paraschiv¹, Marius Bălaş² ¹ Petroleum-Gas University of Ploiesti, ROMANIA, ² Aurel Vlaicu University of Arad, ROMANIA, ³ Hyperyon University of Bucharest, ROMANIA	<i>A multilayer perceptron neural network prediction approach to polygraph scoring</i>
1.14.	On-site	Adrian Gligor¹, Simona Dzitac², Cristian-Dragoş Dumitru¹, Attila Simo³ ¹ George Emil Palade University of Medicine, Pharmacy, Sciences and Technology of Targu Mures, ROMANIA, ² University of Oradea, ROMANIA, ³ Politehnica University of Timisoara, ROMANIA	<i>Augmented cyber-physical model for real-time smart-grid co-simulation</i>
1.15.	On-site	Giulia Lupi, Karol Mikula, Seol Ah Park Slovak University of Technology, Bratislava, SLOVAKIA	<i>Understanding macrophage motion during wound healing - From Segmentation and Tracking to Classification</i>
1.16.	On-site	Lavinia Denisia Cuc¹, Dana Rad¹, Silviu Săplăcan¹, Cleopatra Şendroi², Graziella Corina Bătcă-Dumitru², Danusia Wysocki³, Alina-Angela Manolescu⁴ ¹ Aurel Vlaicu University of Arad, ROMANIA, ² Bucharest University of Economic Studies, Bucharest, ROMANIA, ³ School of Management, University College London, London, UK, ⁴ Agora University of Oradea, Oradea, ROMANIA	<i>A hierarchical clustering analysis of the management accounting practices perceptions in Romania</i>

Thursday, October 10 Room S2 (On-site/ On-line)	09:00 ÷ 11:00 11:15 ÷ 14:00 <i>Bucharest</i>	Chairpersons: Attila SIMÓ, Bogdana STANOJEVIĆ, Mincong TANG	Parallel Sessions /Regular papers Topics: <i>T1: Complex control and communications systems;</i> <i>T2: Artificial Intelligence with particular emphasis on deep learning;</i> <i>T3: Soft computing with particular emphasis on fuzzy sets and systems</i>
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No.	On-site/ On-line	Authors / Affiliations	Title
1.1.	On-line	Lei Mei¹, Na Tang¹, Zhu Zeng², Wenwen Shi¹ <i>¹Geely University of China, CHINA,</i> <i>²Sichuan Provincial Department of Human Resources and Social Security Scientific Research Institute, CHINA</i>	<i>Artificial Intelligence Technology in Live Streaming E-commerce: Analysis of Driving Factors of Consumer Purchase Decisions</i>
1.2.	On-line	Li Yindong, Chen Yang and Wang Wang <i>Geely University of China, CHINA</i>	<i>Monitoring the growth status of rice based on hyperspectral satellite remote sensing data</i>
1.3.	On-line	Zhiyuan Li,¹ Desheng Wu², Cheng He², Xiaofeng Gan² <i>¹Geely University of China, CHINA,</i> <i>²Zhejiang Geely New Energy Commercial Vehicle Group Co., LTD, CHINA</i>	<i>Intelligent Scheduling of Automotive Stamping Workshops Based on an Enhanced Genetic Algorithm</i>
1.4.	On-line	Pengfei Lin, Yixin Cai, Huasen Wu, Jinghe Yin, Zhaxi Luorang <i>Geely University of China, CHINA</i>	<i>AI-Driven Risk Control for Health Insurance Fund Management: A Data-Driven Approach</i>
1.5.	On-line	Wei Li¹, Cheng Cheng², Qian Wang¹, Chang-Song MA¹ <i>¹Geely University of China, CHINA,</i> <i>²Yibin city Syzhou district Anju property services Co., LTD, Yibin, CHINA</i>	<i>Prediction of power battery health state based on data-driven Gaussian process regression algorithm</i>
1.6.	On-line	Wang Xiaofang¹, Wu Jialing², Chen Xin², Hou Junniang¹ <i>¹Geely University of China, CHINA,</i> <i>²Chengdu College of University of Electronic Science and Technology of China, CHINA</i>	<i>Application of VGG Network Optimized with Dilated Residual Convolution and Path Enhancement in Crack Image Segmentation</i>
1.7.	On-line	Mariana Nagy¹, João Luís de Miranda² <i>¹Aurel Vlaicu University of Arad, ROMANIA,</i> <i>²Portalegre Polytechnic University, PORTUGAL</i>	<i>Decision Making and Robust Optimization for Information Systems Oriented to Emergency Events</i>
1.8.	On-line	Nicolaie Popescu-Bodorin¹, Mariana Nagy² <i>¹Technical Civil Engineering University of Bucharest, ROMANIA,</i> <i>²Aurel Vlaicu University of Arad, ROMANIA</i>	<i>Bodorin's axiomatization of binary logic for automated boolean circuit simplification</i>
1.9.	On-line	Fuad Aleskerov¹, Anna Delakhova², Alexander Derendyaev², Alexey Myachin¹, Olga Parfenova², Daniil Tkachev¹, Akradiy Weinstock², Vyacheslav Yakuba¹, Yury Zontov¹ <i>¹HSE University, RUSSIA,</i> <i>²Institute for Information Transmission Problems of the Russian Academy of Sciences, RUSSIA</i>	<i>A man-machine system to analyze living conditions</i>

1.10.	On-line	Gaudence Nirere¹, Didacienne Mukanyiligira,¹ Eric Hitimana¹, Valentina Emilia Balas^{2,3} <i>¹University of Rwanda, AFRICA, ²Aurel Vlaicu University of Arad, ROMANIA, ³Petroleum-Gas University of Ploiesti, ROMANIA</i>	<i>Diagnostic and Screening Techniques for Autism Spectrum Disorder Leveraging Internet of Things, Artificial Intelligence, and Machine Learning Algorithms: Advantages and Limitations</i>
1.11.	On-site/ On-line	Felisa M. Córdova¹, Cecilia Montt², Leonardo Correa¹, Nicolás Lagos¹ <i>¹University San Sebastián, Santiago, CHILE, ²University Santiago de Chile, Santiago, CHILE</i>	<i>Methodology for the Analysis and Evaluation of Traffic Accidents using the Business Intelligent Systems Approach</i>
1.12.	On-site/ On-line	Víctor E. Olivares, Astrid M. Oddershede, Luis E. Quezada, Manuel Vargas <i>University of Santiago of Chile, Santiago, CHILE</i>	<i>Development of a Model for Generating Trajectories for an Autonomous Naval Vehicle Using Genetic Algorithms in MATLAB</i>
1.13.	On-line	Gastón Lefranc¹, Mario Peña-Cabrera² <i>¹Pontificia Universidad Católica de Valparaíso, CHILE, ²IIMAS, Universidad Nacional Autónoma de México, MÉXICO</i>	<i>Advanced Decision-Making Strategies and Technologies for Manufacturing: A Comprehensive Review, Case Studies and Future Research Directions</i>
1.14.	On-line	Irving García-Martínez¹, Mario Peña-Cabrera², Roman Osorio-Comparan², Gaston Lefranc³ <i>¹Ingeniería UNAM Ciudad de México, MÉXICO, ²IIMAS-UNAM Ciudad de México, MÉXICO, ³Pontificia Universidad Católica de Valparaíso, CHILE</i>	<i>DWT powerful tool, one step further than FT to detect early failures in the squirrel cage. Theoretical Approach and Implementation</i>
1.15	On-line	Alejandro Salgado, Yezid Donoso <i>Universidad de Los Andes, COLOMBIA</i>	<i>Detection of Integrity Failures in GPS Systems of Unmanned Aerial Vehicles (UAVs)</i>

Presenter's information

The time allocated to oral presentation will be following:

- Regular paper (parallel session): 15 minutes which include the time for discussion (usually 5 minutes);
- Keynote lecture / Invited paper (plenary session): 40 minutes which include the time for discussion (usually 5 minutes);
- PowerPoint (PPT or PPS) or Acrobat PDF slides (saved on Memory Flash) for presentation on a data projector are recommended for your talk at ICCCC 2024;
- Logistics, Technical tools and Supports: Laptop; Microphone; Laser Printer; Digital Copier; Colour Scanner; Video Projector; Flipchart.



2024 10th International Conference on Computers Communications and Control (ICCC)

<https://www.univagora.ro/en/conferinte/icccc/icccc2024/>

Home

Place: [Hotel President](#) (4 stars, aqua-park, spa), Băile Felix, Oradea, România

Period: October 08-12, 2024

Organizers: [Cercetare Dezvoltare Agora](#) (Research & Development Center of Agora University), [Agora University of Oradea](#) under the aegis of the [Romanian Academy](#)- Information Science and Technology Section.

Partner: [Association Cluster of Scientific Research, Innovation and European Studies from Oradea](#).

Award: The Dzițac Family (wife Simona & daughter Domnica) will award the "Ioan Dzițac Prize", founder of ICCCC, worth 500 EURO for the most appreciated scientific paper presented at ICCCC 2024 by a promising young researcher.

Dedication: This edition is dedicated in memory of Prof. Univ. Dr. Ing. Mișu-Jan Manolescu – co-organizer of 9 editions of the International Conference on Computers, Communications and Control (ICCC).



Photo Mișu-Jan Manolescu (30.09.1958 – 04.07.2024)

DHC: On the occasion of ICCCC 2024, *the title of Doctor Honoris Causa of the Agora University of Oradea* will be awarded to Prof. Giovanna Palermo from the Università degli Studi della Campania "Luigi Vanvitelli", Italy.

Scope

The International Conference on Computers Communications and Control (ICCC) has been founded in 2006 by I. Dzitac, F.G. Filip and M.-J. Manolescu and organized every even year by Agora University of Oradea, under the aegis of the Information Science and Technology Section of Romanian Academy.

The goal of this conference is to bring together international researchers, scientists in academia and industry to present and discuss in a friendly environment their latest research findings on a broad array of topics in computer networking and control.

The Program Committee is soliciting paper describing original, previously unpublished, completed research, not currently under review by another conference or journal, addressing state-of-the-art research and development in all areas related to computer networking and control.

Submission and Publications

SUBMISSION via EasyChair:

<https://easychair.org/conferences/?conf=icccc2024>

INSTRUCTION TO AUTHORS

I. Length of paper and format

Each paper must consist of a between 8 and 20 pages (one column, A4).

The papers must be prepared using Word when first submitted for evaluation (the post conference extended version of an accepted and presented paper should be in LaTeX typesetting system: [IJCCC Template \(3.0 MB\)](#))

II. Duplicate submission and plagiarism

The submissions to ICCC 2024 must represent original material.

Papers are accepted for review with the understanding that the same work has been neither submitted to, nor published in, another conference or journal.

Concurrent submission is viewed as a serious breach of ethics and, if detected, will result in immediate rejection of the submission.

The author(s) warrants that the submitted paper is based on their original work. It is the author's responsibility to obtain written permission to quote material that has been previously published in any form.

All submissions will be scanned by software for detect the similarities (maximum 30% similarities tested with Plagiarism Detection Software | iThenticate).

III. Important etape

1. The papers accepted at ICCC 2024 will be submitted to via EasyChair

(<https://easychair.org/conferences/?conf=icccc2024>) also to the address of the simona@dzitac.ro in format .word between July 22 - August 23, 2024.

2. The papers accepted/presented at ICCC 2024 will be submitted to via IJCCC:

<https://www.univagora.ro/jour/index.php/ijccc/about/submissions> also to the address of the simona@dzitac.ro in the final format requested by IJCCC, accompanied by IJCCC-2024-Copyright-Transfer-Statement & Cover_letter_template IJCCC_2024 between October 14 – November 30. *Papers accepted/presented to ICCC 2024 will undergo a final review process prior to publication as required by the IJCCC!*

PUBLICATION

The extended versions of the papers accepted and presented at ICCC 2024 will be published starting with issue 6/2024, as well as in issues 1-6/2025 (maximum 10 papers per issue with different geographical distribution of authors) of the [International Journal of Computers, Communications & Control](#), being subject to a final review process before publication.

Until 02.11.2024, authors will be notified with the distribution of papers definitively accepted for publication in IJCCC!

Topics

T1: Complex control and communications systems;

T2: Artificial Intelligence with particular emphasis on deep learning;

T3: Soft computing with particular emphasis on fuzzy sets and systems.

Chairs and Committees

General Chair



Assoc. prof. Simona DZITAC
General Chair (Oradea, Romania)
University of Oradea / Software
System Engineer & Researcher at
R&D Agora, simona@dzitac.ro

Dr. Simona Dzitac is an Associate Professor at Energy Engineering Department, Faculty of Energy Engineering and Industrial Management, University of Oradea, Romania and Software System Engineer & Researcher at R&D Agora. She received her B.Sc. in Mathematics (2000), Energy Engineering (2005), Economic Informatics (2007) and PhD in Energy Engineering (2008). Her current research interests include different aspects of reliability, modelling, simulation, quality management, IT management. She has published 11 books/courses and materials for students and more than 140 scientific papers in journals and conferences proceedings. Her research activity includes participation in 42 grants/projects. The impact of her published works are over 690 citations and h-index 14 in ISI Web of Science, h-index 15 in Scopus and h-index 18 in Google Scholar.

Program Committee Chair



Acad. Florin Gheorghe FILIP
PC Chair (Bucuresti, Romania)
Member of the Romanian Academy,
fflip@acad.ro

Acad. Florin Gheorghe Filip was born in 1947 in Bucharest, Romania. He graduated in Control Engineering at Technical University of Bucharest in 1970 and received his PhD degree from the same university in 1982. He was elected as corresponding member of the Romanian Academy in 1991 and became full member of the Academy in 1999. During 2000-2010, he was vice-president of the Romanian Academy (elected in 2000, re-elected in 2004, and 2006). In 2010, he was elected president of the Information Science and Technology section of the Academy (re-elected in 2015, and 2019). He was the managing director of National Institute for R&D in Informatics-ICI Bucharest (1991-1997). He is honorary member of the Romanian Academy of Technical Sciences, and Academy of Sciences of Republic of Moldova. He was the chair of IFAC TC 5.4 (Large-scale Complex Systems) from 2002 to 2008. His main scientific interests include optimization and control of large-scale complex/collaborative systems, decision support systems, technology management and foresight, and IT applications in the cultural sector. He authored/co-authored over 350 papers published in international journals (IFAC J Automatica, IFAC J Control Engineering Practice, Annual Reviews in Control, Computers in Industry, Large-Scale Systems, Technological and Economic Development of Economy, and so on) and contributed to volumes printed by international publishing houses (Pergamon Press, Elsevier, Kluwer, Chapman & Hall and so on). He is also the author/co-author of thirteen monographs (published by Editura Tehnică, Hermès-Lavoisier, J. Wiley & Sons, Springer) and editor/co-editor of 30 volumes of contributions (published by Editura Academiei Române, Pergamon Press, North Holland, Elsevier, IEEE Computer Society, and so on). He presented invited lectures in universities and research institutes, and plenary papers at scientific conferences in Brazil, Chile, China, France, Germany, Lithuania, Poland, Portugal, Republic of Moldova, Romania, Spain, Sweden, Tunisia, and UK. More details can be found at: http://www.academiaromana.ro/sectii/sectia14_informatica/sti_FFilip.htm

Organizing Committee Chairs



Assoc. prof. Alina_Angela MANOLESCU
OC Chair (Oradea, Romania)
Rector of Agora University of Oradea, Romania,
a.a.manolescu@gmail.com

Dr. Alina Angela Manolescu (b. 1984) is currently rector of Agora University of Oradea, Romania, associate professor at the Faculty of Economic Sciences and at the Faculty of Juridical and Administrative Sciences (starting 2008) at the same university. Between 2005 and 2008 she was lecturer at the „S. Pio” University of Roma, Italy.

She published 2 doctoral thesis, 3 books, coordinated the scientific committee of 2 books, published chapters in 2 books, and 26 scientific articles indexed in several international databases (including WOS indexed articles).

She holds a PhD. Degree in Management (awarded in 2020) with the thesis on „Talent Management in Education Organizations” and a PhD. in Law and Economics of International Relations with the thesis on „The right of human security in the region of Black Sea”, alongside of a Master Degree in Administrative Law (2007), a Bachelor Degree in Law (2006) and in Political Sciences (2005).

Besides her teaching and administrative duties at Agora University of Oradea, she is founder and manager of the European Information Centre, Europe Direct Centre (2009-2017), founder and manager of the Agora International School (since 2012), member of the Centre for preventing and fighting the transborder crime (since 2012), member of the Agora Centre for Private Law, founder of the Italian Romanian Centre of Research CONEXIS, and member of the Jean Monnet Cathedra European Public Space, and of 5 european POSDRU projects.

Additional formation: trainer of trainers, project manager, entrepreneurial competences, management in education, NLP practitioner, NLP master, NLP coach (IANLP certification), senior coach ANC.



Domnica DZITAC
OC Chair (Abu Dhabi, UAE)
Policy & Strategy Analyst,
Tamkeen / NYU Abu Dhabi
domnica.dzitic@nyu.edu

Domnica Dzitac is graduate from New York University Abu Dhabi from where she obtained a degree in Computer Science with concentrations in Applied Mathematics and Political Science. Domnica conducted meaningful research and studied in global locations such as Abu Dhabi (UAE), Paris (France), Washington D.C. (USA) and New York City (USA). Her research interests consist of applying computational tools to answer questions about human behavior, contributing to fields such as Computational Social Science, Natural Language Understanding, Machine Learning, Data Science and Behavioural Economics.

Publication Chair



Lecturer Horea OROS
Publication Chair (Oradea, Romania)
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Dr. Horea Oros (b. August 22, 1977) received his PhD in Computer Science (2009) from "Babeş Bolyai" University of Cluj-Napoca, Romania. Since 2001 he is working within the Department of Mathematics and Computer Science, Faculty of Informatics and Sciences, University of Oradea, Romania, where currently he is a lecturer. He also was a former lecturer at Agora University of Oradea for several years. He co-authored five books in the field of computer science and published twenty-one articles in several journals and proceedings of international conferences. His main research interest is in the field of cryptology and computer security.

Topical Editors:

T1: Attila Simó, Politehnica University Timisoara, Romania;

T2: Ioan Buciu, University Of Oradea, Romania;

T3: Bogdana Stanojević, University of Belgrad, Serbia.

Keynote speakers at ICCCC 2024



Prof. Barnabas BEDE,
DigiPen Institute of Technology, Redmond,
Washington, USA
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Dr. Barnabas Bede earned his Ph.D. in Mathematics from Babes-Bolyai University of Cluj-Napoca, Romania. His research interests include Machine Learning, Fuzzy Sets and Fuzzy Logic, and Modeling under Uncertainty.

He is a Professor of Mathematics at DigiPen Institute of Technology in Redmond, WA, USA, and he serves as Department Chair of Mathematics, and Program Director of the Bachelor of Science in Computer Science in Machine Learning. Before that, he held positions at the University of Rio Grande Valley, Texas, the University of Texas at El Paso, the University of Oradea Romania, and Óbuda University in Hungary.

He has published more than 100 research publications, including three research monographs. His work has received more than 6000 citations according to google scholar. Current research interests include Explainable AI, investigating connections between Deep Neural Networks and Fuzzy Systems. He serves as the President of the North American Fuzzy Information Processing Society (NAFIPS) and as conference chair for the upcoming NAFIPS 2024 International Conference on Fuzzy Systems, Soft Computing, and Explainable AI, to be held in South Padre Island, May 27-29, 2024.



Prof. Alfred BRUCKSTEIN,
Technion, Haifa, Israel
freddy@cs.technion.ac.il

Dr. Alfred M. Bruckstein holds the Ollendorff Chair in Science at the Technion, IIT, in the Department of Computer Science. A graduate of the Technion, with a BSc and an MSc in EE, he earned a PhD at Stanford University, in the EE Department, in 1984. Since then he is on faculty at the Technion, with long-term visiting professorship positions at Bell Laboratories at Murray Hill, NJ, USA (from 1987 to 2000), and at Nanayang Technological University, in Singapore (from 2009-present). His shorter visiting positions include Tsing-Hua University in Beijing, China (2002-2003), and visiting positions at Universite d'Evry, Paris France, at CEREMADE, University Dauphine, Paris, france, and Karlsruhe University in Germany. At the Technion, Professor Bruckstein served as the elected Dean of the Graduate School, from 2002 to 2005, and as the Head of the Technion Excellence Program for Undergraduates, from 2006 to 2012. He is a member of the MAA and AMS, and in 2014 he was elected Fellow of SIAM for contributions to Signal Processing, Image Analysis and Ant Robotic.



Prof. Vitomir ŠTRUC,
University of Ljubljana, Ljubljana, Slovenia
vitomir.struc@fe.uni-lj.si

Dr. Vitomir Štruc is a Full Professor at the University of Ljubljana, Slovenia. His research interests include problems related to biometrics, computer vision, image processing, and machine learning. He (co-)authored more than 150 research papers for leading international peer reviewed journals and conferences in these and related areas. Vitomir is a Senior Area Editor for the IEEE Transactions on Information Forensics and Security, a Subject Editor for Elsevier's Signal Processing and an Associate Editor for Pattern Recognition, and IET Biometrics. He serves regularly on the organizing committees of visible international conferences, including IJCB, FG, WACV and CVPR. He currently acts as a Program Chair for IEEE Face and Gesture 2024, WIFS 2024 and WACV 2025 and a Tutorial Chair for CVPR 2024. Dr. Štruc is a Senior member of the IEEE, a member of IAPR, EURASIP, Slovenia's ambassador for the European Association for Biometrics (EAB) and the former president and current executive committee member of the Slovenian Pattern Recognition Society, the Slovenian member of IAPR. Vitomir is also the current VP Technical Activities for the IEEE Biometrics Council, the secretary of the IAPR Technical Committee on Biometrics (TC4) and a member of the Supervisory Board of the EAB.

Invited speakers at ICCCC 2024



Prof. Razvan ANDONIE
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Prof. Diana INKPEN,
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diana.inkpen@uottawa.ca

Dr. Razvan Andonie received the M.S. degree in mathematics and computer science from University of Cluj-Napoca, Romania, and the Ph.D. degree from University of Bucharest, Romania. His Ph.D. advisor was Solomon Marcus, Fellow of the Romanian Academy. He is currently a Professor of Computer Science at both Central Washington University and Transilvania University of Brasov, Romania. He has published more than 130 research papers and was an invited professor at many universities. His actual research interests are computational intelligence techniques and applications, parallel/distributed computing, machine learning, and big data analytics.

Dr. Diana Inkpen is a Professor at the University of Ottawa, in the School of Electrical Engineering and Computer Science. She obtained her Ph.D. from the University of Toronto, Department of Computer Science. She has a M.Sc. and B.Eng. degree in Computer Science and Engineering from the Technical University of Cluj-Napoca, Romania. Her research is in applications of Natural Language Processing and Text Mining. She organized seven international workshops and she was a program co-chair for the 25th Canadian Conference on Artificial Intelligence (AI 2012, Toronto, ON, May 2012) conference. She is the editor-in-chief of the Computational Intelligence journal and an associate editor for the Natural Language Engineering journal. She was an invited speaker for the Applied Natural Language Processing track at the 29th Florida Artificial Intelligence Research Society Conference (FLAIRS 2016, Key Largo, FL, May 2016), for the 28th Canadian Conference on Artificial Intelligence (AI 2015, Halifax, NS, June 2015), and International Symposium on Information Management and Big Data (SimBig 2015, Cuzco, Peru, September 2015). She published a book on Natural Language Processing for Social Media (Morgan and Claypool Publishers, Synthesis Lectures on Human Language Technologies, the third edition appeared in 2020), 10 book chapters, more than 35 journal articles and more than 120 conference papers. She received many research grants, from which the majority include intensive industrial collaborations.



Prof. Karol MIKULA
Slovak University of Technology,
Bratislava, Slovakia
karol.mikula@gmail.com

Dr. Karol Mikula is a full professor of Applied mathematics at the Slovak University of Technology in Bratislava (STUBA). He made fundamental contributions to mathematical and computational modelling methods in various branches of applied science and technology, such as digital image processing and analysis in biology, medicine and remote sensing, computational fluid dynamics and physical geodesy. He published more than 200 original research papers on these topics and has received numerous invitations to foreign universities' scientific seminars and plenary and minisymposia lectures at international conferences worldwide. Karol Mikula was a principal investigator of 2 NATO grants, 4 European Union research projects and 3 projects of the European Space Agency (ESA), resulting in the world first digital reconstruction of the early vertebrate embryogenesis in space and time from 3D+time confocal microscopy videos, determination of the new world constant W_0 , a conventional value for the geoid reference potential determining the physical shape of the Earth for our epoch, and creation of the environmental software NaturaSat devoted to Natura 2000 protected sites automatic identification and monitoring from satellite images. He was the President of the Slovak Mathematical Society and was awarded the independent journalists' prize "The Scientist of the Year of the Slovak Republic" for his work on European Union projects, and the "Prize of Minister of Education, Science, Research and Sport of the Slovak Republic" for his exceptional scientific achievements. He founded and is responsible for the study program Mathematical and Computational Modelling at STUBA.



Dr. Rajeeb DEY
National Institute of Technology Silchar,
India
rajeeb.iitkgp@gmail.com

Dr. Rajeeb Dey is Associate Professor in the Department of Electrical Engineering, at National Institute of Technology Silchar, India. He has worked as a post-doctorate fellow in the Department of Automatic control, CINVESTAV-IPN at Mexico City during 2015-2016.

Dr. Dey obtained his PhD in Control System Engineering from the Department of Electrical Engineering, Jadavpur University, India in 2012. He is a recipient of post-doc fellowship from, The world Academy of Science (TWAS), Italy in 2015, National Associateship of Department of Bio-Technology in 2013, ERASMUS+ fellowship of European Union for teaching to the UAV Arad, Romania during 2018-2023. In 2020 August he has been appointed as a visiting professor by UAV, Arad, Romania.

Dr. Dey is SMIEEE'2013, FIE(I)'2021. Currently he is the Honorary Secretary of The Institution of Engineers (India) Silchar Centre, IFAC (Technical Committee) TC 3.2 Member. In the past he has served as a General Secretary, ACDOS (Advanced Control and Dynamic Optimization Society), Executive member of ACDOS, Executive Member of IEEE Joint CMS Kolkata Chapter, Executive Member (Electrical) of IE(I) Silchar Centre.

Dr Dey's current research includes Time-delay control, Control applications in Biomedical and Electrical Power System, Cyber Physical Systems, Socio-Psychological System modelling. He has guided several PhD and Master thesis, executed Government sponsored projects. Dr. Dey has published 06 books and research monographs, 60 journal and conference articles and, 01 Indian patent is granted in his name.

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ICCCC 2024 statistics

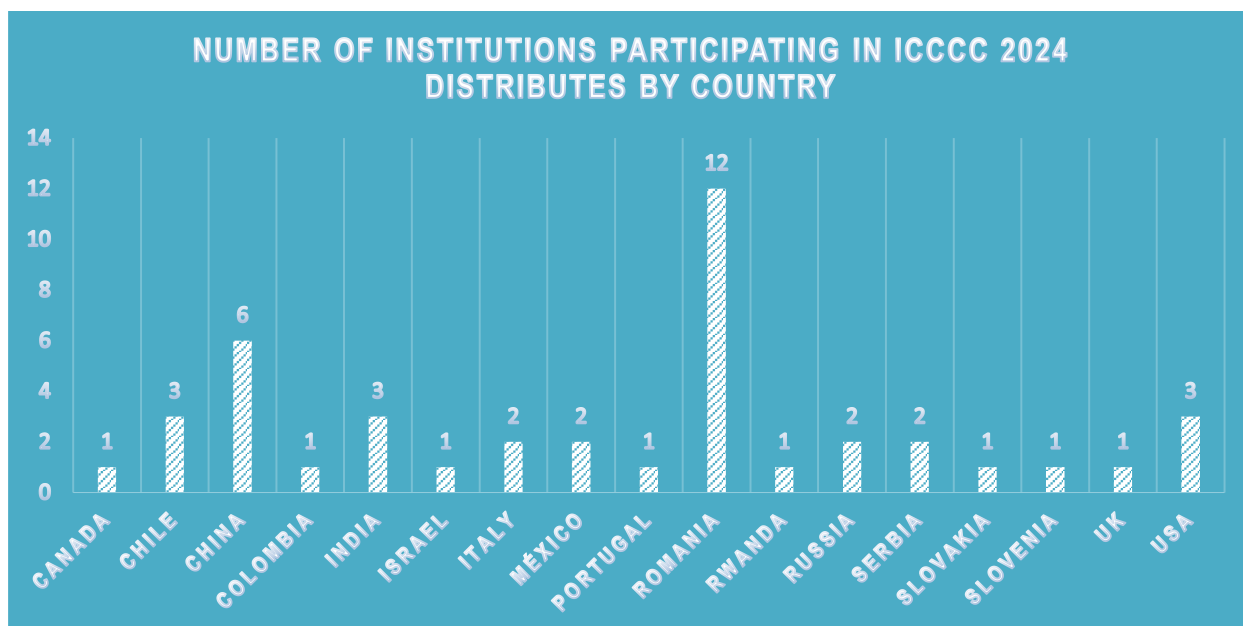


Figure 1. Number of institutions participating in ICCCC 2024 distributes by country

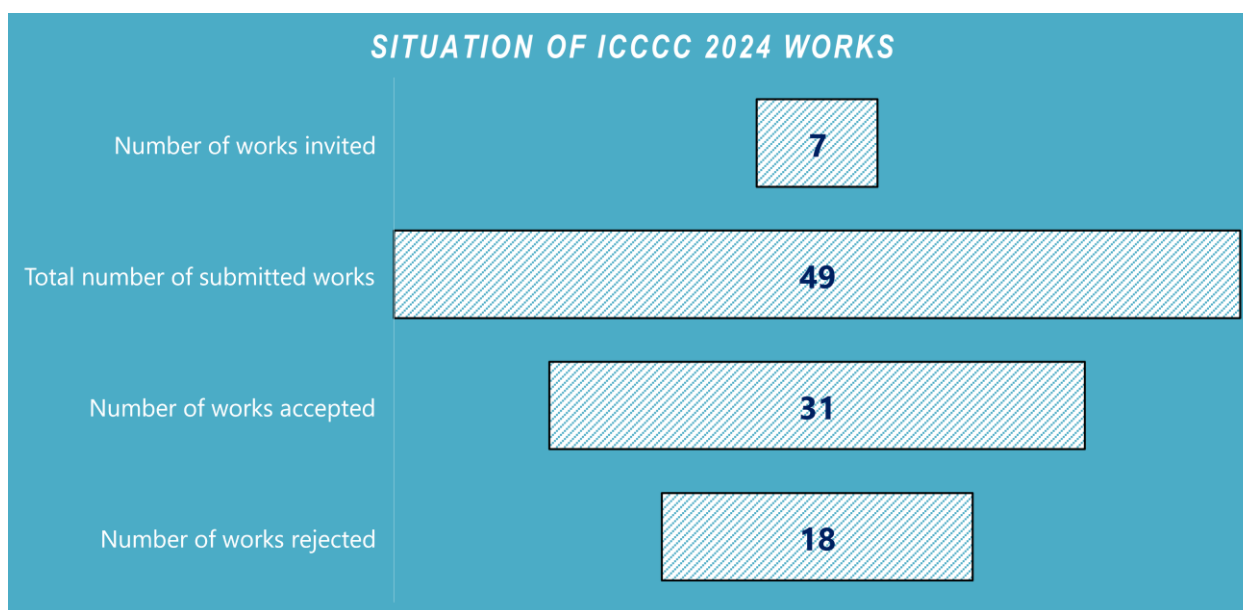


Figure 2. Situation of ICCCC 2024 works

Table 1. Affiliation of the authors of the papers invited/accepted for presentation at ICCCC 2024

No. crt	Country	Institution
1.	Canada	University of Ottawa
2.	Chile	University San Sebastián, Santiago
		University Santiago de Chile, Santiago
		Pontificia Universidad Católica de Valparaíso
3.	China	Geely University of China
		Sichuan Provincial Department of Human Resources and Social Security Scientific Research Institute
		Zhejiang Geely New Energy Commercial Vehicle Group Co., LTD
		Yibin city Syzhou district Anju property services Co., LTD, Yibin
		Chengdu College of University of Electronic Science and Technology of China
		Beijing Jiaotong University
4.	Colombia	Universidad de Los Andes
5.	India	National Institute of Technology Silchar, Assam
		Indian Institute of Technology Indor
		Indian Institute of Technology Patna Bihta
6.	Israel	Technion, IIT, Haifa
7.	Italy	Università Bocconi, Milano
		Università degli Studi della Campania "Luigi Vanvitelli"
8.	México	IIMAS, Universidad Nacional Autónoma de México
		Ingeniería UNAM Ciudad de México
9.	Portugal	Portalegre Polytechnic University
10.	România	Romanian Academy
		University of Oradea
		Aurel Vlaicu University of Arad
		Petroleum-Gas University of Ploiesti
		Agora University of Oradea
		Transilvania University of Braşov
		George Emil Palade University of Medicine, Pharmacy, Sciences and Technology of Targu Mures
		Politehnica University of Timisoara
		S.C. Continental Automotive Romania S.R.L., Timisoara
		Hyperyon University of Bucharest
		Bucharest University of Economic Studies, Bucharest
Technical Civil Engineering University of Bucharest		
11.	Russia	HSE University
		Institute for Information Transmission Problems of the Russian Academy of Sciences
12.	Rwanda	University of Rwanda, Africa
13.	Serbia	Mathematical Institute of the Serbian Academy of Sciences and Arts
		University of Belgrade
14.	Slovakia	Slovak University of Technology, Bratislava
15.	Slovenia	University of Ljubljana, Ljubljana
16.	UK	School of Management, University College London, London
17.	USA	DigiPen Institute of Technology, Redmond, Washington
		Central Washington University
		San Diego State University

Photo gallery previous editions ICCCC



ICCCC 2006



ICCCC 2008



ICCCC 2010



ICCCC 2012



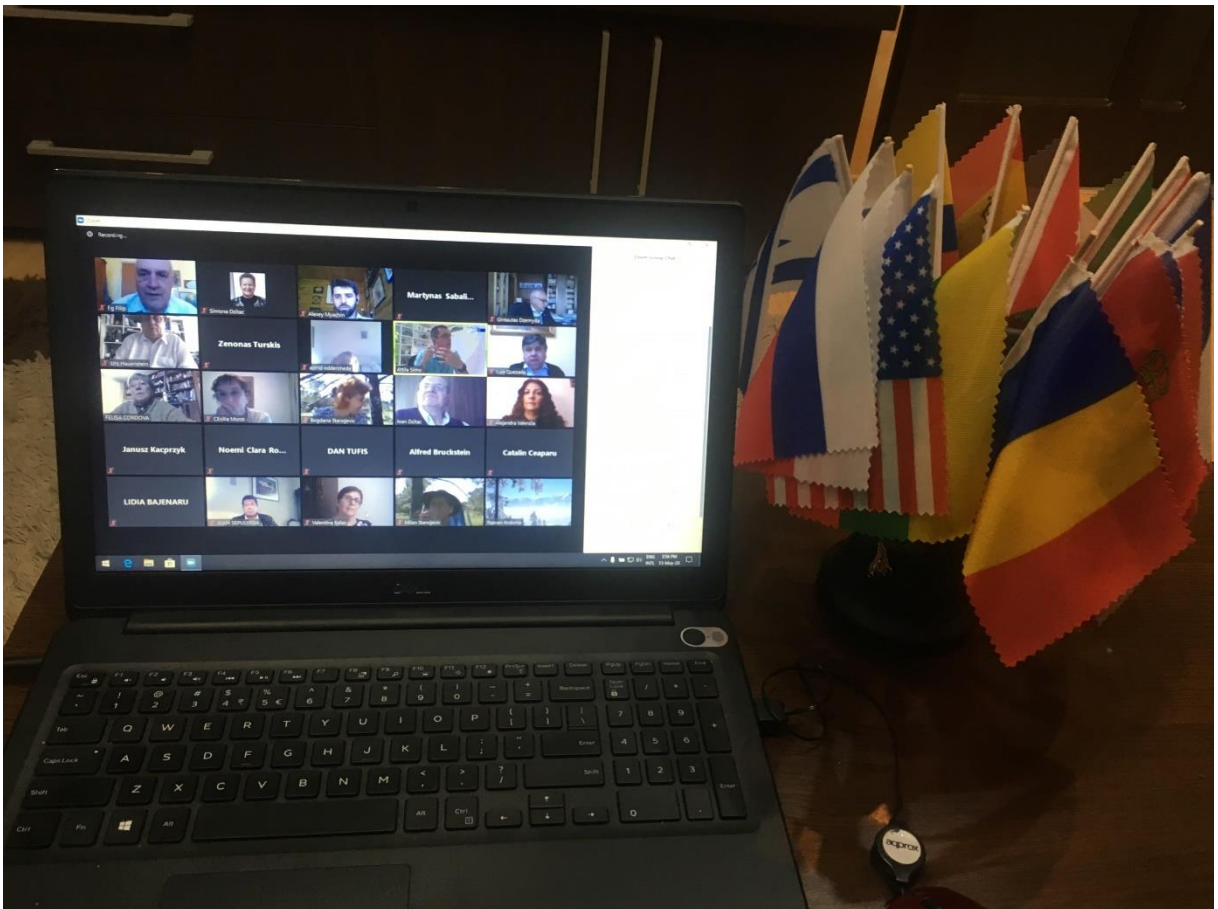
ICCCC 2014



ICCCC 2016



ICCCC 2018



ICCCC 2020



ICCCC 2022



ICCCC 2022

Map of the Campus and Hotel President

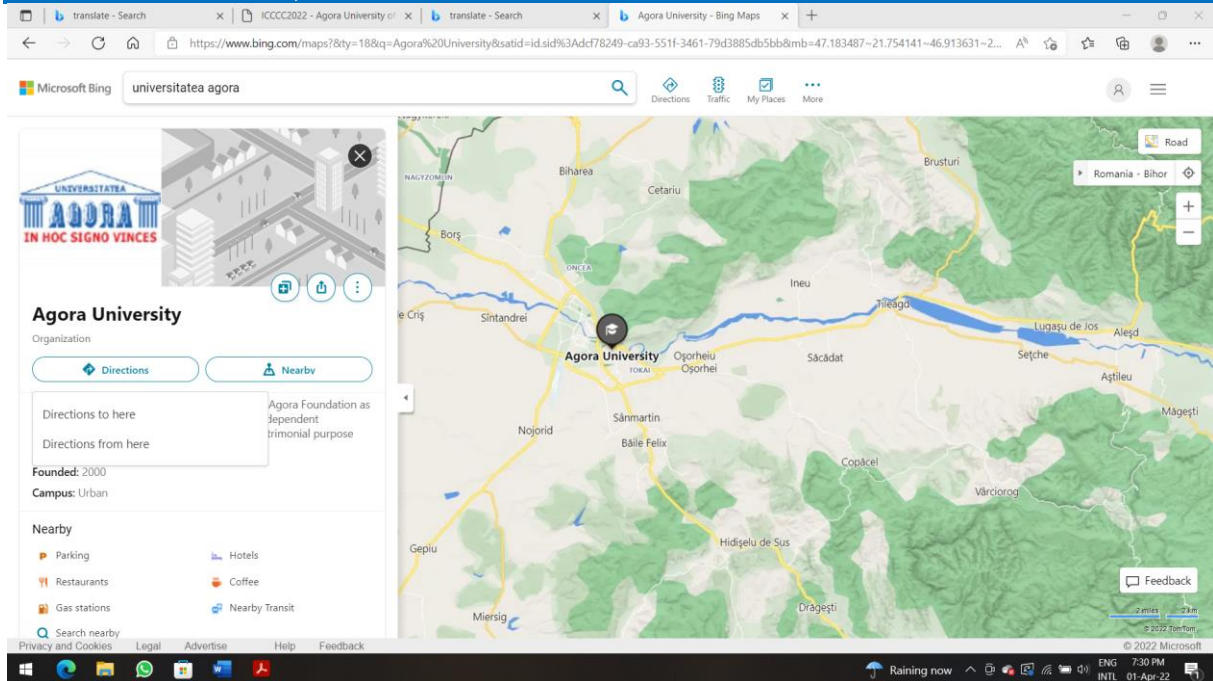
Agora University of Oradea

Piața Tineretului, no. 8

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410526 Oradea, jud. Bihor, ROMANIA

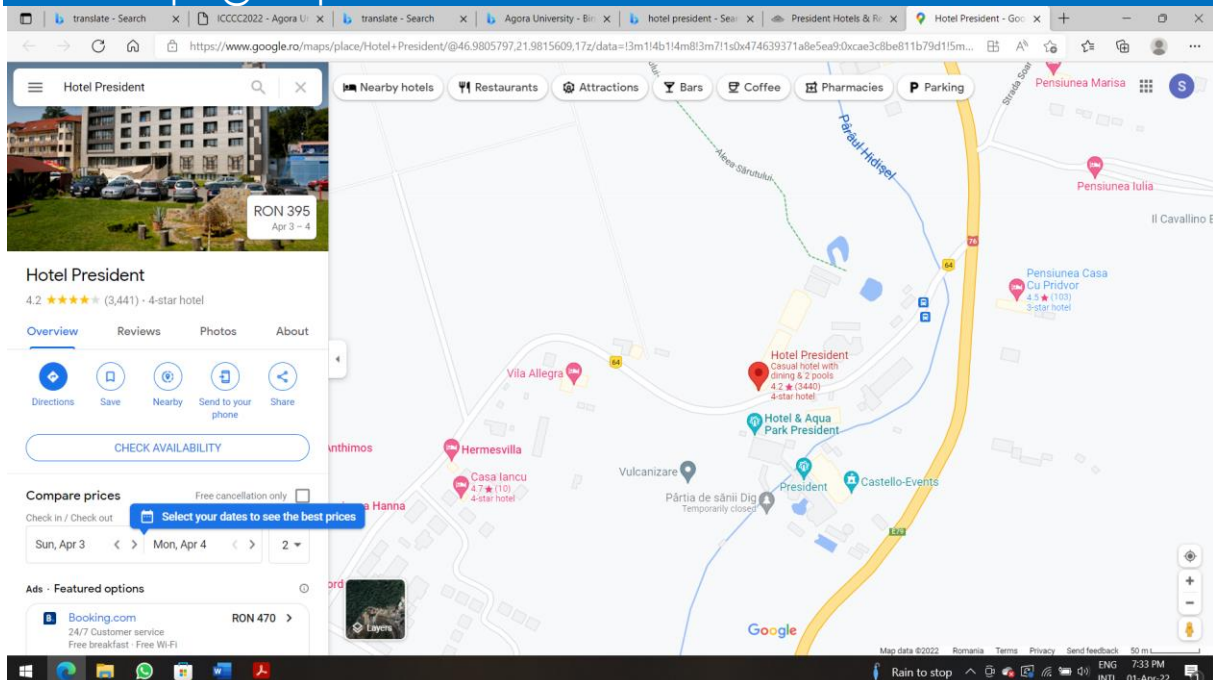
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Notes