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**Tenth International Conference on Applied Informatics**  
**Imagination, Creativity, Design, Development**  
May 21-23, 2026, Sibiu, Romania

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## PROGRAM

*International Conference on Applied Informatics – ICDD 2026*  
*organized by*  
*Faculty of Sciences, Research Center in Informatics and Information Technology*  
*Lucian Blaga University of Sibiu, Romania*

**THURSDAY, May 21th, 2026**

**NTT DATA Romania, 6<sup>th</sup> Floor, 1A Șerbota str., Sibiu**

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| 08:30-09:00 | <b>Registration</b>   |
| 09:00-09:30 | <b>Opening ceremony</b>   |
| 09:30-09:45 | <b>GSD Software&amp;Technology presentation</b><br><i>Cyber Singularity dilemma - The architecture of trust in a post-human age, Eugen Cojocaru</i>   |
| 09:45-10:00 | <b>Coffee break</b>   |
| 10:00-11:15 | <b>Papers presentation - Chair Prof. Dr. Dana Simian</b> <ol style="list-style-type: none"><li>1. <i>FitFuel: A Smart System for Personalized Nutrition Recommendations Using AI</i>, <b>Nichita Cimbriciuc, Roberto Grădinaru</b>, Vasile Alecsandri University of Bacău, Romania</li><li>2. <i>Mobile Robot Solving Underspecified Tasks through Human-Robot Dialogue</i>, <b>Bhuvana Chandra Thota, Yashaswini Suresh, Rachitha Chandra Bhanu</b>, Technical University of Applied Sciences Würzburg-Schweinfurt, Germany</li><li>3. <i>FactoryAI: A Web Platform for Manufacturing Intelligence Assisted by Artificial Intelligence</i>, <b>Luca Todoran</b>, Lucian Blaga University of Sibiu, Romania</li><li>4. <i>Design and Implementation of a Multi-User Collaborative Scene Editing System for a C++ Game Engine Using Asp.Net and Websockets</i>, <b>Serkan Sadulov, Mustafa Mustafov</b>, University of Ruse "Angel Kanchev", Bulgaria</li><li>5. <i>Contextual Pathfinding with Dynamic Weights for Procedural Game Environments</i>, <b>Claudiu Padure</b>, Lucian Blaga University of Sibiu, Romania</li></ol> |

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11:15-11:45

**Coffee break**

11:45-13:00

**Papers presentation - Chair Prof. Dr. Peter Braun**

1. *The Use of Driving Simulators in Driver Competence Training*, **Mihnea Aldea**, Transilvania University of Brasov, Romania
2. *Adversarial Perturbations as a Defense Mechanism Against Generative AI Recognition and Mimicry*, **Radu Petru Anghel**, Lucian Blaga University of Sibiu, Romania
3. *A Comparative Study of Pathfinding Algorithms and Human Intuition in Complex Maze Environments*, **Gabriel-Florin Sandulet**, Vasile Alecsandri University of Bacau, Romania
4. *FreyaVet: A Web Information System for Veterinary Practice Management*, **Diana-Patricia Săvoiu**, Lucian Blaga University of Sibiu, Romania
5. *A method for classifying mazes in order to determine an optimal path using the Greedy heuristic method*, **Andrei-Marius Țiplic, Paul-Ioan Țiplic, Andrei-Zian Gavrilă, Daria Ioana Ilisei**, Gheorghe Lazăr National College Sibiu, Romania

13:00-15:00

**Pizza break**

15:00-16:15

**Papers presentation - Chair Assoc. Prof. Dr. Nicolae Constantinescu**

1. *Cross-platform Fitness App for Chronic Diseases*, **Ana-Alexandra Popescu**, Lucian Blaga University of Sibiu, Romania
2. *Platform for Secure Corporate Fleet Management: Users and Car Management, AI-Driven Document Analysis*, **Daniel Cocu**, Transilvania University of Brasov, Romania
3. *JITO (Java Intelligent Task Organiser) - Aplicație Java privind managementul taskurilor*, **Eric-Mihai Mocean**, Samuel von Brukenthal National College Sibiu, Romania
4. *SafeSend: A Zero-Knowledge framework for secure file sending and Heuristic threat analysis*, **Constantin Nour, Ion Alexandru Firică, Federico-Petrișor Țonțu, Denis Stăvilă**, Lucian Blaga University of Sibiu, Romania
5. *Intelligent plant monitoring system based on machine learning models: approaches and recent trends*, **Maria Chivu**, Lucian Blaga University of Sibiu, Romania

16:15-16:30

**Coffee break**

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16:30-17:15

**Chair Assoc. Prof. Dr. Florin Stoica**

1. *CASSIE: AI-Driven System for Predicting Ecosystem Changes in Argentina*, **Norman Funes, Germán Buchniv, Sergio Salimbeni**, Universidad del Salvador, Argentina
2. *Market Shield: Quantitative Detection of Market Manipulation and Price Anomalies in Crypto Assets*, **Tomás Vicente, Germán Buchniv, Sergio Salimbeni**, Universidad del Salvador, Argentina
3. *Workflow-Integrated Framework for BI-RADS 4 Performance Monitoring Using Artificial Intelligence*, **Guilherme Moreno Rodrigues de Souza, João Chang Junior**, ESEG - Faculdade do Grupo Etapa Sao Paulo, Brazil

18:15-21:30

**Official Dinner – Restaurant Sonne, Sibiu**

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**FRIDAY, May 22th, 2026**

**NTT DATA Romania, 6<sup>th</sup> Floor, 1A Șerbota str., Sibiu**

09:00-09:15     **NTT presentation**

*Sound Anomaly Detection in Medicine, Constantin Constantinescu*

09:15-10:15     **Papers presentation - Chair Prof. Dr. Peter Braun**

1. *True random number generators, based on phenomena in nature*  
**Alexander Zlatanov, Teodora Daskalova, Martin Dzhurov,**  
University of Ruse "Angel Kanchev", Bulgaria
2. *A Heuristic Approach to an NP-Complete Problem: The Classroom – Subject – Teacher Timetabling Challenge,* **Radu-Constantin Zaharia, Cosmin Andrei Cojocaru,** Vasile Alecsandri University of Bacau, Romania
3. *The Over-Engineered Thermometer: Running Local Micro-LLMs to Build a Smart, But Unhelpful Desk Pet,* **Felix Husac,** Lucian Blaga University of Sibiu, Romania
4. *A Physics-Based Modeling Freeze-Thaw Resistance of Concrete with Marble Powder,* **Moutaman M. Abbas, Wael Taha Ahmed Abbas,** Transilvania University of Brasov, Romania

10:15-10:45     **Coffee break**

10:45-12:00     **Papers presentation - Chair Prof. Dr. Katalina Grigorova**

1. *From Gigapixels to Bacteria: A Data-Centric Active Learning Framework for Helicobacter pylori Detection in H&E Slides,* **Rohan Sanjay Patil, Vidya Padmanabha, Harsha Sathish,** Technical University of Applied Sciences Würzburg-Schweinfurt, Germany
2. *Procedural Pseudo-3D Rendering: A Purely Mathematical Approach to Sprite and Texture Generation,* **Dan Vraciu, Marius Anghelin,** Vasile Alecsandri University of Bacau, Romania
3. *Ensemble-Based Anomaly Detection for Adaptive Threshold Tuning in Cloud-Native Monitoring Systems,* **Andrei Priboi,**

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Transilvania University of Brasov, Romania

4. *Modeling and Anchoring Virtual Objects in Augmented Reality*, **Costin-Robert Alecu**, Lucian Blaga University of Sibiu, Romania
5. *Detectarea automată a bolilor plantelor pe baza imaginilor: o privire de ansamblu asupra metodelor actuale si aplicatiilor existente*, **Beatrice Schuller**, Lucian Blaga University of Sibiu, Romania

13:30-15:30      **Lunch break – Restaurant Impăratul Romanilor, Sibiu**

**Faculty of Sciences, Dr. I. Rațiu st., No. 5-7, 2nd Floor, Room A27**

15:30-16:45      **Papers presentation - Chair Prof. Dr. Dana Simian**

1. *LLM-Based Decision Support for Freelance Project Estimation: Reducing Pricing Uncertainty Through Structured Brief Analysis*, **Magdalena Wachowska, Wiktoria Wezgraj, Zuzanna Wojtowicz**, Krakow University of Economics, Poland
2. *GLOW: Designing an Integrated Digital Platform for Freelancer Workation Ecosystem in Rural Tourism Destinations of Indonesia*, **Nadhif Pramudya, Muhammad Salman Alghifari, Muhammad Ihsan Widodo, Anjalin Aida Faza, Muhammad Azmi Pasagama**, Universitas Islam, Indonesia
3. *From Student City to Freelancer City: A Digital Ecosystem Model for Retaining Gen Z Talent in Yogyakarta*, **Zulpadli Syarif Harahap, Danendra Farrel Adriansyah, Naura Tsani Mayantya**, Universitas Islam, Indonesia
4. *Nomadlink Granada*, **Claudia Zurita Fernandez, Marta Moreno Quiñones, Jessica Lorena Takemura Dedeon**, University of Granada, Spain
5. *FreelanceHub KG: A Digital Platform for Positioning Kragujevac as a Freelance-Friendly City*, **Aleksandra Matić, Stefan Bojković, Dušan Đurđević, Dušica Đurđević, Ljiljana Matić**, University of Kragujevac, Serbia

17:00-17:30      **Closing ceremony, conference awards and diploma presentation**

17:30-17:45      **Visit of the Faculty of Sciences**

18:00              **Sibiu sunset tour**

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**SATURDAY, May 23th, 2026**

09:30-18:30     **Trip on the route**  
Sibiu – Mediaș – Sighișoara – Sibiu (departure Thalia Parking)

18:30-19:30     **Discover more of Sibiu during the Night of Museums**  
Tour on the itinerary: The Fresco Hall in the Small Square -  
Teutsch House – Astra Library – Cynegetic Museum – “Sub Arini” Park