22nd BUSINESS PROCESS MANAGEMENT CONFERENCE

WORKSHOPS BOOKLET

2nd September 2024
Kraków, Poland

2024

Kraków, Poland

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WYŻSZA SZKOŁA BIZNESU
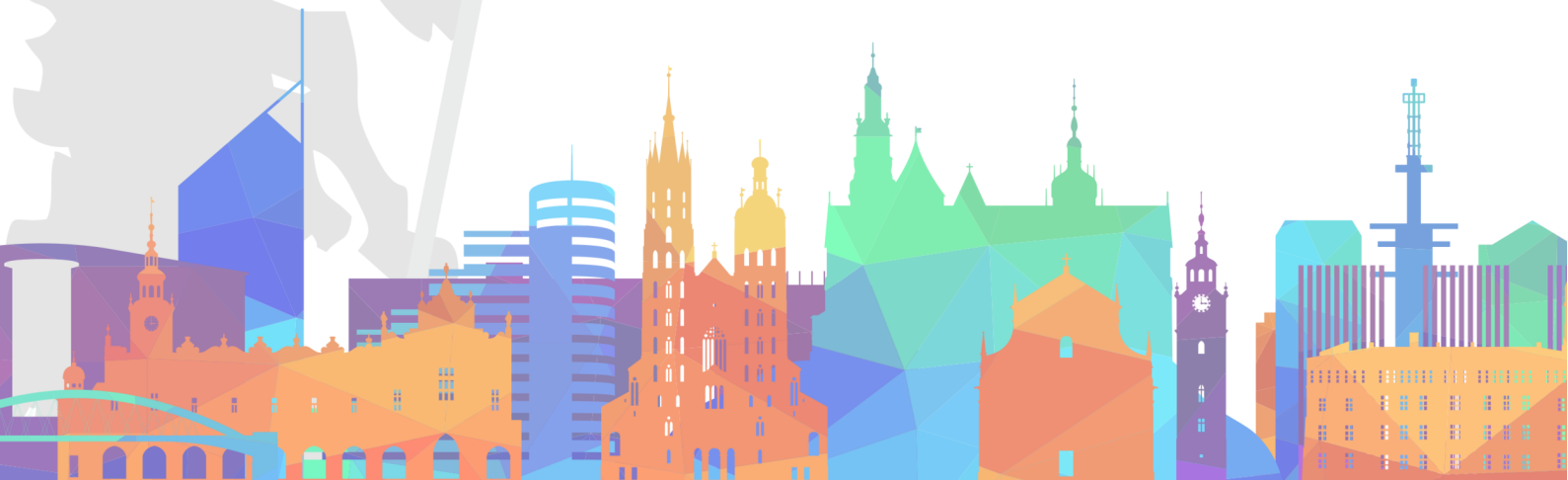NATIONAL-LOUIS UNIVERSITY

22nd Business Process Management Conference

Useful information:

- During the conference internet connection will be provided via Eduroam and AGH-Events (BPM2024) networks.
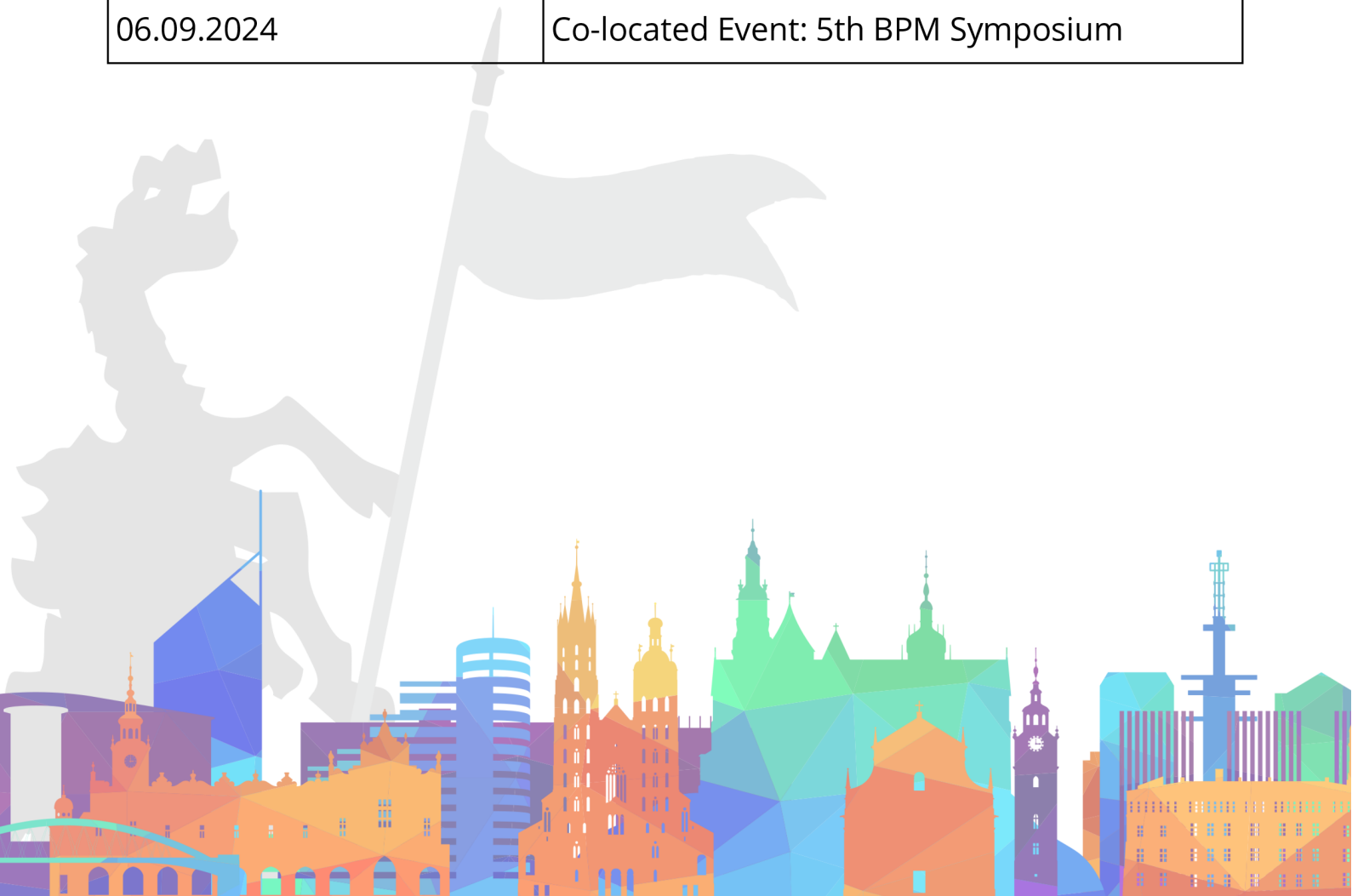- Password for BPM2024 will be printed on participant's ID card.

We acknowledge and are grateful to the sponsors and partners of BPM 2024. Without their support, such an event would not have been possible, especially to our platinum sponsor — Celonis — and our four gold sponsors: SAP Signavio, Software AG, Tecna, and Wyższa Szkoła Biznesu – National Louis University.
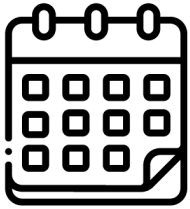
Program

Conference Schedule	
Date	**Event**
01.09.2024	Doctoral Consortium
02.09.2024	**Workshops**
03–05.09.2024	Main Conference
06.09.2024	Co-located Event: 5th BPM Symposium

Monday, September 2nd
• General plan of the workshops

Time	C7 building					
	[014]	**[015]**	**[113]**	**[114]**	**[411]**	**[412]**
08:00	Registration (U2 building)					
09:00-10:30	BPMS2	AI4BPM	BP-Meet-IoT	NLP4BPM		OBJECTS
Coffee break						
11:00-12:30	Innov8BPM	AI4BPM	BP-Meet-IoT	NLP4BPM	BPO	OBJECTS
Lunch (Krakus Restaurant, Reymonta 15, 30-059 Kraków)						
14:00-15:30	Innov8BPM	FM-BPM	ProDy	NLP4BPM	BPO	OBJECTS
Coffee break						
16:00-17:30	Innov8BPM	FM-BPM	ProDy		BPO	OBJECTS
18:00	Workshop Reception (Studio Club, Witolda Budryka 4, 30-072 Kraków)					

Workshops:

BPMS2 – Social and Human Aspects of Business Process Management

Innov8BPM – Managing Process Innovation and Value Creation in the Era of Digital Transformation

AI4BPM – Artificial Intelligence for Business Process Management

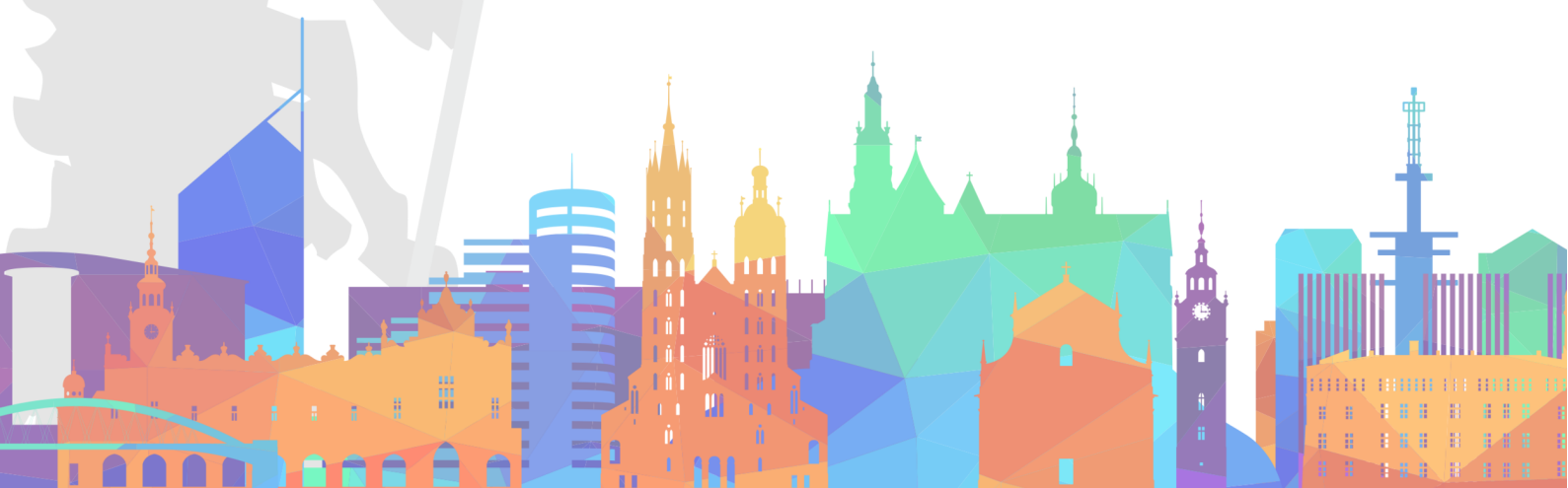FM-BPM – Formal Methods for Business Process Management

BP-Meet-IoT – Business Processes Meet the Internet-of-Things

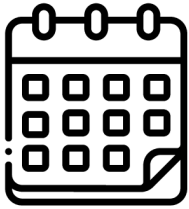ProDy – Change, Drift, and Dynamics of Organizational Processes

NLP4BPM – Natural Language Processing for Business Process Management

BPO – Business Process Optimization

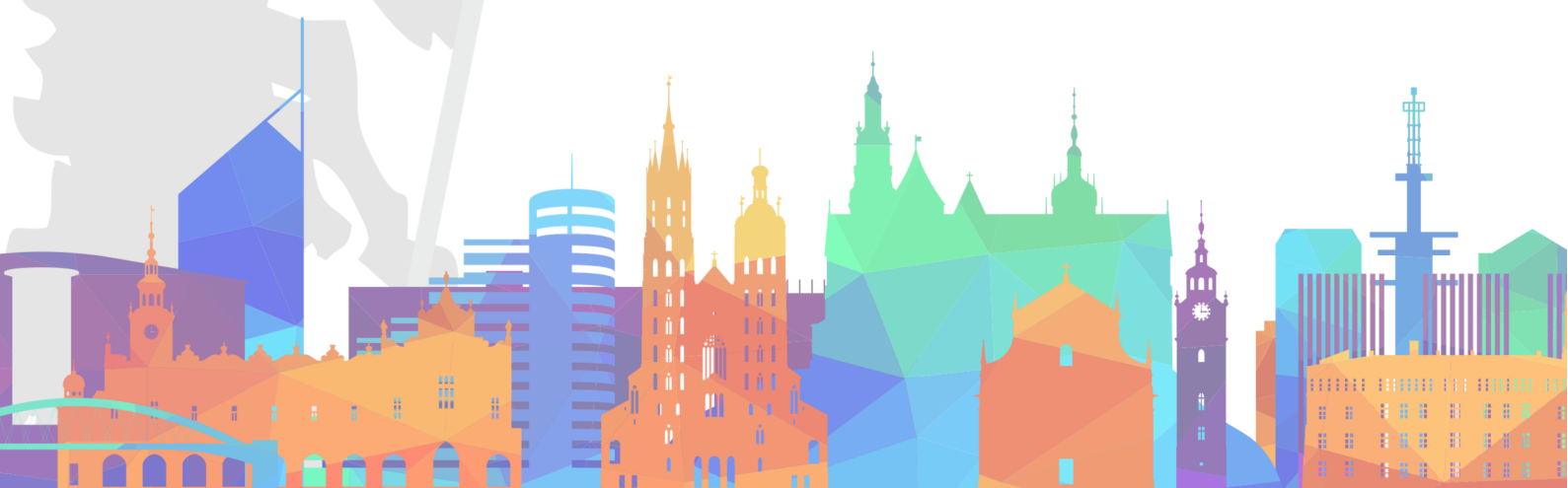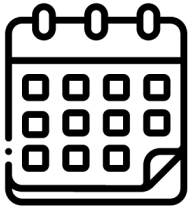OBJECTS – Object-centric Processes from A to Z

Monday, September 2nd

- **Room [014]**

Time	Workshop on Social and Human Aspects of Business Process Management (BPMS2)
09:00-10:30	**BPMS2 / Session 1**
	Opening
	Sylwia Białas and Piotr Wróbel Diversity and Inclusion in HR processes in financial sector
	Lisa Baumann, Anjo Seidel and Mathias Weske Non-visual process models: How do blind and low-vision users model business processes?
	Mari Braakman, Jos Zuijderwijk, Iris Beerepoot, Sven Lugtigheid, Thomas Martens, Maria Peeters, Eva Knies and Hajo Reijers Mining for Well-Being: The Potential of Process Mining for Evaluating Employee Well-Being

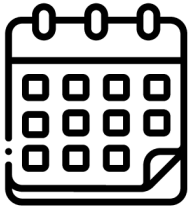| Time	Workshop on Managing Process Innovation and Value Creation in the Era of Digital Transformation (Innov8BPM)
11:00-12:30	**Innov8BPM / Session 1**
	Opening
	Michael Rosemann Keynote (60 minutes)
	Mahendrawathi Er How Can We Create an Inclusive Business Process Management?
14:00-15:30	**Innov8BPM / Session 2**
	Astria Hijriani and Marco Comuzzi Business Value of Process Mining: A Contingency Perspective
	Andrea Burattin, Ekkart Kindler, Nicholas Dyhre, Sebastian Vestrup, Francesca Zerbato and Barbara Weber Process Mining Pipelines with Controlled Sharing of Data and Algorithms
	Gerald Kremer, Luiz Ricardo Ribeiro, Till Blüher, Silvia Ines Dallavalle Padua and Rainer Stark Towards a Unified Approach: Developing a Reference Model for Digital Twins and Business Process Management in Clinical Trials
	Fabian Stiehle, Finn Klessascheck, Martin Kjäer and Ingo Weber Business in the Age of Platform Economics: Managing Decentralised Business Processes Beyond Blockchain
16:00-17:30	**Innov8BPM / Session 3**
	Interactive session "Managing Process Innovation"

Monday, September 2nd

- **Room [015]**

Time	Workshop on Artificial Intelligence for Business Process Management (AI4BPM)
09:00-10:30	**AI4BPM / Session 1**
	Opening (10 minutes)
	Marco Comuzzi Keynote (50 minutes)
	Giacomo Acitelli, Simone Agostinelli, Angelo Casciani and Andrea Marrella The Role of Trust in AI-Augmented Business Process Management Systems (30 minutes)
11:00-12:30	**AI4BPM / Session 2**
	Ali Norouzifar, Humam Kourani, Marcus Dees and Wil van der Aalst Bridging Domain Knowledge and Process Discovery Using Large Language Models (30 minutes)
	Leon Bein and Luise Pufahl Knowledge Graphs: A Key Technology for Explainable Knowledge-Aware Process Automation? (30 minutes)
	Sebastiano Dissegna and Chiara Di Francescomarino Graph Neural Networks for PPM: Review and Benchmark for Next Activity Predictions (30 minutes)

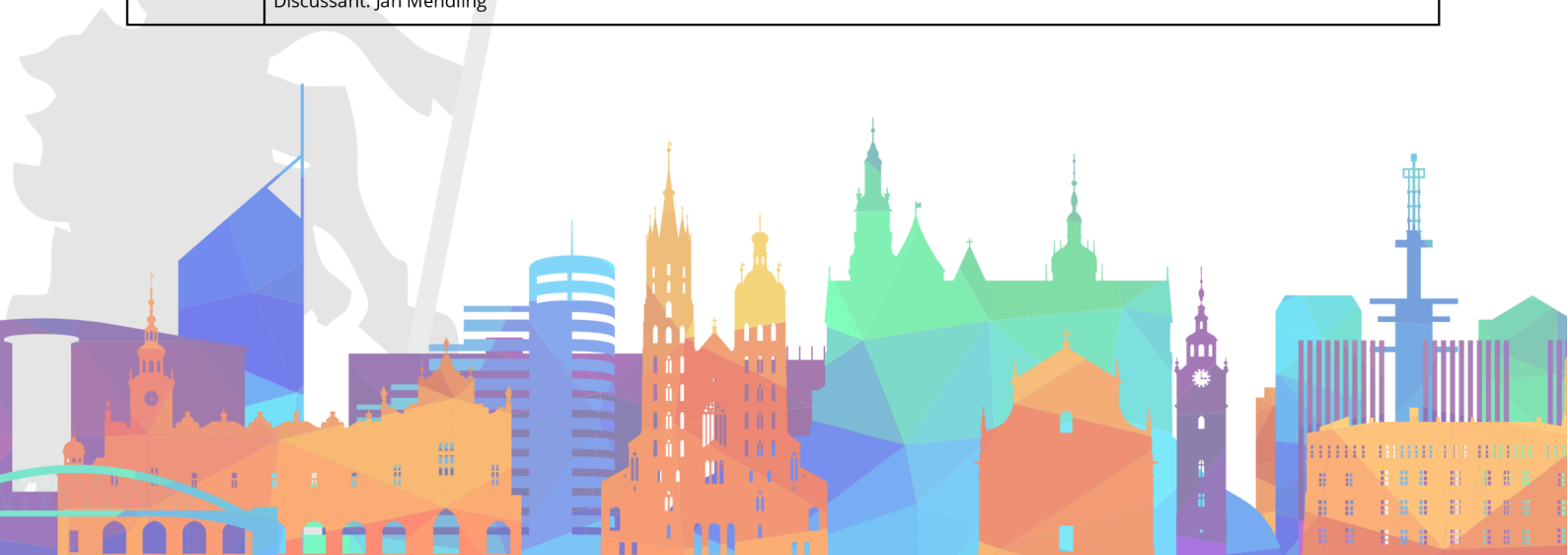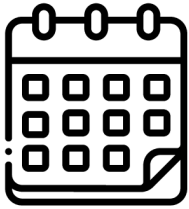| Time	Workshop on Formal Methods for Business Process Management (FM-BPM)
14:00-15:30	**FM-BPM / Session 1**
	Opening
	Interactive session "Computational Logic in BPM: Automated Reasoning, Planning, and Declarative Frameworks For Process Modeling and Analysis"
16:00-17:30	**FM-BPM / Session 2**
	Interactive session "Newly emerging formalisms: rigorous account for multi-perspective, multi-instance and collaborative aspects"

Monday, September 2nd

- **Room [113]**

Time	Workshop on Business Processes Meet the Internet-of-Things (BP-Meet-IoT)
09:00-10:30	**BP-Meet-IoT / Session 1**
	Opening (10 minutes)
	Invited keynote - Jan Mendling Visualizing Business Process Distribution over Time and Space
	Julia Andersen, Patrick Rathje and Olaf Landsiedel Check my Flow: Distributed Conformance Checking at the Source (25 minutes)
11:00-12:30	**BP-Meet-IoT / Session 2**
	Antoni Mestre, Manoli Albert, Ronny Seiger, Victoria Torres and Pedro Valderas Sustainability in and through IoT-enhanced Business Processes. Short paper (15 minutes)
	Massimo Callisto De Donato, Fabrizio Fornari and Abel Armas-Cervantes From IoT Event Logs to Human Routines via Community Detection Algorithms (25 minutes)
	Mohsen Shirali, Mohammadreza Fani Sani, Zahra Ahmadi and Estefanía Serral LLM-based event abstraction and integration for IoT-sourced logs (25 minutes)
	Marta Podobińska-Staniec, Marek Kęsek and Edyta Brzychczy Machinery activity recognition in the industry based on heterogeneous data (25 minutes)

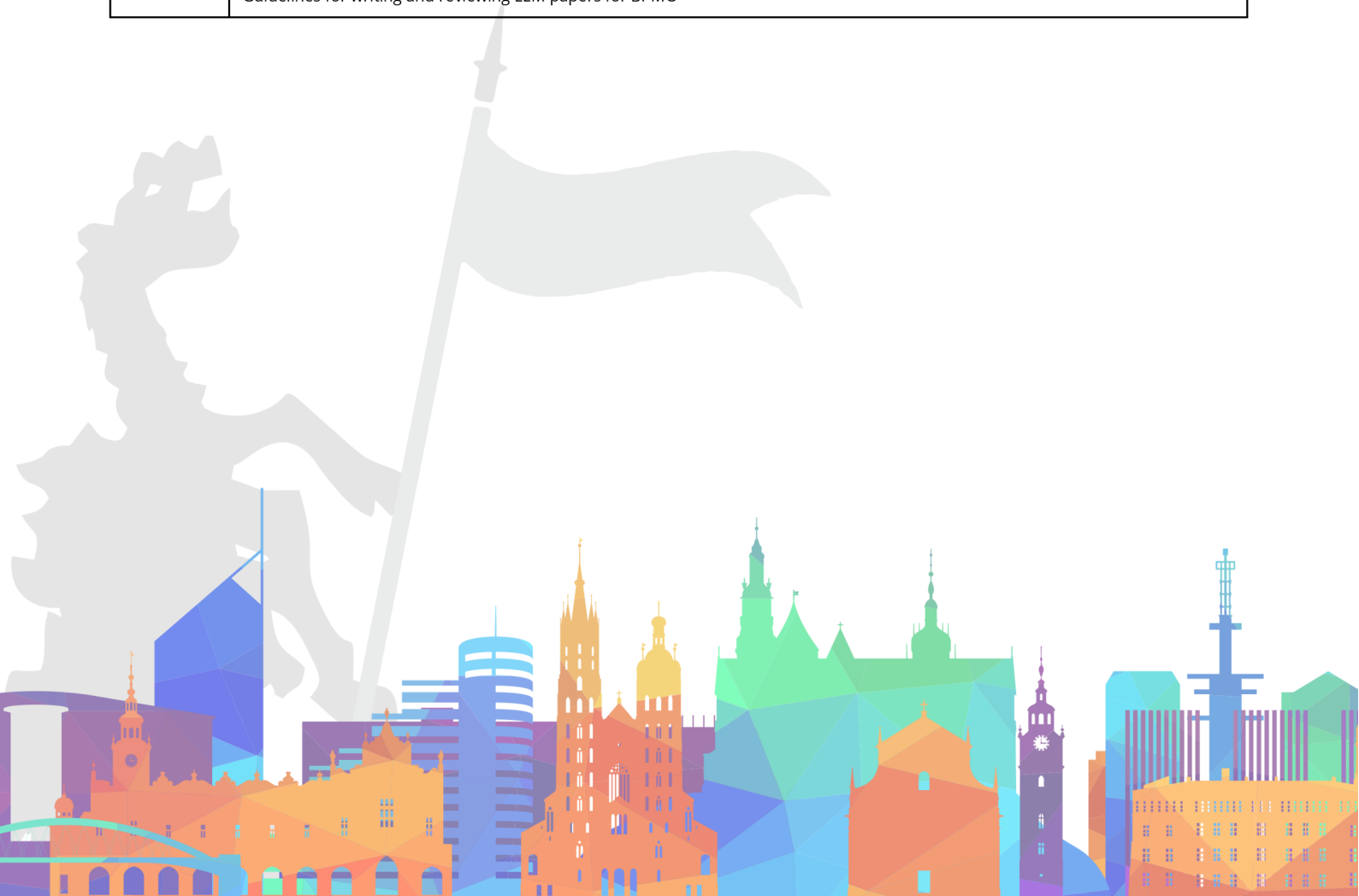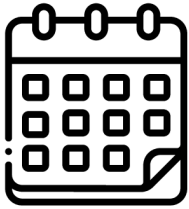| Time	Workshop on Change, Drift, and Dynamics of Organizational Processes (ProDy)
14:00-15:30	**ProDy / Session 1**
	Opening
	Maxim Vidgof First Insights into the Impact of Concept Drift on Process Complexity (short paper) Discussant: Waldemar Kremser
	Ignas Bruder From mission drift to practice drift - Theorizing drift processes in social enterprises and beyond (invited talk) Discussant: Bastian Wurm
16:00-17:30	**ProDy / Session 2**
	Bernd Löhr, Christian Bartelheimer, Frank Koehne, Sina Nordlohne, Daniel Alile and Andrees Latten Forging the LongSWORD: Exaptation and Enhancement of the SWORD Framework for Workaround Detection (full paper) Discussant: Waldemar Kremser
	Li Zhang, Julie Ryan Wolf, Alice P. Pentland and Brian T. Pentland Visualizing Routine Dynamics in Outpatient Medical Clinics with Topological Data Analysis (full paper) Discussant: Jan Mendling

Monday, September 2nd

- **Room [114]**

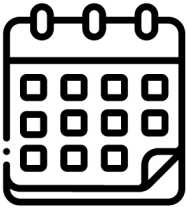| Time	Workshop on Natural Language Processing for Business Process Management (NLP4BPM)
09:00-10:30	**NLP4BPM / Session 1**
	Opening
	Julius Köpke and Aya Safan Efficient LLM-Based Conversational Process Modeling
	Marvin Voelter, Raheleh Hadian, Timotheus Kampik, Marius Breitmayer and Manfred Reichert Leveraging Generative Vision Models for Extracting Process Models from Documents
	Sandro Franzoi, Maxime Delwaulle, Julian Dyong, Jan Schaffner, Mara Burger and Jan Vom Brocke Using Large Language Models to Generate Process Knowledge from Enterprise Content
11:00-12:30	**NLP4BPM / Session 2**
	Edyta Brzychczy, Krzysztof Kluza and Leszek Szała Enhancement of Low-Level Event Abstraction with Large Language Models (LLMs)
	Alina Buss, Wolfgang Kratsch, Sebastian Johannes Schmid and Hongyang Wang ProcessLLM: A Large Language Model Specialized in the Interpretation, Analysis, and Optimization of Business Processes
	Katharina Brennig, Sascha Kaltenpoth and Oliver Müller Straight outta Logs: Can LLMs overcome preprocessing in Next Event Prediction?
	Fabiana Fournier, Lior Limonad and Inna Skarbovsky Towards a Benchmark for Causal Business Process Reasoning with LLMs
14:00-15:30	**NLP4BPM / Session 3**
	Interactive session "Guidelines for writing and reviewing LLM papers for BPMO"

Monday, September 2nd

- **Room [411]**

Time	Workshop on Business Process Optimization (BPO)
11:00-12:30	**BPO / Session 1**
	Opening (10 minutes)
	Keynote by Avigdor Gal Trade offs in Responsible Business Processes (60 minutes)
	Asvin Goel Ad-hoc subprocesses – The missing link between scheduling and business process modelling (20 minutes)
14:00-15:30	**BPO / Session 2**
	Zahra Sadeghibogar, Alessandro Berti, Marco Pegoraro and Wil van der Aalst Applying Process Mining on Scientific Workflows: a Case Study on High Performance Computing Data
	Stephan Fahrenkrog-Petersen Privacy-aware Scheduling & Business Process Optimization
	Jeroen Middelhuis, Riccardo Lo Bianco, Zaharah Bukhsh and Ivo Adan Learning policies for resource allocation in business processes
16:00-17:30	**BPO / Session 3**
	Matteo Di Cunzolo, Massimiliano Ronzani, Roberto Aringhieri, Chiara Di Francescomarino, Chiara Ghidini, Alberto Guastalla and Emilio Sulis Combining optimisation and predictive process monitoring for the scheduling of the interventional radiology procedures
	BPO Competition Results

Monday, September 2nd

- **Room [412]**

Time	Workshop on Object-centric Processes from A to Z (OBJECTS)
09:00-10:30	**OBJECTS / Session 1**
	Opening
	Thomas Troels Hildebrandt (TBA) Invited talk
11:00-12:30	**OBJECTS / Session 2**
	Anjo Seidel, Maximilian König and Mathias Weske Towards Object-centric BPMN Process Models (short paper)
	Maximilian König, Tom Lichtenstein, Anjo Seidel and Mathias Weske Data Objects with Variables in BPMN (short paper)
	Lisa Arnold and Manfred Reichert Coordination Process Verification for object-centric Business Processes
	Reflections
14:00-15:30	**OBJECTS / Session 3**
	Anukriti Tripathi, Ayush Raj, Himanshu H, Rohini Nandan, Ranjana Vyas and O.P. Vyas From Chaos to Clarity: Using Object Centric Process Mining to Improve Efficiency in a Requisition Management System. Case Study (short paper, ONLINE)
	Shahrzad Khayatbashi, Olaf Hartig and Amin Jalali Transforming Object-Centric Event Logs to Temporal Event Knowledge Graphs
	Alessandro Berti, Urszula Jessen, Wil M.P. van der Aalst and Dirk Fahland Explainable Object-Centric Anomaly Detection: the Role of Domain Knowledge (short paper)
	Reflections
16:00-17:30	**OBJECTS / Session 4**
	Karolin Winter Tutorial 1: Discovery of Instance Spanning Constraints and Exceptions
	Marco Montali Tutorial 2: Key modelling concerns and language constructs for object-centric processes
	Discussion and closing

Workshops Organizers

BPM 2024 Workshops Chairs	
Workshop on Formal Methods for Business Process Management	Alessandro Gianola Andrey Rivkin Claudio Di Ciccio
Workshop on Artificial Intelligence for Business Process Management	Fabrizio Maria Maggi Emilio Sulis Andrea Marrella Chiara Di Francescomarino Arik Senderovich
Workshop on Business Process Optimization	Remco Dijkman Arik Senderovich
Workshop on Business Processes Meet the Internet-of-Things	Agnes Koschmider Massimo Mecella Francesco Leotta Victoria Torres Estefanía Serral
Workshop on Social and Human Aspects of Business Process Management	Rainer Schmidt Selmin Nurcan
Workshop on Natural Language Processing for Business Process Management	Manuel Resinas Adela del Río Ortega Han van der Aa Henrik Leopold
Workshop on Object-centric processes from A to Z	Jan Martijn van der Werf Andrey Rivkin Marco Montali
Workshop on Change, Drift, and Dynamics of Organizational Processes	Bastian Wurm Jan Mendling Waldemar Kremser
Workshop on Managing Process Innovation and Value Creation in the Era of Digital Transformation	Banu Aysolmaz Amy Van Looy Marta Indulska Flavia Santoro Panagiotis Keramidis Oktay Turetken

Conference Organizers

BPM 2024 Conference Chairs	
General Chairs	Edyta Brzychczy Krzysztof Kluza
Main conference PC Chairs	Michael Rosemann Andrea Marrella Manuel Resinas Mieke Jans
Workshop Chairs	Katarzyna Gdowska Maria Teresa Gómez López Jana-Rebecca Rehse
Demonstrations & Resources Chairs	Weronika T. Adrian Laura Genga Sander J.J. Leemans
Industry Forum Chairs	Iris Beerepoot Renata Gabryelczyk Ralf Plattfaut
Blockchain Forum Chairs	Claudio Di Ciccio Walid Fdhila
RPA Forum Chairs	Simone Agostinelli Daniel Amyot Henrik Leopold
Education Forum Chairs	Katarzyna Gdowska Thomas Grisold Piotr Sliż
CEE Forum Chairs	Michal Krčál Monika Malinova Mandelburger Gregor Polančič Katarina Tomičić-Pupek
Tutorial Chairs	Maximilian Röglinger Inge van de Weerd
Doctoral Consortium Chairs	Han van der Aa Benoît Depaire Marta Indulska
Journal First Track Chairs	Chiara Di Francescomarino Felix Mannhardt
Best BPM Dissertation Award Chair	Hajo Reijers
Publicity Chairs	Marco Comuzzi Arik Senderovich Sarah Winkler
Proceedings Chair	Simon Agostinelli
Diversity & Inclusion Chairs	Artur Lesner Andrea Marrella Adela del Río Ortega

BPM 2024 Organizing Committee	
Organizing Committee Members	Edyta Brzychczy Krzysztof Kluza Katarzyna Gdowska Renata Gabryelczyk Aneta Napieraj Marta Podobińska-Staniec Emilia Męcfel
Conference Manager	Anna Smyk
Volunteers of BPM Conference	Karolina Sapko Aleksandra Łakomy Piotr Rodzinka Anna Kornatka Arkadiusz Zając Witold Buk Igor Szajer Luiza Górska Damian Józwik Martyna Małozięć Naga Venkata Lakshmi Sai Pravallika Mandavalli Wiktoria Konop Małgorzata Wójcik Tymoteusz Przeklasa Dawid Koza Oliwia Dej Wiktor Poremba Maksymilian Surdziel

AGH – Location of venues

Workshop Reception

Club Studio
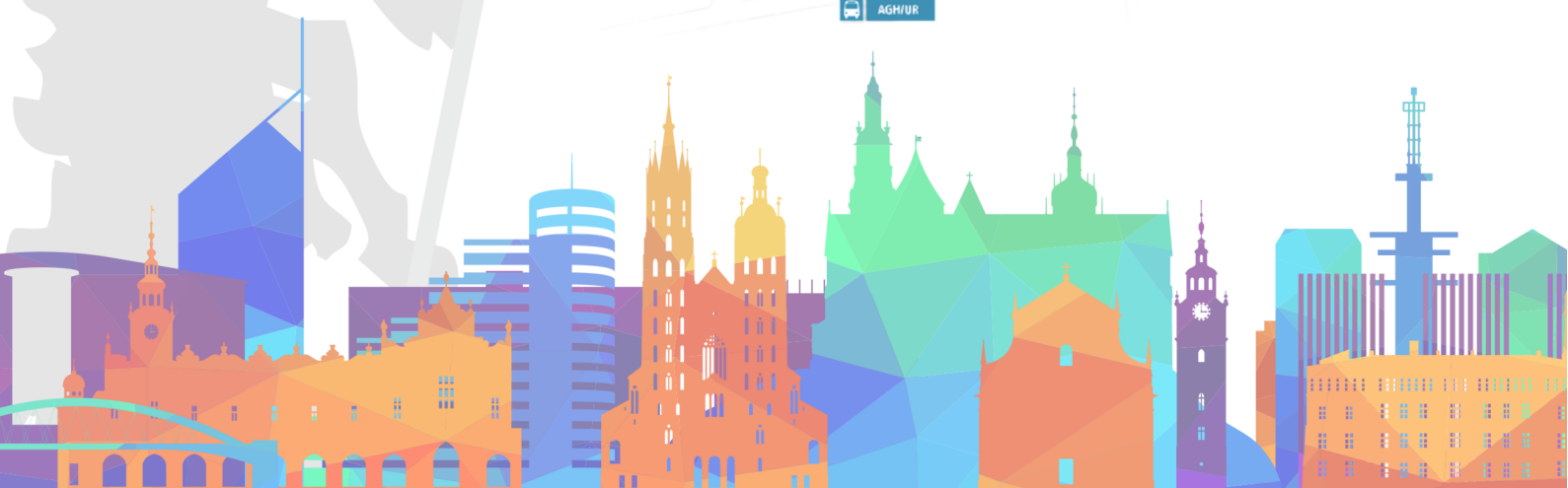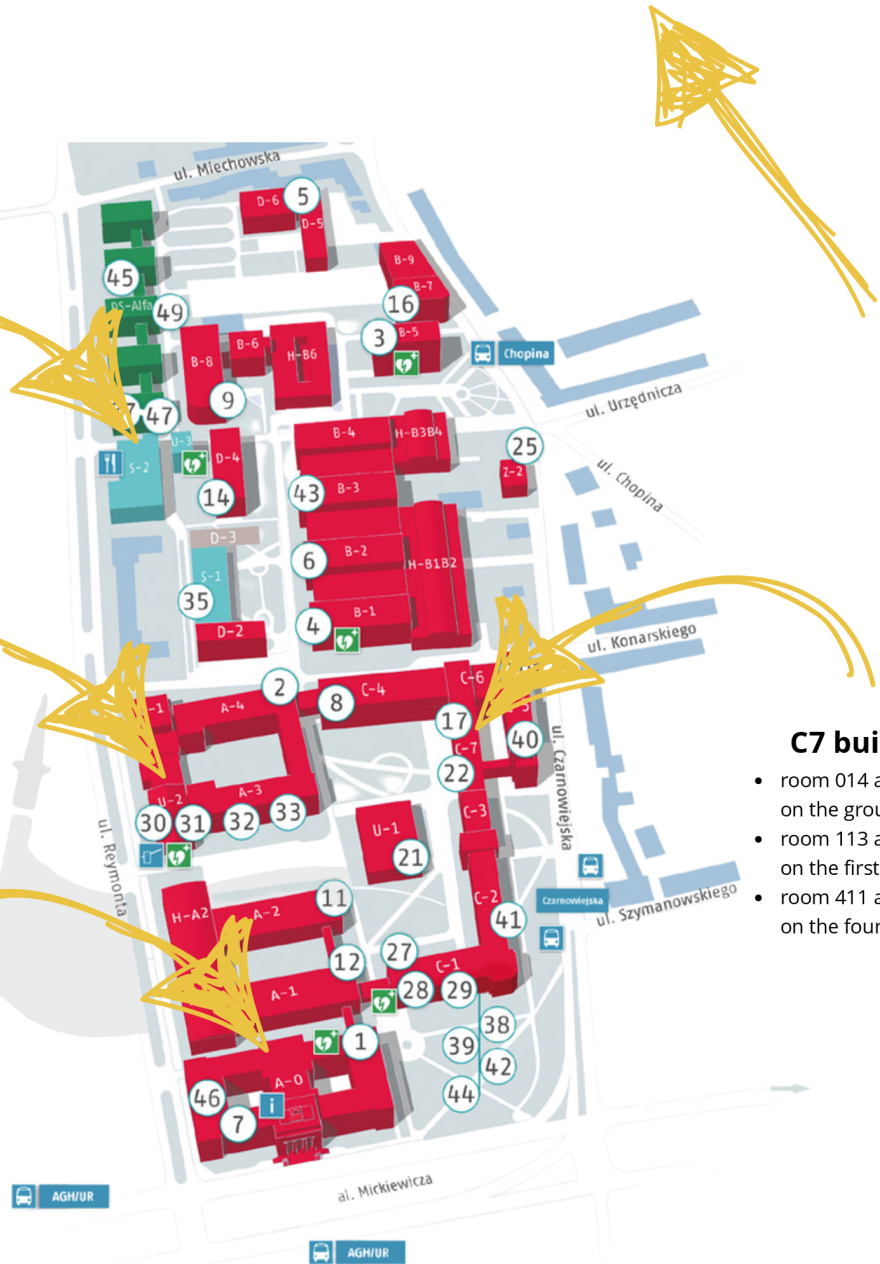address: Witolda Budryka 4,
30-072 Kraków

Lunch building
address: Reymonta 15
30-059 Kraków

U2 building
Registration

A0 building
Welcome Party

C7 building
- room 014 and 015 on the ground floor
- room 113 and 114 on the first floor
- room 411 and 412 on the fourth floor
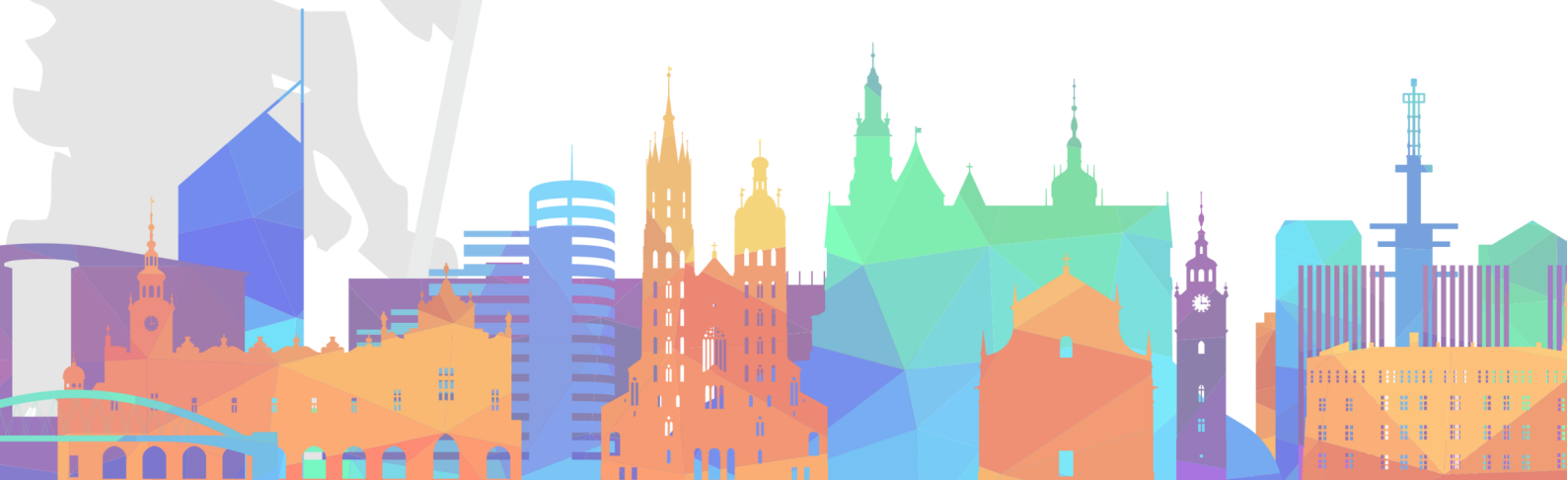
AGH – U2

Image source: AGH archive

Click and GO

address: Władysława Reymonta 7, 30-059 Kraków

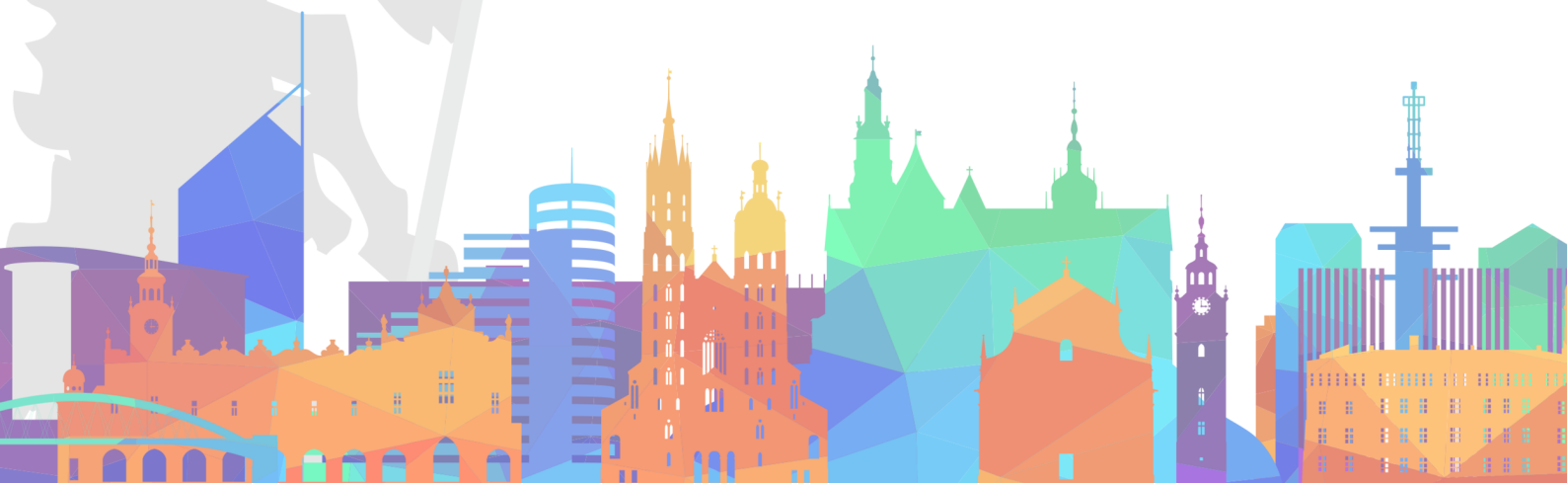Main Conference Center

AGH – C7

Image source: https://wh.agh.edu.pl/przeprowadzka-do-nowego-budynku-c7/

Click and GO

address: Czarnowiejska 36, 30-054 Kraków

Conference rooms

Club Studio

Image source: AGH archive

Click and GO
address: Witolda Budryka 4, 30-072 Kraków

The club is located on the AGH University campus, where our own university beer, called BGH, is brewed. Additionally, it serves as a performance hall catering to the needs of the student community. The Studio Club has hosted over 1,100 cultural events, including music concerts, cabaret performances, and various events organized by student groups. The Workshop Reception and Farewell Party will take place here.