

Wednesday July 10 th		
Building S - Entrance hall		
8:30 - 9:30	Registration	
Building S - ROOM A		
9:30 - 9:45	IEA/AIE 2024 Welcome	
Parallel session 1 09:50 - 11:20		
Building S		
ROOM A Optimization	ROOM B Neural Networks	ROOM C e-Applications
Paper 70 Simulation Optimization of Operating Room Schedules for Elective Surgeries Maltseva, Daria*; Chen, Stephen; Whyne, Cari; Lex, Johnathan R.; Abbas, Aazad	Paper 54 Formal Verification of Neural Networks: A "Step Zero" Approach for Vehicle Detection Guidotti, Dario*; Pandolfo, Laura; Pulina, Luca	Paper 27 A method for Integrating of Knowledge model and Functional component and Application in Intelligent Problems Solver Tran, Nha Phong; Nguyen, Hien D.*; Nguyen, Diem; Tran, Dung; Huynh, Anh; Le, Tu
Paper 79 Towards Eco-Friendly Multi-Compartment Transportation: A New Bi-Objective Iterated Local Search Framework OUERTANI, Nasreddine*; NAIT SIDI MOH, Ahmed	Paper 72 Deep Residual Networks for Pigmented Skin Lesions Diagnosis Nguyen, Thanh-Hai; Ha, Chau Ngoc; Thi Pham, Linh Thuy*; Pham, Thi Ngoc Diem; Tran, Thanh-Dien	Paper 29 A sparse binary data clustering method for transaction data Kuo, R. J.*; Fan, Chia-Jung; Nguyen, Thi Phuong Quyen
Paper 16 Time Heals Unfairness: Efficient Dynamic Routing at an Autonomous Society WEI, SIJIA*; Yishen, Peng	Paper 15 PPG-based Heart Rate Estimation Using Unsupervised Domain Adaptation Kim, Jihyun; Lee, Minjung; Cho, Hansam; Kim, Seoung Bum*	Paper 51 A Computer Vision Based Approach for Energy-Efficient Air Conditioner Control Nguyen, Tien; Vong, Phu; Tran, Hieu; Truong, Taddy; Nguyen, Binh Thanh*
Coffee break 11:20 - 11:50		
Parallel session 2 11:50 - 13:20		
Building S		
ROOM A Cyber Security	ROOM B Data Mining	ROOM C Various Applications
Paper 31 Training Scenario for Security Testing of the Kerberos Protocol Lazarov, Willi*; Boháčik, Antonín; Kohout, David; Fudjak, Radek	Paper 13 Work in Progress Prediction for Business Processes Using Temporal Convolutional Networks Mehrdad Bibalan, Yousef*; Far, Behrouz; Eshragh, Faezeh; Ghiyasian, Bahareh	Paper 78 Exploring Simpson's Paradox Through the Lens of Fuzzy Causal Inference Saki, Amir; Faghghi, Usef*
Paper 25 Sandbox Environment for Offensive and Defensive Training in Smart Metering Kohout, David*; Lazarov, Willi; Lieskovan, Tomas; Mlýnek, Petr	Paper 39 Explainable Machine Learning for Intrusion Detection Bellegdi, Sameh*; Selamat, Ali; Olatunji, Sunday; Fujita, Hamido; Krejcar, Ondrej	Paper 18 "Hybrid Additive Manufacturing: A Convergence of Physical, Digital, and Social Realms Driven by Generative AI" Terziyan, Vagan*; Kaikova, Olena
Paper 37 HERMES DXP: an approach to military and non-military cyber threat intelligence sharing Przybyszewski, Marcin*; Gierszal, Henryk; Tyczka, Piotr; Kruszyński, Arkadiusz; Skoufis, Christos; Pierret, Frédéric; Pure, Ivo	Paper 68 Enhancing False-Sentence Pairs of BERT-pair for Low-Frequency Aspect Category Detection Kikuchi, Masato*; Anda, Shogo; Ozono, Tadachika	Paper 42 Knowledge-based Monitoring for Checking Law and Regulation Compliance Klampfl, Lorenz; Wotawa, Franz; Jahaj, Ledio*
Building A - ATRIUM		
13:25 - 14:25	Lunch	

Wednesday July 10th		
Parallel session 3		
14:30 - 16:00		
Building S		
ROOM A Optimization	ROOM B Neural Networks	ROOM C Machine Learning
<p style="text-align: center;">Paper 83</p> <p>Accelerating Recurrent Neural Network Controllers Using Levenberg–Marquardt and Forward Accumulation Through Time in Closed-loop Control Systems with Parallel Computing and Weight Dropout Techniques</p> <p style="text-align: center;">Sam, Maxwell; Kalyan Devalampeta Surendranath, Kushal; Fu, Xingang; Qingge, Letu*</p>	<p style="text-align: center;">Paper 66</p> <p>Weightless Neural Networks Based on Multi-valued Probabilistic Logic for Node for the Handwritten Digit Classification</p> <p style="text-align: center;">Nedjah, Nadia*; Mourelle, Luiza de Macedo; Machado, Tarso</p>	<p style="text-align: center;">Paper 84</p> <p>Towards Addressing An Open Problem in Coupled Matrix Tensor Factorization for Satellite Imagery Data using Human-in-Loop</p> <p style="text-align: center;">RAGE, Uday Kiran*; Maharana, Abinash; Ohtake, Makiko; Ogawa, Yoshiko</p>
<p style="text-align: center;">Paper 34</p> <p>Learning Causality under Uncertainty for Egocentric Action Anticipation</p> <p style="text-align: center;">Garrido, Antonio*</p>	<p style="text-align: center;">Paper 80</p> <p>Parallel Implementation of a Convolutional Neural Network on an MPSoC</p> <p style="text-align: center;">Mourelle, Luiza de Macedo*; Nedjah, Nadia; Cardoso, Alexandre</p>	<p style="text-align: center;">Paper 64</p> <p>Representation and Generation of Music: Incorporating Composers' Perspectives into Deep Learning Models</p> <p style="text-align: center;">HekmatiAthar, SeyyedPooya; Qingge, Letu; Anwar, Mohd*</p>
<p style="text-align: center;">Paper 86</p> <p>A Novel Instance Generator for Benchmarking the Job Shop Scheduling Problem</p> <p style="text-align: center;">March, Carlos; Perez, Christian ; Salido, Miguel A.*</p>	<p style="text-align: center;">Paper 58</p> <p>Classifying Endangered Species in High-Risk Areas using Deep Learning</p> <p style="text-align: center;">Atkinson-Abutridy, John*; Engdahl, Andrea; Brito, Cristian</p>	<p style="text-align: center;">Paper 81</p> <p>CAUSAL DEEP Q NETWORK</p> <p style="text-align: center;">Khelifi, Elouanes*; Faghihi, Usef; Saki, Amir</p>
Coffee break		
16:00 - 16:20		
Building S - ROOM A		
16:20 - 17:20	Keynote speaker - Hector Perez-Meana	
Building A - ATRIUM		
Banquet		
19:30 - 21:30		

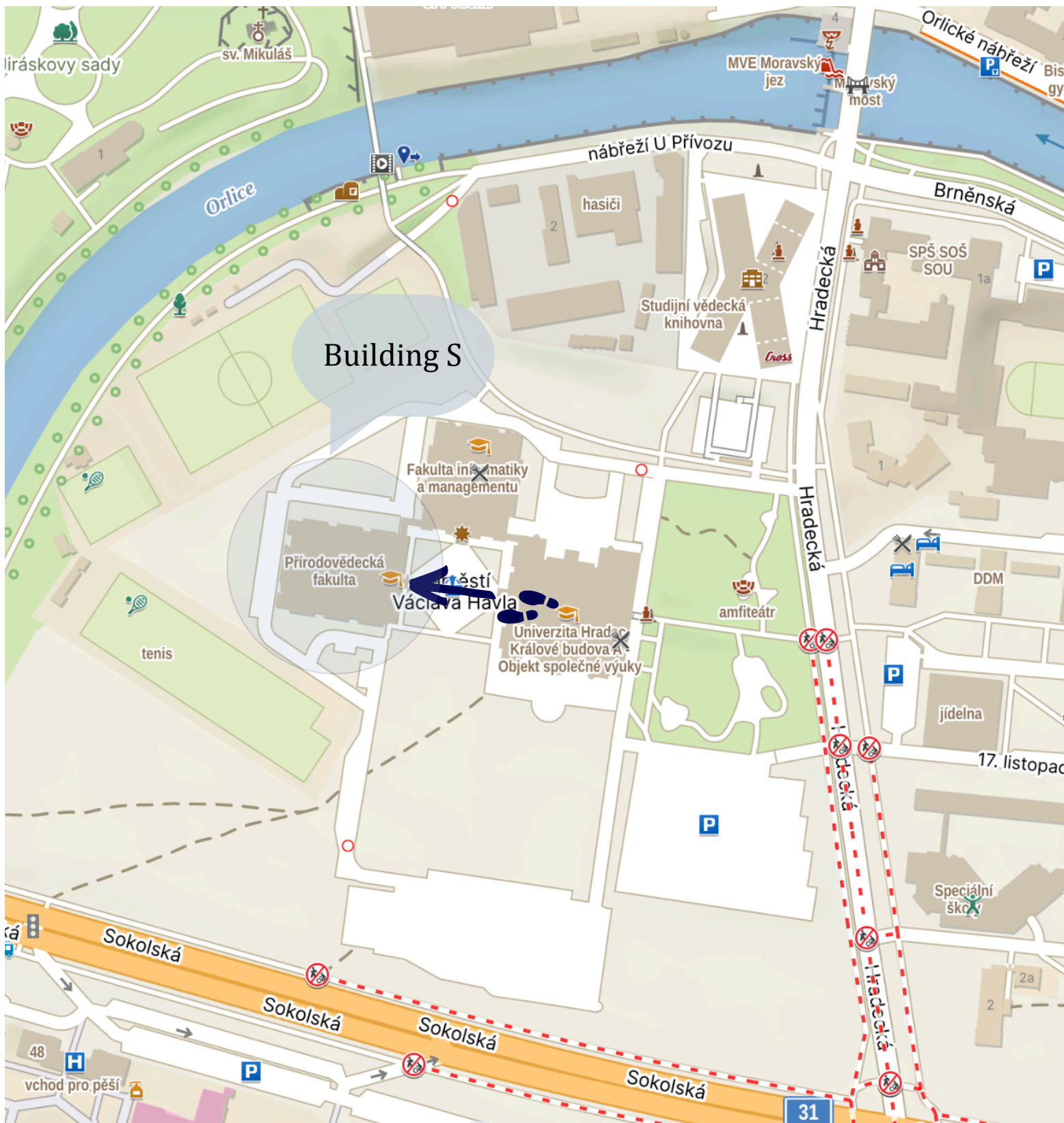
Thursday July 11 th		
Building S - Entrance hall		
8:30 - 9:00	Registration	
Building S - ROOM A		
09:00 - 10:00	Keynote speaker - Yinglin Wang	
Coffee break 10:00 - 10:30		
Parallel session 1 10:30 - 12:00		
Building S		
ROOM A Machine Learning	ROOM B Computer Vision	ROOM C Various Applications
Paper 85 A Novel Multi-Task Single-Step Traffic Congestion Forecasting Framework for Large-Scale Road Networks Tejima, Kazuki; Saxena, Deepika*; Rage, Uday Kiran	Paper 48 A Robust Component-based Template Matching Approach using Document Layout Graph for Extracting Information Nguyen Vu, Son Lam; Nguyen, Tien Dong; Pham, Hai V*	Paper 28 Improving Noise Robustness of Automatic Speech Recognition based on a Parallel Adapter Model with Near-Identity Initialization Osaki, Takahiro*; Sudo, Yui; Itoyama, Katsutoshi; Nishida, Kenji; Nakadai, Kazuhiro
Paper 11 Live Product Line Engineering Using Density-Based Clustering of CAD Models Funk, Sebastian; Legat, Christoph; Busboom, Axel*	Paper 59 Super-Resolution Methods for Wafer Transmission Electron Microscopy Images Kim, Sungsu; Baek, Insung; Cho, Hansam; Roh, Heejoong; Kim, Kyunghye; Jo, Munki; Tae, Jaeung; Kim, Seoung Bum*	Paper 20 Reconsidering Stochastic Policy Gradient Methods for Traffic Signal Control Kato, Masahiro*; Kojima, Ryosuke
Paper 17 Evaluation Techniques for Long Short-Term Memory Models: Overfitting Analysis and Handling Missing Values Bolboaca, Roland*; Haller, Piroaska; Genge, Bela	Paper 14 Boundary-Focused Semantic Segmentation for Limited Wafer Transmission Electron Microscope Images Jo, Yongwon; Bae, Jinsoo; Cho, Hansam; Roh, Heejoong; Kim, Kyunghye; Jo, Munki; Tae, Jaeung; Kim, Seoung Bum*	Paper 38 Silver Surfer: Navigating the Parametric Protein Space with Genetic Algorithms Marcu, Stefan-Bogdan*; Mi, Yanlin; Yallapragada, Venkata Vamsi Bharadwaj; Tangney, Mark; Tabirca, Sabin
Building A - ATRIUM		
12:05 - 13:05	Lunch	
13:05	Meeting at Building A - Lunch zone	
13:15	Departure - Conference trip to Baroque hospital Kuks	
14:30 - 16:30	Program at Baroque hospital Kuks	
16:30	Departure back to Hradec Kralove	
17:00 - 17:30	Arrival back to Hradec Kralove	

Friday July 12th	
Parallel session 09:00 - 10:30	
Building S	
ROOM A e-Applications	ROOM B Cyber Security
Paper 43 A Comparative Study of Transfer Learning on CNN-based Models for Fault and Anomaly Detection in Industrial Processes Salsano, Anita*; Menanno, Marialuisa; Bernardi, Mario Luca	Paper 73 Utilization of Artificial Intelligence for the SIEM Logging Architecture Design in the Context of Smart City Soběslav, Vladimír; Horalek, Josef; Almer, Lubomír*
Paper 75 Fog-Based Ransomware Detection for Internet of Medical Things Using Lightweight Machine Learning Algorithms Harzie, Ras Elisa; Selamat, Ali*; Krejcar, Ondrej; Fujita, Hamido	Paper 63 Classification of datasets used in data anonymization for IoT environment Medková, Jana*
Paper 52 Verifying Autoencoders for Anomaly Detection in Predictive Maintenance Guidotti, Dario*; Pandolfo, Laura; Pulina, Luca	
Coffee break 10:30 - 11:00	
Building S - ROOM A	
11:00 - 11:30	Closing ceremony
Building A - ATRIUM	
11:40 - 12:40	Lunch

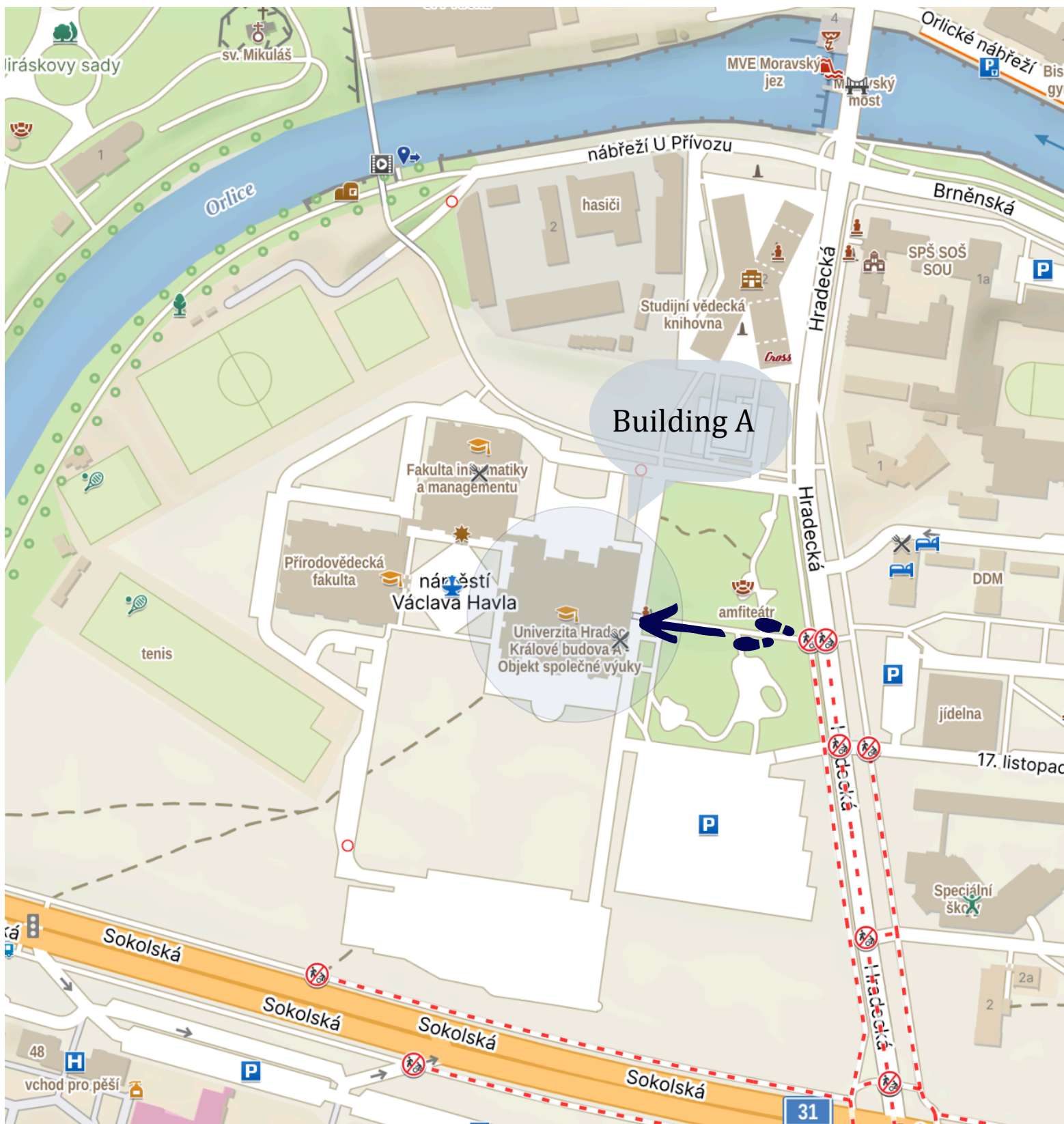
Building S - The Faculty of Science

Registration, Coffee breaks,

Conference ROOMS A, B, C



Building A - Common Education Facility Atrium - Lunches and Banquet



Hradecká 1227/4
500 03 Hradec Králové
Czech Republic





Entrance

Building S



Building A



Entrance