



A Pannon Egyetem átfogó intézményfejlesztése az intelligens szakosodás elősegítése érdekében

EFOP-3.6.1-16-2016-00015



PCIT 2019 Conference Program

University of Pannonia, Faculty of Information Technology
Egyetem u. 2, Veszprém, Hungary

31st May 2019, Friday

10:00-11:30 **Satellite event of PCIT: Student Conference of the New National Excellence Program**

Venue: 7th floor, room number: 726

13:30-14:00 **Registration**

Venue: ground floor

14:00-14:45 **Opening Session, Dean's Address**

Invited talk:

Zalán Bodó: Fake news detection using no external knowledge

Venue: ground floor, room number: I 1



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31st May 2019, Friday

Mathematics and computer science session

Venue: 4th floor, room number: 415

- 15:00-15:20** **András Éles and István Heckl:** Application of the maximal bipartite matching algorithm to schedule medical appointments with quotas
- 15:20-15:40** **Istvan Szalkai and Zsolt Kosztyan:** Hybrid time-quality-cost trade-off problems
- 15:40-16:00** **Allan Frendrup, Zsolt Tuza and Preben Dahl Vestergaard:** Distance domination and vertex partitions
- 16:00-16:20** **Munqath Alattar and Attila Sali:** Strongly possible keys
- 16:20-16:40** **Ferenc Kruzslicz and Miklós Hornyák:** Data Linking with String Matching

Industrial and engineering applications I session

Venue: 4th floor, room number: 416

- 15:00-15:20** **Márk Rátosi and Gyula Simon:** Undersampled On-Off Keying Camera Communication Methods for Beacon ID Transmission
- 15:20-15:40** **Laszlo Czuni and Karim Ben Alaya:** Using Graphs for High-Level 2D Trunk Modeling
- 15:40-16:00** **Dávid Noel Tóth and Ferenc Szabó:** Validation of a custom human centric luminaire design based on on-site experiments
- 16:00-16:20** **Daniel Leitold, Agnes Fogarassy-Vathy and Janos Abonyi:** Systematic analysis of heuristic network partitioning algorithms and their applicability in sensor and controller placement



31st May 2019, Friday

Health informatics session

Venue: 4th floor, room number: 415

- 17:00-17:20** **Gergely Svab, Gábor Szederkényi and László Tretter:** Modeling of phenylalanine metabolism and its medical relevance
- 17:20-17:40** **Benedek Szakonyi, István Vassányi and István Kósa:** Improved stress detection method for Ambient Assisted Living applications
- 17:40-18:00** **Mohamed F. Issa, Zoltan Juhasz and György Kozmann:** Automatic Removal of EOG artefacts from EEG based on Independent Component Analysis
- 18:00-18:20** **András London:** A novel psychiatric registry system and its utilization for clinical and pharmaceutical research
- 18:20-18:40** **István Vassányi, Tamás Kováts, György Surján and Zoltán Nagy:** Analysis of patient pathways in acute stroke care episodes

Industrial and engineering applications II session

Venue: 4th floor, room number: 416

- 17:00-17:20** **Rachid Rhyad Saboundji and Róbert Adrian Rill:** Predicting user actions under time constraints in a divided attention task
- 17:20-17:40** **Ágnes Lipovits, Katalin Tömördi, Zsolt Vörösházi and Réka Jinda:** Investigating the visual forms of dynamic electronic work instructions to improve learning efficiency and productivity in assembly processes
- 17:40-18:00** **Balázs Csutak, Tamás Péni and Gábor Szederkényi:** An optimization based algorithm for conflict-free navigation of autonomous guided vehicles
- 18:00-18:20** **Veronika Szűcs and Mahmoud Wassouf:** Using modified MANET protocols in emergency networking



1st June 2019, Saturday

Mobile and community applications session

Venue: 4th floor, room number: 415

- 9:00-9:20** **Tibor Guzsvinecz, Veronika Szűcs and Cecilia Sik Lanyi:** Designing gamified virtual reality applications with sensors – A gamification study
- 9:20-9:40** **Gergo Laszlo Proszenyak, Adrian Arvai, Cecilia Sik-Lanyi, Adam Czank, Arpad Kelemen, Shannon Cerbas, Barbara van De Castle, Yulan Liang, Csaba Simon and Ferenc Revesz:** Walking Warrior
- 9:40-10:00** **Barbara Bodor, Patrícia Szabó and Cecilia Sik-Lanyi:** Re-Creation, an android game
- 10:00-10:20** **Bence Halmosi and Cecilia Sik-Lanyi:** Learning to play snake using genetic neural networks
- 10:20-10:40** **Miklós Hornyák and Ferenc Kruzsliz:** Városi közösségi érzékelő Meetup.com adatokra építve

Process modeling and optimization session

Venue: 4th floor, room number: 416

- 9:00-9:20** **Gyula Ábrahám, György Dósa, Tibor Dulai and Ágnes Werner-Stark:** Decision supporting tool for scheduling of production processes considering human factors
- 9:20-9:40** **Ákos Orosz and Ferenc Friedler:** Synthesis of reliable processing systems
- 9:40-10:00** **Balázs Csontos and István Heckl:** Simulation models for transporting oil materials in pipelines
- 10:00-10:20** **Adrien Leitold, Anna Ibolya Pózna and Miklós Gerzson:** Colored Petri Net based Monitoring and Diagnosis of Technological Systems

Applications in social sciences and control session

Venue: 4th floor, room number: 415

- 11:00-11:20** **Boris Aberšek, Metka Kordigel Aberšek, Cecilia Sik Lanyi and Andrej Flogie:** Ethical Problems Connected with Use of Smart and Intelligent Learning Environment
- 11:20-11:40** **László Szerb, Éva Komlósi and Mónika Tiszberger:** Hungary's digital entrepreneurship based on the European Index of Digital Entrepreneurship Systems
- 11:40-12:00** **István Balázs, Attila Fodor and Attila Magyar:** Aggregation approaches for distributed flexibility aggregators
- 12:00-12:20** **Tibor Guzsvinecz, Tibor Medvegy and Veronika Szűcs:** A brief review on the challenges of Internet of Things and their solutions

Data analysis session

WORKSHOP: Advances in Data Science

Venue: 4th floor, room number: 416

- 11:00-11:20** **Balázs Kovács:** Financial text mining using intraday data from Budapest Stock Exchange
- 11:20-11:40** **Szabolcs Szekér and Ágnes Vathy-Fogarassy:** Application of Text Mining Methods on Unstructured Hungarian Echocardiogram Documents
- 11:40-12:00** **Branko Kavšek and Balázs Kovács:** Using Bayesian Networks as a Modeling Tool to Detect Interactions Between Factors Caused by Obesity in Children and Adolescents
- 12:00-12:20** **Zsolt Vassy and István Vassányi:** A machine learning algorithm for automatic structure detection and pattern analysis