

**SLOVENIAN CONFERENCE ON ARTIFICIAL INTELLIGENCE /**
**SLOVENSKA KONFERENCA O UMETNI INTELIGENCI**
**Tuesday 6th October 2020 / Torek 6. oktober 2020**
**Hall / Predavalnica: Velika predavalnica**
**Telekonference link / Telekonferenčna povezava:**
<https://global.gotomeeting.com/join/839285005>

<b>09:00 – 10:00</b>	<b>Opening / Otvoritev</b>  <b>Invited talk / Vabljeno predavanje</b>  <ul style="list-style-type: none"> <li>• <b>Juan Carlos Augusto:</b> The Smart Environments Architecture (SEARCH)</li> </ul> <p>Several smart environments have been developed in the last two decades, mostly in an ad hoc manner. Our research group has been developing an integrated system architecture combining different modules which are interconnected and deal with complex cases of house services automation, behaviour recognition, user advice and emergencies. The system includes learning and reasoning modules, interfaces as well as handling of preferences and multiple occupancy. The aim of this talk will be to explain how it works as well as how it connects to the more general area of Artificial Intelligence and the state of the art on intelligent systems.</p>
<b>10:00 – 11:00</b>	<b>Session A / Sekcija A</b>  <b>Chair / Vodi: Matjaž Gams</b>  <ul style="list-style-type: none"> <li>• <b>Carlo M. De Masi, Mitja Luštrek:</b> Drinking Detection from Videos in a Home Environment</li> <li>• <b>Gašper Slapničar, Erik Dovgan, Jakob Valič, Mitja Luštrek:</b> Mental State Estimation of People with PIMD using Physiological Signals</li> <li>• <b>Dejan Štepec:</b> Deep Multi-label Classification of Chest X-ray Images</li> <li>• <b>Ana Peterka, Zoran Bosnić, Evgeny Osipov:</b> Improving Mammogram Classification by Generating Artificial Images</li> </ul>
<b>11:00 – 11:30</b>	<b>Coffee Break / Odmor za kavo</b>

<p><b>11:30 – 13:00</b></p>	<p><b>Session B / Sekcija B</b></p> <p><b>Chair / Vodi: Tea Tušar</b></p> <ul style="list-style-type: none"> <li>• <b>Andrejaana Andova, Stefano Bromuri, Mitja Luštrek:</b> Using Mozilla's DeepSpeech to Improve Speech Emotion Recognition</li> <li>• <b>Marija Neceva, Emilija Stoilkovska, Hristijan Gjoreski:</b> Towards End-to-end Text to Speech Synthesis in Macedonian Language</li> <li>• <b>Luka Žontar, Zoran Bosnić:</b> Adaptation of text to publication type</li> <li>• <b>Vid Stropnik, Zoran Bosnić, Evgeny Osipov:</b> Comparison of methods for topical clustering of online multi-speaker discourses</li> <li>• <b>Andraž Levstek, Darja Silan, Aljoša Vodopija:</b> Analiza glasu kot diagnostična metoda za odkrivanje Parkinsonove bolezni</li> <li>• <b>Žiga Simončič, Zoran Bosnić:</b> Sistem za ocenjevanje esejev na podlagi koherence in semantične skladnosti</li> </ul>
<p><b>13:00 – 14:00</b></p>	<p><b>Lunch Break / Odmor za kosilo</b></p>
<p><b>14:00 – 16:30</b></p>	<p><b>Session C / Sekcija C</b></p> <p><b>Chair / Vodi: Zoran Bosnić</b></p> <ul style="list-style-type: none"> <li>• <b>Michal Arthur Szlupowicz, Jure Brence, Jennifer Adams, Edward Malina, Sašo Džeroski:</b> Machine Learning of Surrogate Models with an Application to Sentinel 5P</li> <li>• <b>Martin Gjoreski, Vladimir Kuzmanovski, Marko Bohanec:</b> Generating Alternatives for DEX Models using Bayesian Optimization</li> <li>• <b>Miha Bizjak, Matej Guid:</b> Towards automatic recognition of similar chess motifs</li> <li>• <b>Miha Mlakar, Jernej Zupančič, Burut Budna, Maj Smerkol:</b> Smart Issue Retrieval Application</li> <li>• <b>Alina Machidon, Maj Smerkol, Matjaz Gams:</b> URBANITE H2020 project Algorithms and simulation techniques for decision-makers</li> <li>• <b>Gizem Gültekin Várkonyi, Anton Gradišek:</b> Data Protection Impact Assessment - an integral component of a successful research project from the GDPR point of view</li> </ul>

**SLOVENIAN CONFERENCE ON ARTIFICIAL INTELLIGENCE /**

**SLOVENSKA KONFERENCA O UMETNI INTELIGENCI**

Wednesday 7th October 2020 / Sreda 7. oktober 2020

Hall / Predavalnica: Velika predavalnica

Telekonference link / Telekonferenčna povezava:

<https://global.gotomeeting.com/join/311253901>

<p><b>9:00 – 11:00</b></p>	<p><b>Session A / Sekcija A</b></p> <p><b>Chair / Vodi: Vito Janko</b></p> <ul style="list-style-type: none"> <li>• <b>Ivana Kiprijanovska, Hristijan Gjoreski, Matjaž Gams:</b> Abnormal Gait Detection Using Wrist-Worn Inertial Sensors</li> <li>• <b>Simon Stankoski, Mitja Luštrek:</b> Energy-Efficient Eating Detection Using a Wristband</li> <li>• <b>Miljana Shulajkovska, Hristijan Gjoreski:</b> Recognition of Human Activities and Falls by Analyzing the Number of Accelerometers and their Body Location</li> <li>• <b>Ivana Kiprijanovska, Jani Bizjak, Matjaž Gams:</b> Fall Detection and Remote Monitoring of Elderly People Using a Safety Watch</li> <li>• <b>Nina Reščič, Marko Jordan, Jasmijn de Boer, Ilse Bierhoff, Mitja Luštrek:</b> Mobile Nutrition Monitoring System: Qualitative and Quantitative Monitoring</li> <li>• <b>Junoš Lukan, Marko Kutrašnik, Larissa Bolliger, Els Clays, Mitja Luštrek:</b> STRAW Application for Collecting Context Data and Ecological Momentary Assessment</li> <li>• <b>Tine Kolenik, Matjaž Gams:</b> Povečevanje enakosti (oskrbe duševnega zdravja) s prepričljivo tehnologijo</li> <li>• <b>Sašo Džeroski:</b> Elements of AI Online Course in Slovenian</li> </ul>
<p><b>11:00 – 11:30</b></p>	<p><b>Coffee Break / Odmor za kavo</b></p>

<p><b>11:30 – 12:45</b></p>	<p><b>Session B / Sekcija B</b></p> <p><b>Chair / Vodi: Mitja Luštrek</b></p> <ul style="list-style-type: none"> <li>• <b>Erik Dovgan, Bogdan Filipič:</b> Semantic Feature Selection for AI-Based Estimation of Operation Durations in Individualized Tool Manufacturing</li> <li>• <b>Stefan Kalabakov, Primož Kocuvan, Jani Bizjak, Samo Gazvoda, Matjaž Gams:</b> Deep Transfer Learning for the Detection of Imperfections on Metallic Surfaces</li> <li>• <b>Ivana Kiprijanovska, Jani Bizjak, Samo Gazvoda, Matjaž Gams:</b> Machine Vision System for Quality Control in Manufacturing Lines</li> <li>• <b>David Golob, Janko Petrovčič, Stefan Kalabakov, Primož Kocuvan, Jani Bizjak, Gregor Dolanc, Jože Ravničan, Matjaž Gams:</b> Detekcija napak na industrijskih izdelkih</li> <li>• <b>Primož Kocuvan, Jani Bizjak, Matjaž Gams:</b> Avtomatska detekcija obrabe posnemalnih igel</li> </ul>
<p><b>12:45 – 13:00</b></p>	<p><b>Presentation of best paper award / Razglasitev nagrade za najboljši prispevek</b></p> <p><b>Closing / Zaključek</b></p>