

## CIIT 2021: Schedule

Note that the titles of the sessions, keynotes and workshops are hyperlinks to the Microsoft Teams meeting. Different sessions have different links. You can open the links in any of the following browsers: Google Chrome, Microsoft Edge and Opera or in the Microsoft Teams desktop application.

Thursday, 6 May 2021				
<a href="#">9:00 - 9:30 Official opening by the conference chairs Hristina Mihajloska Trpeska and Ivan Kitanovski, and the Dean of FINKI Ivan Chorbev</a>				
<a href="#">9:30 - 11:00 Session 1: Deep Learning and NLP. Chair: Prof. Petre Lameski</a>				
1	A Review on Durian Fruit Maturity Detection Technique	Muthulakshmi Arumugasamy and Renjith P N	Full	09:30-09:45
9	Predicting Air Quality in Serbia using Artificial Neural Network	Stefan Šošić, Marija Blagojević and Olga Ristić	Full	09:45-10:00
31	Named Entity Recognition For Macedonian Language	Ivan Krstev, Fisnik Doko, Sasho Gramatikov, Miroslav Mirchev and Igor Mishkovski	Full	10:00-10:15
11	Learning morphosyntactic descriptions for Macedonian	Jana Kuzmanova	Full	10:15-10:30
6	Deep Style Transfer	Stefan Jovanov, Sonja Gievska, Frosina Stojanovska and Martina Toshevska	Short	10:30-10:45
<a href="#">11:00 - 11:30 Coffee break</a>				
<a href="#">11:30 - 12:30 Keynote: "Application-Inspired Machine Learning" by PhD Jasmina Bogojeska, Researcher at IBM Research, Zurich, Switzerland</a>				
<a href="#">12:30 - 14:00 Session 2: AI and Applications. Chair: Prof. Riste Stojanov</a>				
14	Towards a Smart Sustainable System for Indoor Plant Cultivation	Ivan Dimitrovski, Eftim Zdravevski and Petre Lameski	Full	12:30-12:45
38	Mathematical modeling of COVID-19 virus	Marija Ljubenovska, Limonka Koceva Lazarova, Natasha Stojkovicj, Aleksandra Stojanova and Marija Miteva	Full	12:45-13:00
39	Serving and Dynamic Management of Atomic Models for Multivariate Time Series in Apache Flink	Laze Gjorgiev, Kristijan Kolev, Aleksandar Trajkovski and Gjorgji Madzarov	Full	13:00-13:15
33	Hard disk drive failure rates in datacenters	Slađana Đurašević, Uroš Pešović, Vanja Luković and Borislav Đorđević	Full	13:15-13:30
22	Dynamically Configured Stream Processing In Apache Flink - The use case of custom processing rules management and application	Stefan Andonov and Gjorgji Madjarov	Full	13:30-13:45
<a href="#">13:00-14:15 Workshop: Use of social robots and apps in the treatment of children with autism-the SMART project (detailed schedule)</a>				
<a href="#">14:00 - 15:00 Lunch break</a>				
<a href="#">15:00 – 16:30 Session 3: Big Data, Security and Healthcare. Chair: Prof. Bojana Koteska</a>				
30	Timers management module in Apache Flink	Laze Gjorgiev, Kristijan Kolev, Aleksandar Trajkovski and Gjorgji Madzarov	Full	15:00-15:15

19	A Short Review of Challenges and Benefits for Big Data in Healthcare Sector: eHealth and Analytics	Viktor Denkovski, Goce Gavrilo and Irena Stojmenovska	Full	15:15-15:30
7	Penetration testing strategies for avoiding vulnerability threats	Milena Gjorgjievska Perusheska, Hristina Mihajloska Trpceska and Vesna Dimitrova	Full	15:30-15:45
18	Blockchain-based model for authentication, authorization, and immutability of healthcare data at primary healthcare	Goce Gavrilo, Irena Stojmenovska and Vladimir Trajkovic	Full	15:45-16:00
32	Analysis of Heart Rate Variability Parameters	Igor Janevski, Marjan Gusev and Nevena Ackovska	Short	16:00-16:15
<a href="#">16:30 - 17:30 Keynote: "Who Controls the Internet?: Analyzing Global Threats using Property Graph Traversals" by PhD Milivoj Simeonovski, CPO at AIS Advanced IT-Security Solutions</a>				
<a href="#">17:30 - 18:00 Coffee break</a>				
<b><a href="#">18:00 – 19:30 Session 4: Applied Computer Science. Chair: Prof. Eftim Zdravevski</a></b>				
5	Implementation of Monetization Practices in Mobile Applications	Vlatko Efremovski and Adrijan Božinovski	Full	18:00-18:15
10	Schrödinger API - web service for solving multidimensional time-independent Schrödinger equation using Hermite DVR approach	Bojana Koteska, Anastas Mishev and Ljupco Pejov	Full	18:15-18:30
27	One implementation of a web application to improve the business of eHotel	Nenad Kojić and Jelena Đukić	Full	18:30-18:45
36	Overview of testing and visualization tools for GraphQL	Vlatko Spasev, Ivan Kitanovski, Ivica Dimitrovski and Ivan Chorbev	Full	18:45-19:00
40	Semantic Web and Data Science Integration Using Computational Books	Dimitar Mileski, Milos Jovanovik and Dimitar Trajanov	Short	19:00-19:15
26	The impact of COVID-19 on sharing economy: Use-case on sharing and renting clothing	Ana Todorovska, Dimitar Trajanov and Sasho Gramatikov	Short	19:15-19:30
<b>Friday, 7 May 2021</b>				
<b><a href="#">9:00 – 10:30 Session 5: E-learning and E-services. Chair: Prof. Boban Joksimoski</a></b>				
28	Analysis and overview of collaboration systems for teleconferencing	Ognen Firfov, Dominika Karafiloska and Goce Gavrilo	Full	09:00-09:15
41	Analysis and guidelines for improving the current state of accessibility of Macedonian websites for people with disabilities	Ana Tripunoska, Riste Stojanov and Sasho Gramatikov	Full	09:15-09:30
3	Engaging Students with Personalized and Remotely Orchestrated Cybersecurity Training Exercises	Vojdan Kjorveziroski	Full	09:30-09:45
8	Constraint Optimization Model of University Course Timetabling Problem	Olga Ristić, Marjan Milošević, Sandra Milunović Koprivica, Marija Blagojević and Stefan Šošić	Full	09:45-10:00
34	Linear regression equations for student's success prediction in the secondary level of education	Fuad Dedić, Nina Bijedic and Dražena Gašpar	Full	10:00-10:15
15	Framework for Inclusive Education in Kosovo	Venera Krasniqi	Short	10:15-10:30
<a href="#">10:30 - 11:30 Keynote: "Attention Moudulated Representations for Multi Task Learning" by Gjorgji Strezoski, Multix Group, Informatics Institute, University of Amsterdam</a>				
<a href="#">11:30 - 12:00 Coffee break</a>				
<b><a href="#">12:00-13:30 Student session 1. Chair: Prof. Monika Simjanoska</a></b>				
35	Modern Digital Educational Tools for Online Learning	Aleksandar Janjickj, Mile Jovanov and Arjan Skuka		12:00-12:15
2	Technologies in Smart Cities	Gorjan Spirovski		12:15-12:30

4	Certificate - based authentication using Spring Security	Borjan Kostov, Zorica Karapancheva, Ana Bogoevska and Jana Veljanoska	12:30-12:45
12	The main challenges of online lecturing from teachers perspective	Aleksandar Jank, Ana Madevska Bogdanova and Vladimir Trajkovik	12:45-13:00
13	Overview and Analysis of Versatile Video Coding (VVC)	Bojan Dabevski, Jana Markovikj and Sasho Gramatikov	13:00-13:15
16	Analysis of a video content consuming	Mihaela Obadikj, Damjan Kacharev and Sasho Gramatikov	13:15-13:30
<a href="#">12:00-13:00 Workshop: ESSENSE - Education Supporting Smart Environments for Seniors</a>			
<a href="#">13:30 - 14:30 Lunch break</a>			
<a href="#">14:30-16:00 Student session 2. Chair: Prof. Sasho Gramatikov</a>			
17	Classification and sentiment analysis on COVID-19 tweets regarding fake and real news	Mila Kuch	14:30-14:45
20	Time Complexity Analysis of Chess A.I in the King and Rook Endgame	Filemon Jankuloski and Adrijan Bozinovski	14:45-15:00
23	Performance of interactive robots used in preschool education	Kristina Todorovska and Nevena Ackovska	15:00-15:15
24	Detecting Ponzi Schemes in Ethereum	Ardian Abazi and Dejan Gjorgjevikj	15:15-15:30
25	Wildfire detection from UAV collected images using transfer learning	Sandra Treneska and Biljana Risteska Stojkoska	15:30-15:45
37	System for efficient storing and querying time series data	Adrian Cholak	15:45-16:00
<a href="#">16:00-16:30 Closing remarks</a>			