



Herl'any, Slovakia
January 21-23, 2021

SAMI 2021

IEEE 19th World Symposium on Applied Machine Intelligence and Informatics

Invitation to SAMI 2021 online event!

Dear SAMI 2021 Participants,

Since the pandemic made us stay home, the scientific activity must go on. All authors, reviewers and committee members made a hard job in order to complete the conference online.

Please, find the presentation files on [SAMI 2021 \(uni-obuda.hu\)](https://uni-obuda.hu)

Opening Ceremony, Plenary Talks and a Special Session will be organized on Zoom starting at **10:00 am** (Budapest time) on **January 21**, Thursday. Please, connect and follow us. Zoom site will open at 9 am, but the Opening Ceremony starts at 10:00 am.

Topic: SAMI 2021

Time: Jan 21, 2021 09:00 AM Budapest time

Join Zoom Meeting

<https://zoom.us/j/94636716073?pwd=cDhVUEhvUTRnLzRYZVZ4ME9PNjVQQQT09>

Meeting ID: 946 3671 6073

Passcode: herlany

PRELIMINARY PROGRAM:

10:00 am **Opening Ceremony**

Prof. Dr. Levente Kovács, SAMI 2021 General Chair and Rector of Óbuda University

Prof. Dr. Stanislav Kmet, Rector of TUKE

Prof. Dr. Imre J. Rudas, SAMI Founding Honorary Chair

Dr. Liberios Vokorokos, SAMI 2021 General Chair

Dr. Tamás Haidegger, IEEE Hungary Section Chair

10:30 **Plenary Talk I**

Radoslav Hudak, Marek Schnitzer, Jozef Zivcak:

Additive Manufacturing in Medicine and Tissue Engineering

Session chair: Tamás Haidegger

11:10 **Plenary Talk II**

Zs. Zrubka, M. Péntek: Using digital technologies in the measurement of health outcomes

Session chair: Tamás Haidegger

11:50 **Special Session on Recent PhD Research Achievements in Applied Informatics**

Session chair and organizer: Prof. Dr. László Horváth

11:50 Michal Mihálik, Marián Hruboš and Aleš Janota:

Testing of SLAM methods in the Matlab environment

12:05 Zoltán Varga and Ervin Racz: Influence of the Cell Temperature on the Performance of a Dye Sensitized Solar Cell

12:20 Laszlo Szucs, Péter Galambos and Dániel András

Drexler: Kinematics of Delta-type Parallel Robot Mechanisms via Screw Theory: A tutorial paper

12:35 Melvin Ogbolu, Zsíros Tímea and Miklos

Kozlovsky: The Impact of Braille Systems on Advanced Mathematical Geometry

12:50 Melvin Ogbolu, Levente Kovacs and Miklos

Kozlovsky: Understanding Biostatistics Using R Programming

13:05 Béla Surányi, Levente Kovacs and Laszlo

Szilagy: Segmentation of brain tissues from infant MRI records using machine learning techniques

13:20 Szabolcs Csa holczi, Levente Kovacs and Laszlo

Szilagy: Automatic segmentation of brain tumor parts from MRI data using a random forest classifier

13:35 Hazem Issa and József K. Tar: Speeding up the

Reduced Gradient Method for Constrained Optimization

13:50 Ferenc Tolner, György Eigner and Balázs Barta:

Resilience Interpretations of Small and Medium-sized Enterprises and its Analytical Approaches – Literature Review