



# CERC 2021

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# Proceedings

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**PREVIEW VERSION**

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# Preface

Back in 2020, just after the first COVID-19 lockdown, we decided to host CERC 2021, conference that you are currently attending. At that stage, we were hoping to be able to meet face-to-face here in Cork, the city where everything in CERC started.

Even it was not possible to host an onsite event at the end, it is great that we are able to live stream the conference for the first time and organise virtual networking sessions in addition to the privilege of having great speakers and special track sessions.

CERC is an opportunity to welcome not just our European friends and colleagues, but also those from farther afield. Munster Technological University punches above its weight in the areas of Artificial Intelligence, Cyber security and computer science research in general, principally through National, European and international funds and collaborations. So we believe it is appropriate that CERC is being held again in our University.

We are of course grateful to everyone who submitted a paper; whether your work was selected for presentation or not, if no-one had submitted, we wouldn't have had a conference. For those of you whose work was selected for presentation online, well done!

Along the way, we have been helped greatly by the program committee and my fellow program chairs, particularly: Prof Udo Bleimann and his invaluable support throughout the conference; Prof Huiru Zheng; Prof Ingo Stengel, Dr. Haiying Wang, and Prof Denise Reichel for co-organising the conference. Dirk Burkhardt and Dr. Robert Loew put a great effort into setting up the website and conference management system and preparing the conference programme and proceedings.

We are also extremely grateful to Munster Technological University, Ulster University, Hochschule Karlsruhe and Hochschule Darmstadt for providing invaluable support to the conference.

Finally, we really hope that you all enjoy the conference, that you benefit from the excellent programme that has been assembled, and that you can virtually discover Cork during the virtual coffee breaks.

Dr Haithem Afli  
Conference and Program Chair, CERC 2021  
Cork, Ireland, September 2021

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# Table of Content

## Keynotes

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<b>Microbiome, Health and Data Science: Current Applications and Future Prospects</b>	12
Bruno Gabriel Nascimento Andrade	
<b>Toward Digital Enabled Connected Health and Well-Being</b>	13
Huiru (Jane) Zheng	

### Chapter 1

## Visual Computing

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<b>AI-Based User Empowering Use Cases for Visual Big Data Analysis</b>	15
Thoralf Reis, Sebastian Bruchhaus, Florian Freund, Marco X. Bornschlegl, Matthias Hemmje	
<b>Video-Based Emotion Detection Analyzing Facial Expressions and Contactless Vital Signs for Psychosomatic Monitoring</b>	29
Hayette Hadjar, Binh Vu, Dennis Maier, Gwendolyn Mayer, Paul Mc Kevitt, Matthias Hemmje	

### Chapter 2

## Data Processing and Machine Learning

---

<b>Improving Machine Translation Quality Estimation Using Named-Entity Masking and Assessment Scores</b>	38
Anthony Reidy, Sean Cummins, Kian Sweeney, George Dockrell, Pintu Lohar, Andy Way	
<b>An Empirical Comparison Analysis on the Evolution of RNN Models Using Multiple European Languages</b>	50
Vikram Bhutani, Farshad Ghassemi Toosi	

<b>Data Quality Improvement and Entity Alignment Optimization for Constructing Large-Scale Knowledge Graphs</b>	68
Keaton Sullivan, Fiona Browne, Huiru Zheng, Haiying Wang	

<b>The Choice of Reference Channel in Channel Alignment and Channel Selection</b>	86
Ingo Stengel, Karin Pietruska, Matthias Wölfel	

### Chapter 3

## **E-Healthcare and Smart Diagnostics**

---

<b>A Robust Martingale Approach for Detecting Abnormalities in Human Heartbeat Rhythm</b>	99
Jonathan Etumusei, Jorge Martinez Carracedo, Sally McClean	

<b>Artificial Neural Network for Human Activity Recognition by Use of Smart Insoles</b>	116
Luigi D'Arco, Haiying Wang, Graham McCalmont, XianQi Lan, Huiru Zheng	

<b>Investigation of the Use of Deep Learning and Emotion Detection for the Improvement of Text-Based Medical Conversational Agent</b>	127
Bing Yuan, Haithem Afli	

<b>An RT-qPCR Data Analysis Platform</b>	143
Thomas Krause, Elena Jolkver, Sebastian Bruchhaus, Michael Kramer, Matthias Hemmje	

<b>Diversity of the Bifidobacterial Phageome in the Infant Gut</b>	152
Darren Buckley, Douwe van Sinderen, Francesca Bottacini	

### Chapter 4

## **E-Learning and Competences**

---

<b>QBL — A Software-Technical Approach for Supporting Competence-Based Learning</b>	154
Matthias Then, Benjamin Wallenborn, Felix Fischman, Sebastian Lothary, Ramona Srbecky, Michael Winterhagen, Matthias Hemmje	



<b>Supporting the Mapping of Educational Game Events With Competency Models Considering Qualifications-Based Learning</b>	165
Ramona Srbecky, Marcus Frangenberg, Benjamin Wallenborn, Matthias Then, Iván-José Pérez-Colado, Cristina Alonso-Fernandez, Baltasar Fernandez-Manjon, Matthias Hemmje	
<b>Examinations in the Context of Curriculum Content: Case Study of a 1926 Irish Mathematics Exam Paper</b>	181
Hazel Murray, David Malone	
<b>Splitfed Learning Without Client-Side Synchronization: Analyzing Client-Side Split Network Portion Size to Overall Performance</b>	188
Praveen Joshi, Chandra Thapa, Seyit Camtepe, Mohammed Hasanuzzaman, Ted Scully, Haithem Afli	

## Chapter 5

# Engineering and Society

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<b>Trust and Transparency in Data Protection in Online-Marketing — Differences Between Different Generations</b>	197
Louis Kerker, Ingo Stengel, Stefanie Regier	
<b>Three Source Electron-Beam Co-deposited Thermoelectric Bisbte Thin Films</b>	210
Philipp Lorenz, Gabriel Zieger, Heidemarie Schmidt	
<b>Temperature Determination During Flash Lamp Annealing</b>	214
Lars Rebohle, Viktor Begeza, Thomas Schumann	

# Workshop »Future of Education«

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<b>The Future of Education — Lessons learned from CERC Workshop »Future of Education« and an Online Course on »Digital Basics«</b>	216
Tanja Kranawetleitner, Heike Krebs, Nina Kuhn, Robert Loew	

# List of Authors

Afli	127, 188	Alonso-Fernandez	165
Andrade	12	Begeza	214
Bhutani	50	Bornschlegl	15
Bottacini	152	Browne	68
Bruchhaus	15, 143	Buckley	152
Camtepe	188	Cummins	38
D'Arco	116	Dockrell	38
Etumusei	99	Fernandez-Manjon	165
Fischman	154	Frangenberg	165
Freund	15	Ghassemi	50
Hadjar	29	Hasanuzzaman	188
Hemmje	15, 29, 143, 154, 165	Jolkver	143
Joshi	188	Kerker	197
Kramer	143	Kranawetleitner	216
Krause	143	Krebs	216
Kuhn	216	Lan	116
Loew	216	Lohar	38
Lorenz	210	Lothary	154
Maier	29	Malone	181
Martinez	99	Mayer	29
McCalmont	116	McClean	99
Mc Kevitt	29	Murray	181
Pietruska	86	Pérez-Colado	165
Rebohle	214	Regier	197
Reidy	38	Reis	15
Schmidt	210	Schumann	214
Scully	188	Srbecky	154, 165
Stengel	86, 197	Sullivan	68
Sweeney	38	Thapa	188
Then	154, 165	van Sinderen	152
Vu	29	Wallenborn	154, 165
Wang	68, 116	Way	38
Winterhagen	154	Wölfel	86
Yuan	127	Zheng	13, 68, 116
Zieger	210		