This section is compiled from reports of recent events sponsored or run in cooperation with ACM SIGAI. In general these reports were written and submitted by the conference organisers.

### 10th International Conference on Pattern Recognition Applications and Methods (ICPRAM '21)

**Online 02/04/21-02/06/21**  

ICPRAM 2021 was exceptionally held as an online streaming event, due to covid-19, from February 4-6, 2021. It was sponsored by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC). ICPRAM 2021 was organized in cooperation with the ACM SIGAI - ACM Special Interest Group on Artificial Intelligence, The International Neural Network Society (INNS), AAAI - Association for the Advancement of Artificial Intelligence, the Associazione Italiana per l'Intelligenza Artificiale, the Associação Portuguesa de Reconhecimento de Padrões (APRP), and endorsed by the International Association for Pattern Recognition (IAPR). It was also technically co-sponsored by the IEEE Computational Intelligence Society.

ICPRAM received 97 paper submissions from 30 countries. To evaluate each submission, a double blind paper review was performed by the Program Committee. After a stringent selection process, 21.65% of the papers were published and presented as full papers, i.e. completed work (12 pages/25' oral presentation).

Three invited talks were delivered by internationally distinguished speakers, namely: Julian Fierrez, Universidad Autonoma de Madrid, Spain (Distinguished IAPR Speaker) Corinela Fermüller, University of Maryland, United States Marco Gori, University of Siena, Italy

Additionally, a "Best Paper Award", a "Best Student Paper Award", a "Best Poster Award" and a "Best Industrial Paper Award" were conferred at the conference venue. More information can be found at: [http://icpram.org/PreviousAwards.aspx](http://icpram.org/PreviousAwards.aspx).

### 34th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, (IEA/AIE 2021)

**Kula Lumpur, Malaysia 07/26/2021-07/28/21**  

This year the 34th edition of the IEA/AIE (International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems), abbreviated as IEA/AIE 2021, was held in Kula Lumpur, from the 26th to the 28th of July 2021. The IEA/AIE conference is a longstanding conference, held every year since 1988, which focuses on artificial intelligence and its applications. Over many years, the IEA/AIE conference has been held worldwide in more than twenty different countries.

The IEA/AIE 2021 conference is sponsored by the International Society of Applied Intelligence (ISAI) in cooperation with Springer, University Teknologi Malaysia, the i-SOMET incorporated Association, Association for the Advancement of Artificial Intelligence (AAAI) / Assoc. for Computing Machinery (ACM/SIGART), Austrian Assoc. for Art. Intelligence (OEGAI), IEEE, Catalan Assoc. for Art. Intelligence (ACIA), Graz University of Technology, Italian Art. Intelligence Assoc. (AIxIA), Iwate Prefectural University, Japan, Japanese Society for Art. Intelligence (JSAl), Lithuanian Computer Soc. - AI Section (LIKS-AIS), Spanish Society for Art. Intelligence (AEPIA), Soc. for the Study of AI and the Sim. of Behavior (AISB), Taiwanese Association for Consumer Electronics (TACE), Taiwanese Association for Artificial Intelligence (TAAI), Texas State University, USA , University of Klagenfurt, Austria.

This year, 145 papers were submitted to the
conference. These papers were either submitted to the main track or a special session. Eight Special sessions were organized called: Special Session on Data Stream Mining: Algorithms and Applications (DSMAA 2021), Special Session on Intelligent Knowledge Engineering in Decision Making Systems (IKEDS2021), Special Session on Knowledge Graphs in Digitalization Era (KGDE2021), Special Session on Spatiotemporal Big Data Analytics (SBDA2021), Special Session on Big Data and Intelligence Fusion Analytics (BDIFA2021), Special Session on AI in Healthcare (AIH2021), Special Session on Intelligent Systems and e-Applications (iSeA), and Special Session on Collective Intelligence in Social Media (CISM 2021). An International Program Committee composed of 196 researchers from 38 countries was established. Each paper received at least three reviews following a double-blind peer review. Based on the reviewer’s recommendations, 87 full papers and 19 short papers were selected to appear in the conference proceedings published in two volumes in the Lectures Notes of the Artificial Intelligence series of Springer under the title: Advances and Trends in Artificial Intelligence: From Theory to Practice. Volume 1 (LNAI, volume 12798) https://link.springer.com/book/10.1007/978-3-030-79457-6 and Volume 2 (LNAI, volume 12799): in ?https://link.springer.com/book/10.1007/978-3-030-79463-7. Papers accepted by the conference cover both theoretical advances in artificial intelligence and applications of applied intelligence systems to solve real-life problems in all areas, including science, industry, engineering, robotics, and automation, finance and business, bioinformatics, medicine, cyberspace, and human-machine interactions, among others. Each paper was presented either in person or as an online presentation (for authors who could not attend the conference due to the coronavirus pandemic). Following the conference, papers that received excellent evaluations have been invited to submit an extended version for the “Best of IEA/AIE 2021” special issue in the Applied Intelligence journal.

It is worth mentioning that the IEA/AIE 2021 was running in the pandemic period imposed by COVID-19, in which participants were not allowed to travel overseas. We had online presentations organized on the webinar. Despite the time zone difference, we had a 98% attendance rate. Among the 106 papers published in Springer conference proceedings in two volumes, there were 101 papers presented online and five papers presented on the avenue. It was an excellent experience to notice that many participants were attending the presentations, and many sessions’ chairs were participating in the conference’s mandate regardless of the time zone differences making the event globally active.

Two keynotes presentations were given by distinguished researchers. In “Data quality for learning: The case of the COVID19 prediction with RX”, Prof. Francisco Herrera, Director of the Andalusian Research Institute “Data Science and Computational Intelligence” (University of Granada) described a new research paradigm towards data quality which is the key to transform big raw data into quality knowledge and smart data called Deep Data for better quality and knowledge extraction. Prof. Herrera discussed in his keynote issues related to limitations of deep learning with data quality with a real example from named as Knife detection and Covid with RX detection using smart data net. The 2nd keynote speaker was: Professor Vincent S. Tseng, from the Department of Computer Science, Director of the Institute of Data Science and Engineering, National Yang-Ming Chiao Tung University, Taiwan. He presented a talk on Broad and Deep Learning of Big Heterogeneous Health Data for Medical AI: Opportunities and Challenges; he outlined recent developments and ongoing projects on the topic of Medical AI, especially in intelligent diagnostic decision support and disease risk prediction by using various advanced data mining/deep learning techniques including image analysis (for medical images), multivariate time-series analysis (for vital signs like ECG/EEG), patterns mining (for EHR), text mining (for medical notes), sensory analysis (for sensory data like air quality), as well as fusion methods for integrated modeling.

This year, three awards were given to reward the best contributions according to evaluation categories represented as a novelty, technical quality, and presentation. These awards were sponsored by Springer. Good nomina-
tions were selected based on the overall review scores, and then the final decision was made by an award committee. There was the best paper award from the main track IEA/AIE and one best session paper award selected from the eight special sessions. The “Best Paper Award of the main conference track” representing the best overall contribution was given to “d-BTAI: the dynamic-Binary Tree-Based Anomaly Identification Algorithm for Industrial Systems” by Jyotirmoy Sarkar Santonu Sarkar; Snehanshu Saha. The recipient of the “Best special session Paper Award” was “Mood Support: A Personalized Intelligent Support Assignment System using an Agent-based Dynamic Configuration Model” by Azizi ab Aziz, Roqia Rateb, and Arya Bimo.

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