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Editorial

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This issue contains three papers. The first two papers deal with topics that are especially now of importance under the Corona Situation - cyber security und telemedicine. The third paper deals with the important topic of visualization of data mining results for association rule mining.

Cyber attack's [1] are a tremendous problem worldwide. The global mobility, seamless connectivity and free sharing of information and goods among the nations worldwide also promoted new dimension of computational challenges, such as cyber security. Given current spread of COVID-19 with its impact on economies, business, industries, health and nations security in US, Canada, and South Korea the importance of Cyber Security has become paramount. It is in time like these that criminals and outlaws are exploiting any possible vulnerability that could give an opportunity for effective cyber-attack(s). The authors review in South Korea, Canada, and US the frequency and the kinds of cyberattacks. They show motivation of the people who do cyber attack's and what techniques they use. The paper is a basic paper for showing the importance of the development of methods for preventing cyber attack's and can promote the research for cyber security.

The second paper [2] deals with telemedicine and recent applications. The paper discussed the use of data communications, Internet, cloud and Smart Ubiquitous Computational Devices in medical field while presenting possible scenarios related to ubiquitous access to Patient's Electronic Health Record and remote control of Medical Surgical Robots via Internet and Smart Ubiquitous Computational Devices. Telemedicine becomes of new importance under the aspect of Covid-19. Online consultations of doctors have been established to get illness certificates and to prevent people to get infected by meeting other patients. The recent status and new technical requirements for such a consultation are discussed in the paper. Telesurgery is another aspect of telemedicine. The state-of-the-art so far is presented and what new aspects must be considered are discussed.

The third paper [3] faces on the important aspect of visualization of results of a data mining process to the expert. In this particular paper, the results of association rules

mining are presented as collapsible tree graphs. The effectiveness of the representation is demonstrated on a large number of rules for a market basket application.

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References

1. Perner P., Editorial, Transactions on Machine Learning and Data Mining, Volume 13 - Number 2 - October 2020, p. 31-32, ISSN 1865-6781 ONLINE-ISSN 2509-9337, ISBN 978-3-942952-78-1.
2. Babulak E., Hyatt J., Kim Kyu Seok, Jang Sun Ju, COVID-19 & Cyber Security Challenges US, Canada & Korea, Transactions on Machine Learning and Data Mining, Volume 13 - Number 2 - October 2020, p. 43- 59, ISSN 1865-6781 ONLINE-ISSN 2509-9337, ISBN 978-3-942952-78-1.
3. Babulak E., Perner P., Corona Virus Global Health Transformation to Telemedicine, the Quality-of-Service Provision, and the Cybersecurity Challenges, Transactions on Machine Learning and Data Mining, Volume 13 - Number 2 - October 2020, p. 61-81, ISSN 1865-6781 ONLINE-ISSN 2509-9337, ISBN 978-3-942952-78-1.
4. Alyobi M.A., Jamjoom A.A., A Visualization Framework for Post-Processing of Association Rule Mining, Transactions on Machine Learning and Data Mining, Volume 13 - Number 2 - October 2020, p. 83-99, ISSN 1865-6781 ONLINE-ISSN 2509-9337, ISBN 978-3-942952-78-1.