Process View on E-Health with Risk Analysis

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Abstract

As our technology evolves to be more patient oriented there is a bit of uncertainty about how the e-Health works from process view. While there are many security questions that needs to be solved before using an e-Health as a tool for a wide range of people, there is also a one about e-health itself. Field of e-Health is gaining more and more attention considering we are going through industry revolution 4.0. Our research provides process perspective on this issue including a risk analysis together with structured process map from patient/user to his social worker either doctor, nurse or other medical personnel. This model should serve as a basic template for better understanding and easier implementing an e-health almost anywhere.

Keywords
e-Health, Process, Modeling, Risk Analysis, Industry 4.0

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Biographies

Michal Švehla is a student of doctoral study program at faculty of Electrical Engineering University of West Bohemia in Pilsen. He is in first year of this program. Before doctoral study he earned Bachelor and Master degree in the same University as mentioned above. His research interests include e-Health/healthcare, processes, optimization.

Jiří Tupa is a docent at University of West Bohemia and also a Vice-Dean for Faculty Development past nine years. Another of his interests are teaching business in electrical engineering on faculty of Electrical Engineering. Field of his scientific research is around Process Management - Modeling and simulation of ARIS processes, performance measurement and process diagnostics, technology and diagnostics in electronics, Management and Entrepreneurship in Electrical Engineering, IT management and IS security management, risk analysis, Copyright and media law, and the right of information and communication systems, security and protection of personal data. He is a member of the Legislative Commission of AS ZČU.