

# Tranziția de la Serverfull la Serverless Architecture în aplicații software bazate pe Cloud

Rezultate 2020

HOLISUN

## 1 Activități de diseminare în 2020

Eveniment	Locație	Data	Link	Rezultate
Post-COVID Digital Revolution	Zoom / Camera de Comerț BN	29.09.2020	<a href="http://www.cciabn.ro/webb/">http://www.cciabn.ro/webb/</a>	Presentation about using IoT and cloud for increasing the strength of the businesses
Using IoT and cloud infrastructure for developing businesses	Zoom / Camera de Comerț MM	20.10.2020	<a href="https://www.ccimm.ro/">https://www.ccimm.ro/</a>	Presentation about using IoT and cloud for increasing the strength of the businesses
2nd SFCOLAB International Brainstorming meeting	SFCOLAB	6.11.2020	<a href="https://www.scolab.org/">https://www.scolab.org/</a>	Presentation of Functionizer architecture and its usage on Farm2Form concept
Your Post-COVID business	Zoom / HOLISUN	26.11.2020	<a href="https://holisun.com/eveniment">https://holisun.com/eveniment</a>	30 participants

## 2 Articole publicate în 2020

- Oliviu Matei, Pawel Skrzypek, Robert Heb and Alexandru Moga, Transition from Serverfull to Serverless Architecture in Cloud-Based Software Applications, Proceedings of CoMeSySo 2020.

*This paper makes a practical comparison between serverfull and serverless architectures for the same specific cloud application used for face recognition. It turns out that both approaches have advantages and disadvantages and their specific use needs to be carefully assessed in the design phase of the software life cycle.*

- Oliviu Matei, Rudolf Erdei, Alexandru Moga, Robert Heb, A Serverless Architecture for a Wearable Face Recognition Application, Proceedings of RISS 2020 (to appear).

*This article presents an application for face recognition, which takes its video input streamed from smart glasses through an internet connection. The application resides in the cloud and uses serverless technologies. The system*

*has been tested on a database of 1119 individuals and the results show that the classical serverfull architecture is from 1.9 to 8.65 times slower than the serverless method. The advantage of the application resides in its high adaptability, parallelisation and scalability.*