



Tutorial A1

Cloud Computing for Emerging Cloud Apps: Cloud App-as-a-Service (CAaaS)

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Abstract. This tutorial will provide an introduction to the emerging field of Cloud Computing for designing, developing, deploying and maintaining online and offline apps. It will begin with explaining the concepts behind cloud computing systems, cloud software architecture, the need for cloud computing as part of app industry to deal with new app design, network apps, app designing tools, and the motivation for migrating to cloud computing systems. It will review facts, goals and common architectures of a cloud computing system, as well as introduce general cloud services for apps developers and marketing. The tutorial will highlight major problems, challenges, costs and the role of cloud computing architecture in the field of designing apps and how an app-design industry has an opportunity to migrate to cloud computing systems with low investment. It will describe some cloud vendor services to illustrate how cloud vendors can improve an app business. Finally, the tutorial will survey some of the cutting-edge practices in the field, and present some opportunities for future development.

Keywords: Cloud App; Big Data; Cloud Computing Systems; Cloud Architecture

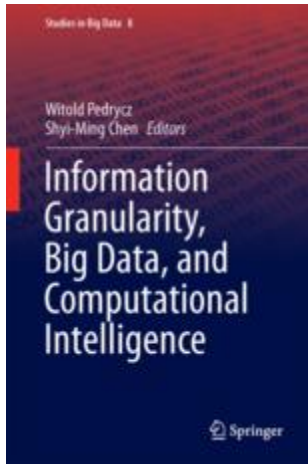
Biography of Instructor

Mehdi Bahrami is working in the Cloud Lab at the University of California, Merced and he is a senior member of the IEEE. He is a recipient of the achievement award in recognition of contributions to the field of Cloud Computing from the WorldComp congress 2014. He has more than 10 years of software industry experience and more than 5 years of teaching experience in the field of computer science. He has published several technical papers in the areas of Cloud Computing Architecture, Grid Architecture, and Software Architecture. He served as the editor-in-chief of Journal of Soft Computing and Software Engineering. He is an editor, reviewer for several international computer science journals, including Springer journals. He also served as a technical program committee member for several international IEEE computer science conferences. He served as featured speaker in several international conferences including IEEE conferences. He has extensive experience with software engineering and developing distributed software applications in diverse platforms, such as Web-based, Windows-based, and Android-based systems.

Tutorial materials are available at: http://cloudlab.ucmerced.edu/~mehdi/IEEE_SMC2014

URL: <http://cloudlab.ucmerced.edu/~mehdi/>

Reference:



Book Title:

Information Granularity, Big Data, and Computational Intelligence, W. Pedrycz and S.-M. Chen (eds.), Vol. 8

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