

Distribute one Billion

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Abstract: We live in a digital world estimated to host around 4.5 billion Internet users and 10 billion of mobile connections generating 2.5 billion billion of data every day. The global big data and business analytics market valued at 169 billion U.S. dollars in 2018 expects to grow to 274 billion U.S. dollars in 2022. Managing and extracting value from this sheer amount of raw data requires deep software analysis, such as deep learning methods with billions of configuration parameters using massive distributed and parallel computing infrastructures aggregating billions of cores and threads.



The talk gives an overview of the research activities at the University of Klagenfurt, Austria, on optimizing system software support for extreme-scale data processing applications. The focus will be on social media, entertainment and streaming, engaging over 3.6 billion people in 2020 and expected to grow to 4.41 billion in 2025.

Short Bio:

Radu Prodan is professor in distributed systems at the Institute of Software Technology, University of Klagenfurt. He received his PhD in 2004 from the Vienna University of Technology and was Associate Professor until 2018 at the University of Innsbruck, Austria. His research interests include performance, optimization, and resource management tools for distributed and parallel systems. He participated in numerous national and European projects. Presently he coordinates the Horizon 2020 project ARTICONF that researches a decentralized platform and ecosystem for next generation social media applications. He authored over 200 publications and received two IEEE best paper awards.