Special Issue

AI-Based Pervasive Application Services

Message from the Guest Editors

It is well known that generative AI has revolutionized our expectations of computer-generated results. However, significant barriers remain to their widespread application in everyday services for general households. Practical application services require explicit purposes and needs while considering computational resources, cost, user privacy, security, deployment, maintenance. It is a significant challenge to effectively match the continuous stream of advanced technologies with people's real-world needs to create widely adoptable application services. Additionally, for existing application services, there are significant challenges in effectively integrating emerging technologies to achieve upgrades and transformations. Evaluating and efficiently analyzing the next-generation application services' feasibility, appropriateness, utility, accuracy, and scalability are also critical issues. - Pervasive application services; - AI with multimodal data; - Generative AI for general households; - Application services for general households; - AI upgrades and transformations; - Evaluating and analyzing with AI; - Next-generation application services.

Guest Editors

Dr. Sinan Chen
Center of Mathematical and Data Sciences, Kobe University, Kobe 657-8501, Japan

Dr. Jialong Li
Department of Computer Science and Engineering, Waseda University, Tokyo 169-8050, Japan

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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