Graduate School of Information Science, University of Hyogo
13th International Research Seminar

FROM DATA TO DECISIONS: RESEARCH-DRIVEN DIGITAL HEALTH INNOVATION, CHALLENGES, AND THE ROAD AHEAD

Wed. 25 June 2025 (16:00 ~ 17:00) JST

ONLINE SEMINAR

This talk examines the evolving landscape of healthcare in the context of rapid digital transformation. It begins by framing the exponential growth of biomedical knowledge and clinical data, and the accelerating transition from Healthcare 1.0 to 5.0—a shift marked by increasing system complexity, automation, and interconnectivity. Against this backdrop, we highlight the urgent need to effectively leverage the vast volumes of data generated across the healthcare continuum.

Central to this discussion is the convergence of human and machine intelligence, not as a replacement, but as a complementary force to enhance clinical decision-making. The ethical dimensions of this integration, particularly with respect to explainability, bias, and generalizability, are also critically examined.

The talk will further explore systemic challenges in implementing digital health solutions, including technological fragmentation, organizational inertia, and data governance barriers. It concludes with selected achievements from our research team, demonstrating how evidence-based methodologies, systems thinking, and cross-disciplinary innovation can contribute to the development of scalable, ethical, and context-aware digital health technologies.

Guest Speaker

Abdelfatteh EL Omri

Senior Research Scientist,
Hamad Medical Corporation, Qatar

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Dr. Abdelfatteh El Omri is a senior research scientist, principal investigator, and recognized leader at the intersection of healthcare, environment, and technology. He is based in the Department of Surgery, Surgical Research Section at Hamad Medical Corporation (HMC), Qatar, where he leads the Systems Medicine and Clinical Decision Support Systems Research Team, and serves as an Adjunct Clinical Associate Professor at Qatar University.

Dr. El Omri holds a Ph.D. in Biosphere Resource Science and Technology from the University of Tsukuba, Japan. His multidisciplinary career spans academia, healthcare, and industry, with senior R&D and faculty appointments in Japan, Saudi Arabia, Tunisia, and Qatar. He has held key positions at RIBM Co. Ltd., Tsukuba Gene Technology Laboratories, Rohto Pharmaceuticals, King Abdulaziz University, Carthage University, Hamad Medical Corporation, and Qatar University.

His research focuses on precision health, clinical decision support, digital health, personal omics profiling, healthcare operations and lean management, bioassay development, and point-of-care diagnostics. He has played a pivotal role in the development and commercialization of healthcare technologies, including rapid diagnostic kits and high-throughput platforms, and has contributed to national healthcare strategies and cross-border technology transfer in Japan, Saudi Arabia, and Qatar.

With over 70 peer-reviewed publications, Dr. El Omri also serves as a reviewer and guest editor for leading scientific journals and is a frequent speaker and organizer at international conferences. He is deeply passionate about interdisciplinary research and firmly believes that true innovation emerges at the intersection of disciplines.

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https://shorturl.at/OjUoI

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