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Gharieb joined the department of communication systems, Toyama University, Japan from 6/1999 to 1/2000 as a postdoctoral fellow. He joined the lab for advanced brain signal processing, Riken Brain Science Institute, Wako-Shi, Saitama, Japan from 1/2000 to 8/2002 as a frontier researcher for conducting research on neuroscience and neuroinformatics. From 8/2004 to 8/2006, Dr. Gharieb Joined Infinite Biomedical technologies LLC, Baltimore, MD, USA as a senior scientist for conducting R&D of technologies for early quantitative diagnosis of ischemic brain injury following cardiac arrest and neonatal asphyxia and comma using EEG and EPs Technologies. From 11/2006 to 5/2008, he joined Fairway medical technologies INC. for conducting R&D on signal processing, computer tomography and laser optoacoustic imaging for breast and prostate cancer detection and treatment. Dr Gharieb is a senior member of the IEEE and an international reviewer for various peer-review international journals and conferences in his research interests. He authored and co-authored about 46 publications and a book chapter; three of his papers have been selected for paper of excellence awards. He coauthored one patent and has a software copyright. In 2002, Dr. Gharieb received the encouragement national prize awarded by the Egyptian academic of Science and technologies. In 2005, he was classified as a scientist of extraordinary ability in USA. His research fields cover a broad area of computer science, electrical and biomedical engineering. He is interested in developing innovative bioinstrumentation technologies, signal processing, statistical learning and computer modeling oriented technologies for neurological and cognitive disorders, BCI prosthetic and robotic devices, fuzzy and photoacoustic medical applications.