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An experienced manufacturing process control/automation researcher, and R&D manager for thirty years. He is an electrical engineer with a Ph.D. degree in process automation and control. Lately, he has engaged in frontier Industry 4.0 technology development to develop a Cloud based glass coating process optimization system. His expertise includes, model-based process control system design, advanced sensor technology for manufacturing, process network and enterprise-wide database systems, Cloud computing system for manufacturing processes and modeling, High power/high frequency microwave heating technology, and advanced statistical analysis and modelling. His process control related expertise crosses all glass related manufacturing processes from flat glass, glass coating, and automotive glass. He has been awarded 22 patents and authored 25 technical articles. Before retirement, he was also Corporate Fellow and Research Fellow for PPG Industries Inc. and Vitro Glass respectively.