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STRUCTURAL HEALTH MONITORING OF BRIDGES USING DYNAMIC RESPONSES FROM MOVING VEHICLES

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ONLINE MODE

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Dr. K. Lakshmi is Senior Principal Scientist at CSIR-SERC (Chennai) and Assistant Professor at AcSIR (SERC). She specializes in structural dynamics, system identification, vibration and structural health monitoring (SHM), inverse problems, nature-inspired computing, and metaheuristic optimization in computational structural mechanics. She has received several awards and recognitions, including the IAStructE outstanding women Structural Engineer 2023, SEERMIGHU PORIYALAR AWARD and several other laurels. Dr. Lakshmi has developed advanced computational tools for SHM, optimal sensor placement, system identification, damage diagnosis and sensor fault detection. Her work focuses on detecting, isolating, and quantifying incipient damage in civil structures with several completed research projects, she is currently engaged in developing indirect SHM techniques using vehicle-scanning methods to assess modal properties and detect damage in bridges.