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## **BIOSKETCH**

*Charbel Farhat* is the Vivian Church Hoff Professor of Aircraft Structures at Stanford University, where he is also Chairman of the Department of Aeronautics and Astronautics, Professor of Mechanical Engineering, Professor in the Institute of Computational and Mathematical Engineering, Director of the Army High Performance Computing Research Center, and Director of the King Abdullah City of Science and Technology Center of Excellence for Aeronautics and Astronautics. He currently serves on the United States Bureau of Industry and Security's Emerging Technology and Research Advisory Committee (ETRAC) at the United States Department of Commerce, on the United States Air Force Scientific Advisory Board (SAB), and on the Space Technology Industry-Government-University Roundtable. He has previously served on the technical assessment boards of several national research councils and foundations. He was designated by the US Navy recruiters as a Primary Key-Influencer and flew with the Blue Angels during Fleet Week 2014.

Professor Farhat holds a Ph.D. in Civil Engineering from the University of California at Berkeley. He is a Member of the National Academy of Engineering, a Member of the Royal Academy of Engineering (UK), a Member of the Lebanese Academy of Sciences, a Docteur Honoris Causa of Ecole Normale Supérieure Paris-Saclay, a Docteur Honoris Causa of Ecole Centrale de Nantes, a designated ISI Highly Cited Author in Engineering by the Institute for Science Information (ISI) Web of Knowledge, and a Fellow of six professional societies: the Society of Industrial and Applied Mathematics (SIAM), the American Society of Mechanical Engineers (ASME), the International Association of Computational Mechanics (IACM), the World Innovation Foundation (WIF), the United States Association of Computational Mechanics (USACM), and the American Institute of Aeronautics and Astronautics (AIAA). He was knighted by the Prime Minister of France in the Order of Academic Palms and awarded the Medal of Chevalier dans l'Ordre des Palmes Académiques. He is the recipient of several other professional and academic distinctions including the Lifetime Achievement Award from the ASME's Computers & Information in Engineering Division, the Spirit of St Louis Medal from the ASME's Aerospace Division, the AIAA Ashley Award for Aeroelasticity and the Structures, Structural Dynamics and Materials Award from the AIAA, the John von Neumann Medal, Computational and Applied Sciences Award and R. H. Gallagher Special Achievement Award from the USACM, the Grand Prize from the Japan Society for Computational Engineering and Science (JSCES), the Gauss-Newton Medal, IACM Award, Computational Mechanics Award and Computational Mechanics Award for Young Investigators from the IACM, the Gordon Bell Prize and Sidney Fernbach Award from the Institute of Electrical and Electronics Engineers (IEEE) Computer Society, the Engineer of the Year Award from the AIAA Rocky Mountain Section, the Modeling and Simulation Award from the Department of Defense, the IBM Sup'Prize Achievement Award, the Aerospace Structures and Materials Best Paper Award from the ASME, the Arch T. Colwell Merit Award from the Society of Automotive Engineers (SAE), the CRAY Research Award, a TRW fellowship, the United States Presidential Young Investigator Award from the National Science Foundation and the White House, and the PACER Award from the Control Data Corporation.

Charbel Farhat is also Editor-in-Chief of the International Journal for Numerical Methods in Engineering, Editor of the International Journal for Numerical Methods in Fluids, and a member of the editorial boards of nine other international scientific journals. He has been an AGARD lecturer on aeroelasticity and computational mechanics at several distinguished European institutions, and a plenary or keynote speaker at numerous national and international scientific meetings. He is the author of over 400 refereed journal publications on fluid-structure interaction, computational fluid dynamics on moving grids, computational structural mechanics, computational acoustics, supercomputing, parallel processing, and model order reduction. His research program has been and is currently funded by several government and private agencies including the National Science Foundation, the Air Force Office of Scientific Research, the NASA Langley Research Center, the NASA Ames Research Center, the NASA Lewis Research Center, the Naval Research Laboratory, the Office of Naval Research, the Department of Energy, the Sandia National Laboratories, the Defense

Advanced Research Projects Agency, the Boeing Company, the FMC Corporation, the Lockheed-Martin Corporation, High Performance Technologies, the Toyota Motor Corporation, TRW, the King Abdullah University of Science and Technology, and the King Abdulaziz City of Science and Technology.